

PRICE 15 CENTS.

SEPTEMBER 29, 1894.

THE
AMERICAN ARCHITECT
AND BUILDING NEWS

VOL. XLV.

* REGULAR EDITION *

NO. 979.



ARCHITECTURE

ENGINEERING

DECORATION

211 TREMONT ST.

CONSTRUCTION

BOSTON MASS.

CONTENTS.

EDITORIAL SUMMARY.
THE INFLUENCE OF THE HANSEATIC LEAGUE ON THE ARCHITECTURE OF NORTHERN EUROPE.—I.
NOTES ON STABLE BUILDINGS IN LONDON.
LETTER FROM CANADA.
SOCIETIES.
COMMUNICATIONS.
EXHIBITIONS.
NOTES AND CLIPPINGS.

OTHER DETAILS OF THE SAME: TWO SHEETS.
[Issued with the International and Imperial Editions only.]
DESIGN FOR A COUNTRY HOTEL.
[Issued with the International and Imperial Editions only.]

ILLUSTRATIONS.

THE HOTEL JEFFERSON, RICHMOND, VA.
DETAILS OF THE SAME: TWO SHEETS.

Additional Illustrations in the International Edition.

NORTH CENTRAL PORCH OF THE FINE ARTS BUILDING,
WORLD'S COLUMBIAN EXHIBITION, CHICAGO, ILL.
[Gelatine Print.]
A VILLA IN THE ENVIRONS OF PARIS.
[Copper-plate Etching.]
LONDON AND SOUTHWESTERN BANK, HOLLOWAY, LONDON,
ENG.
COTTAGE, BRIMSCOMBE, GLOUCESTERSHIRE, ENG.
GIEN LODGE, MIDLOTHIAN, SCOTLAND.



and back four times, over the hottest part of the fire. The amount of radiating surface thus secured is enormous, and the simplicity and economy of the apparatus are equally remarkable.

Write for our book, entitled "Hot-Water Heating," which in a concise form gives the full explanation of the principles of hot-water heating, together with all the practical data necessary to guide one in making a choice of apparatus. Mailed free.

Three-Fifths OF A TON OF COAL

Per room kept the 25 rooms of this house at 70° all winter.

Fifteen tons of coal in all, and every room at 70° all the time.

It was done with a Hub Hot-Water Heater—the most powerful apparatus ever made.

A CLANCE AT THE CUT

shows the secret of this Heater's phenomenal power. The sections overhang each other, the circulation being from the sides to the centre



SMITH & ANTHONY COMPANY,

48 to 54 Union Street, BOSTON.

56 Beekman Street, NEW YORK.

217 Lake Street, CHICAGO.

The Best Galvanized Iron

ought not to require specification, for a first-rate job of difficult work can't be done without it, and a first-rate job costs less with it than an honest attempt at a first-rate job without it.

Every first-rate metal-worker probably knows that Apollo is true to gauge and flat and bendable.

It is of some little account that the top and bottom sheets of a bundle are cushioned against the bands; and so are delivered almost without blemish, just as the top and bottom sheets protect the inside sheets from the bands in other makes.

Apollo Best Bloom is the trade-mark. It costs a little more in large quantities. This is the only reason that other galvanized iron is sold at all.

APOLLO IRON AND STEEL CO

PITTSBURGH PENNSYLVANIA

WORKS AT APOLLO

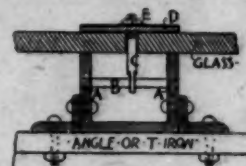
G. BICKELHOUP, PATENT



METALLIC
SKY-LIGHT
WORKS.

242 and 245 West 47th Street, New York.
Telephone: 675 39th St. a few doors west of Broadway.
Send for Catalogue.

PARADIGM SKYLIGHTS



See our full page ad. of June 2, 1894.

PARADIGM CONSTRUCTION COMPANY,
41 Pine Street, New York.

VAILE & YOUNG'S Patent Metallic Skylights.



Without Putty.
Construction adapted to all forms and styles of Skylights. Thousands of feet in use have proved its superiority. Particularly adapted for Depots, Mills, Factories, etc., where large and continuous lights are required.
Send for Illustrated Catalogue.

216 N. Calvert St., Baltimore, Md.

THE AMERICAN ARCHITECT AND BUILDING NEWS.

VOL. XLV.

Copyright, 1894, by the AMERICAN ARCHITECT AND BUILDING NEWS COMPANY, Boston, Mass.

No. 979.

Entered at the Post-Office at Boston as second-class matter.

SEPTEMBER 29, 1894.

CONTENTS.

SUMMARY:—

A Party-wall Decision.—The Building Statistics of Philadelphia.—The New York City-hall Competition.—Labor Day the Symbolization of the Power of the Walking-delegates.—Terrorism the Tool of the Labor Organization.—The Annual Convention of the A. I. A.—Proposed Aeronautic Congress.—The Progress of Ballooning in European Countries.—The Scouring of the White Horse.	113
THE INFLUENCE OF THE HANSEATIC LEAGUE ON THE ARCHITECTURE OF NORTHERN EUROPE.—I.	115
NOTES ON STABLE BUILDINGS IN LONDON.	117
LETTER FROM CANADA.	118
SOCIETIES.	119

ILLUSTRATIONS:—

The Hotel Jefferson, Richmond, Va.—Details of the Same: Two Sheets.—Other Details of the Same: Two Sheets.—Design for a Country Hotel.	
Additional: North Central Porch of the Fine Arts Building, World's Columbian Exhibition, Chicago, Ill.—A Villa in the Environs of Paris.—London and Southwestern Bank, Holloway, London, Eng.—Cottage, Brimscombe, Gloucestershire, Eng.—Glen Lodge, Midlothian, Scotland.	119

COMMUNICATIONS:—

An Architectural Exhibition at the South.—Beware of Undertaking "Church Work."	120
EXHIBITIONS.	120
NOTES AND CLIPPINGS	120

A PARTY-WALL decision was rendered recently by the Massachusetts Supreme Court which has a certain interest. An owner, whom we will call A, having occasion to increase the height of his building, was obliged, under the statute, to increase the thickness of the walls, which he did by lining them up with brickwork. On the walls thus thickened he built an addition, increasing their height. His neighbor, B, subsequently raised his own building, using, for his upper stories, the new part of the party-wall constructed by A. Thereupon A demanded that B should pay him, not only the value of half the wall that he used, but also that of the strip of land comprised between the old boundary-line of the lots, which was, presumably, in the centre of the original wall, and the centre-line of the wall as modified by the addition to the thickness, which had been made wholly on A's land. To put the case more definitely, supposing that the wall was originally twelve inches thick, with the party-line in the centre, and that A had been obliged to make it twenty inches thick by adding an eight-inch lining on his own side, he wished B to pay him for the strip of land four inches wide comprised between the centre line of the twelve-inch wall and that of the twenty-inch wall. B declined to accede to this demand, which, so far as we have heard, no one in Boston ever thought of making before, but offered to pay half the cost of the new wall that he was using. A carried the case to the Supreme Court, which gave a decision entirely in accordance with the common practice, to the effect that "there is no implied obligation on the part of a land-owner to pay for additions to a party-wall where the addition is built on the land of one owner, even though it thickens and strengthens the wall"; saying further that "it does not make any difference if the defendant uses so much of the wall as is on his own land to increase the height of his building." Most architects have been occasionally impressed with the one-sidedness of a usage, by which a man who owns perhaps six inches of a wall which has been increased to twenty inches or so by additions on his neighbor's side of the line can use the altered wall on exactly the same terms as if it occupied ten inches of his ground, instead of six; but the confusion which would result from making the boundaries of a man's estate depend on the additions which his neighbors might from time to time choose to make on their side of the party-walls would be so enormous, that the profession, at least, has reason to rejoice at the Court's decision.

THE building statistics of Philadelphia show very clearly the depression in business during the past two years. Philadelphia is renowned for the immense number of houses erected within its limits, about thirty a day being finished and handed over to their owners, but the average cost per house is small, as compared, for example, with the average cost in New York. In 1892, buildings to the value of about twenty-four million dollars were erected in Philadelphia; in 1893, the value was twenty-three and one-half millions; in 1894,

counting to September 1, which closes the official building year, the total is more than four millions less than in 1893. This makes a shrinkage in building business in the city in two years, of nearly eight million dollars, or about thirty per cent, which, as an average, means loss of employment and wages to thirty out of every one hundred workmen in the building-trades, from those employed in making brick, or cutting lumber, down to the hod-carrier on the actual work. The condition in other large cities is probably about the same, although in Philadelphia, as elsewhere, there are signs of returning prosperity.

IN an answer to certain questions relating to the New York City-hall competition, propounded at the request of a number of competitors who have requested us to take action in their behalf, we have received from Mayor Gilroy the response that he is "unable to answer the questions for the Commission. It will require the Commission, or a majority of it, to settle the points in dispute." He thinks they "ought to settle it as promptly as possible and will call a meeting of the Building Commission for the purpose as soon as possible."

MR. E. C. GARDNER'S remarks about Labor Day, in our last issue, might, we think, profitably suggest an inquiry whether the holiday itself, the very name of which should make every true American blush, ought not to be abolished, or, at least, transferred to the protection of some American saint or hero, in place of the walking-delegates to whom it is now dedicated. To say nothing of the absurdity of trying to make distinctions between the different sorts of "laborers" in this busy nation, every one knows that the establishment of the "Labor Day" holiday was extorted from State Legislatures by the relentless tyrants who rule over working-men, partly to terrify their subjects, by showing them their power over legislation, and partly to secure an opportunity for terrifying the legislators themselves by parading their servile armies through the streets of the great cities. To increase the effect of their demonstrations of this kind, measures are, according to common report, taken which are quite characteristic of the system. In some of the Unions, to be absent from the Labor-Day procession, or to work on that day, is said to lead to the expulsion of the delinquent, and the withdrawal of the ticket which, in these days, is necessary to entitle a working-man to earn an honest living. What this punishment means is well illustrated by the case of a working-man who killed himself in Boston last Labor Day, or just before, because he had been expelled from his Union, perhaps for such a crime, or for the still more heinous one of working in the shop with a "scab," and had, in consequence, been unable to earn a support for his family. It has been observed that the Labor-Day processions of ticket-bearers have fallen off in numbers of late years, as if the people who earn their living by the grace of the labor magnates were not fond of exhibiting their bondage; and this state of mind is much to be encouraged. When a few hundred more men have committed suicide, or have had their skulls crushed with coupling-pins, or hounded into beggary, for disobedience to the labor tyrants, it may possibly occur to some one to see how a procession of "scabs" would look alongside the favorites of Labor-Day legislation. It would not do to expect too much from men who know that their oppressors hold employers and Legislatures under their thumb; but, if the element of fear could be removed, the "scab" procession would outnumber the other many times over, and would contain the best, because the most independent and ambitious part of the workingmen. To our mind, the Fourth of July would be an appropriate day for such a demonstration, and the Stars and Stripes should be the only flag displayed in it.

WE sometimes hear people speak with incredulity of the idea that the industrial community in America can be ruled so absolutely by the comparatively small number of magnates who control associations, comprising, even in the cities, only about fifteen per cent of the actual number of working-men. These people underrate, not only the systematic terrorism by which the labor magnates secure obedience to their decrees, but the immense power that can be acquired

by a small, compact body of men, working constantly and unscrupulously together for their common ends. Sir Arthur Helps, in his "*Friends in Council*," speaks of the assistance which a person who wishes to get on in life derives from membership in a small association, especially one of a religious character, whose members all know each other, and help to push each other forward; and the way in which the Government of the British Empire revolves around a little knot of representatives of a constituency smaller than the population of London shows what can be accomplished by a small political force, judiciously handled, and with only one interest to look out for. With us, the body of voters who would not dare to brave the disfavor of a walking-delegate is, in most cities, a large one, and "Labor," in the person of the wily plotters who contrive to put themselves at the head of organizations of working-men, can have from Legislatures almost any favors that it asks.

IF architects were not perforce and professionally nomadic in their habits, it would be conceivable that the members of the American Institute of Architects would just now be looking forward with keen interest to the annual convention which is to be held in New York next month, as it would afford them a chance of inspecting the work done in that city in the eight years that have passed since the annual meeting was last held in the metropolis. But we fancy that there can be but a small number, even of those settled in the more remote towns, who have not visited New York several times within this period and noted how thoroughly the city has lost its gloomy and forbidding air, due to the habitual use of Connecticut sandstone which used to give the streets the air of being in the livery of "mitigated grief." Still, even for those who frequently visit the city, there has been enough new work done, even in the current dull times, to make the usual touring trips interesting and profitable. Moreover, there are several matters of considerable importance to come before the convention, which are likely to provoke a good deal of discussion—for instance, the matter of the Government buildings and the proper function of the Supervising Architect, which is just now in a very interesting, and, perhaps, critical state. It is probable, therefore, that there will be more architects than usual in attendance, and that from one cause or another those who can spare the time to attend the meetings are likely to find they have spent their time and money to rather better profit than usual.

SIGNOR ANGELO NESTORE GUGLIELMINETTI, of Naples, has been impressed with the very sensible idea that, inasmuch as a great many people are now at work, in various parts of the world, on the problem of aerial navigation, and, for the most part, are carrying on their investigations without knowing what others are doing in the same direction, a great deal of time might be saved for them all, and the object for which they are working immensely promoted, by getting them together, and giving them an opportunity to compare their experiences, make and receive suggestions for avoiding difficulties which have been proved to be insurmountable, and examine the appliances and materials which industry now makes available for their purpose. For this purpose, he proposes that an international Congress of aerostatics and aeronautics shall be held at some place to be hereafter determined, to which all persons interested in the navigation or scientific investigation of the air shall be invited, and where the experiments which have been made in many parts of the world, with more or less success, shall be repeated and explained, papers read on different branches of the subject, and an exhibition held of silks and other gas-tight fabrics; cordage of the utmost strength and lightness; compasses and other instruments adapted for the navigator of the atmosphere; motors, propellers, engines, boilers, electric accumulators, and other machinery designed to combine to the utmost strength and lightness; gas-holders; compressors, and so on.

IT is hardly necessary to point out how greatly such a Congress would hasten the progress of the science of aeronautics. In view of what has already been done, it may be considered certain that, before many years, the navigation of the sea which has the whole world for its port of departure and arrival, in which there are no reefs, or sand-bars, or waves, or tides, and where collisions would be almost impossible, will be as firmly established as the navigation of the ocean now is; and the race between skilful inventors to be the first in the

field with a practicable air-ship is already keen. More secretly, also, the rival military administrations of the great Continental nations are making strenuous efforts to surpass each other in the adaptation of the sciences of the atmosphere to the uses of war. The Russian War Office maintains already a regular department of aeronautics, and the brilliant results obtained by Lieutenants Renard and Krebs, of the French army, at their experiment station, are familiar to all the world. That the German officers, meanwhile, have not been far behind is sufficiently attested by a diplomatic note which is reported to have been recently sent by the Russian to the German Government, complaining that, on two occasions, an air-ship of some sort had been observed to ascend from within the German territory, cross the frontier into Russia, and, after moving about for a while in the Russian dominions, return to Germany. Although diplomatic representations seem to have sufficed to check subsequent excursions of the sort, it is reasonable to suppose that, in case of war between Russia and Germany, the voyages of the Teutonic balloons would be resumed, and the advantages which they afford for inspecting Russian affairs without the permission of the police utilized to the utmost; and what the Germans seem to be ready to do, and the Italian officers in the Abyssinian War have already done, other people will surely attempt. Even the Japanese, whose keenness of observation makes up, to a great extent, for their lack of scientific tradition, might now contrive means for sending a flight of dynamite projectiles soaring through the air from the Gulf of Pechele toward Peking; and the opportunities, which are constantly growing more numerous, for crossing frontiers without passports, are sure to be made available when occasion offers. Under such circumstances, the only protection against the superior knowledge of a rival is to know as much as he, and we may be sure that a Congress of aeronautics would attract the liveliest attention from all the great military powers, as well as from the peaceful public. Naturally, further details of the Congress will have to be left for future discussion. The first thing is to know whether such a Congress is practicable, and, for this purpose Signor Guglielminetti requests all persons who would be willing to take part in such an affair, to attend its meetings, or send notes of their experiments, or drawings, or models, or samples of materials, or to give to it their aid and countenance in any way, to send him their names and addresses. If his appeal meets with an encouraging response, he proposes to exert himself still further, in making personal application to manufacturers and inventors, and in other ways arranging the laborious preliminaries of such an undertaking; if not, he will be content, as he says, with the satisfaction of having made an attempt, even though an unsuccessful one, to furnish the science of aerostatics with the means of emerging from its present rudimentary state. No promise or engagement of any kind is asked from those who send their names; all that is desired at present is to see how far such a plan will be encouraged by those interested in the subject. Later, if the response to the invitation warrants it, the list of those who send their "adhesion" now will undoubtedly be published, as a help in attracting additional support; and further details will probably then be proposed, for approval. Those who are willing to lend the encouragement of their names to this most promising undertaking are earnestly requested to send their names and addresses to Signor Angelo Guglielminetti, Boscotrecase, Naples, Italy.

SOME of our readers probably remember Mr. Thomas Hughes's book, "*The Scouring of the White Horse*," and others have perhaps seen the White Horse itself, which is still visible from the Great Western railway, not far from Oxford. The White Horse is a figure cut through the turf, to the chalky subsoil, on the side of a hill. The figure is three hundred and fifty-five feet long, and one hundred and twenty feet high. It is known, by documents, to have been in existence for eight hundred years, and is said, according to the common tradition, to have been cut to commemorate the victory of Alfred the Great over the Danes at Ashdown. Mr. Hughes, however, who, by the way, is now a judge, thinks that the figure dates far beyond Alfred's time. At present, the horse is nearly overgrown with weeds, and Judge Hughes appeals to the public to contribute money for "scouring" it, and keeping it scoured. As the cost of clearing away the weeds is only about fifty dollars, no great exertion on the part of the public would be needed, so that it is to be hoped that the appeal may be successful.

THE INFLUENCE OF THE HANSEATIC LEAGUE ON THE ARCHITECTURE OF NORTHERN EUROPE.¹—I.

St. Nicholas's, Stralsund.

St. James's, Stralsund.

EARLY in the present session, in a paper written by Mr. Wm. Simpson, in continuation of several communications he had before made on the same subject, published in our transactions, the attention of the Institute was directed to certain peculiarities of architectural detail imported into one style from another wholly alien to it, practised in a far distant country, and belonging to an age long anterior to the date of the buildings in which they were found. We were invited to see in these works evidence of Classical influence in suggesting or modifying details of Indian architecture; and our attention was called to many interesting coincidences and similarities for which it was very difficult to account, but almost impossible to show to be the result of external instigation. To-night, however, I propose to deal with a question of artistic influence, more tangible, and scarcely less interesting than that suggested by Mr. Simpson—an influence which went far to mould or modify the architecture of Northern Europe, and to which much of the richness and beauty of the Northern Renaissance, now so frequently reproduced by the members of our profession, is due. My paper, therefore, will not be an account of how one distinct and alien style affected another, but its object will be, rather, to show how the living and progressive styles of succeeding periods became transformed by the necessities or peculiarities of an influential and semi-political association of merchants who inherited and carried on the traditions of the earlier German schools at a time when German architecture was, to quote the recent address by Sir Frederic Leighton,² "stamped with a stateliness and nobility to which the days of the Minnesinger were surely more propitious than those of the rugged burghers who were soon to rise to power and to rule in the art-producing world."

In the course of several visits it has been my good fortune to pay to the lands about the Baltic Sea, I have been much impressed by the similarity existing between the buildings, however widely they were scattered, and however divided were the provinces by ethnographic or political differences. In other countries more or less homogeneous in their governments and people, such as France or Spain, strong local differences in style always existed; but over the vast area of Northern Europe which stretches from the sand-dunes of the English Channel to the granite islands of the Gulf of Bothnia, there can only be said to have been one style carried on throughout the Middle Ages—a style quite dissimilar to those of the rest of the Continent, and executed with a uniformity of detail, marking a distinct and complete school. There is nothing in the geological conditions of the countries to account for such coincidences; and the similarities, so obvious, were evidently due to other than merely geographical or political accidents. The history of these countries during the tenth and eleventh centuries, as told in such sagas as the Jomsykinga Saga,³ is little more than a catalogue of wars and sieges; and when, later, the power of the Hansa League became dominant, this authority was only maintained, outside the limits of its own States and settlements, by constant fighting. At no time were those States over which the power of the League became paramount ruled by any united Government, whilst the racial differences were as marked from the earliest period of authentic history as they are to-day. Whence, then, came the force which welded into one

architectural province countries divided by continuous warfare, by distinctions of race and by language?

The origin of this architectural uniformity is due to causes different from those which have ruled in other lands; and the secret of it was suggested in a paper read before the Institute in 1850 by Mr. Charles Fowler, Jr.,⁴ in which he says, quoting from Kugler's *Kleine Schriften*: "The Germanic style is developed in a peculiar manner, on the coasts of the Baltic, and in some of the adjoining districts of Germany, viz. Holstein, Mecklenburg, Pomerania, the Old and New Mark Brandenburg, Prussia, Curland, Liefland, and also in the Skandinavian countries. These countries were connected and very much influenced by the confederation of the Hansa towns, and it is probably to this influence that we may ascribe much of the similarity of style visible in the buildings of the districts referred to." Rosen-garten⁵ goes farther, and says: "A certain uniformity is peculiar to these buildings, which is owing principally to the influence of the Hanseatic League, but partly to the power and authority of the Teutonic Knights."

No attempt to follow up the clues pointed out as leading to the solution of this architectural problem seems to have been made, and the subject is too large and the countries involved too extensive and scattered for any one architect still engaged in practice, to deal with in anything like an exhaustive way. But feeling that it is a subject which should not be neglected, I have now made an attempt to put together such information as I have been able to acquire, with the idea of sketching the outline of a theory, to be filled in and corrected hereafter by those who have further information or personal acquaintance with the buildings. It has already been my privilege to call the attention of the Institute to some of the Baltic provinces,⁶ though I had to lament that so little published information was available on the subject. I therefore feel the less diffidence in contributing the little knowledge I have gained towards the history of what Kugler so aptly calls the "Baltic style."

At the risk of reciting some facts which must be known to many of you, without the knowledge of which, however, the subject might be unintelligible, I propose to give, as succinctly as possible, a history of the rise and progress of the League, and afterwards an account of the characteristics of the Baltic style, together with some of the most marked features in its arrangements and details; and, later, to endeavor to show in what way it affected the architecture of surrounding countries, and how far the influence of the later phases of the style still survives. But, although I shall instance peculiarities which I consider due to the influence of the Hansa, I at once disclaim any thought, with my present incomplete knowledge, of laying before you any definite and perfected theory, or of riding an architectural hobby to death.

The Hansa League was an association first of individual merchants, and later of merchant cities, which came to exercise considerable political power over all the countries bordering on the Baltic Sea. The word itself is Gothic, and is found in the Gothic version of the Scriptures by Ulphilas, a copy of which is preserved in the library at Upsala, wherein it is used to signify a "troop."⁷ The use of a Gothic word for the League's description is easily understood when one remembers how important a part merchandise played among the Scandinavian peoples, and that the great city of Jomsborg, called also Winetha, the Venice of the North, was founded by Harald of Denmark in the tenth century, and became the earliest great trading port and market of the Baltic coasts.⁸ I have prepared a chronological table of the principal events connected with the rise and progress of the League, which forms a compendium of its history, from which it will be seen that for a long period there were associations of German merchants to whom were accorded special privileges in various countries, but that it was not until the middle of the thirteenth century that the League became a political entity. The history of the League, therefore, divides itself into two portions—the earlier times, when it was simply an association of traders, during which period the merchants of Cologne appear to have taken the lead; and the later period when, by force of circumstances, the cities of the Baltic coast had been compelled to unite for political purposes, and Lübeck became the head and chief of the whole League. Thenceforth the history of Lübeck becomes the history of the Hansa.

The City of Lübeck was founded in 1143, and a few years later it was incorporated with the Duchy of Saxony. Its rapidly growing importance, due to its position at one end of the landway from the Baltic to the North Sea, induced Duke Henry to transfer to it from Oldenburg, the seat of the bishopric, and in 1164 the first cathedral, portions of which still remain, was consecrated. The destruction of Jomsborg, at the mouth of the Oder, which scattered the merchants of that city among the towns of Wendland and Pomerania, still further enhanced its importance, and in 1226 it was declared by the Emperor Frederick II a free Imperial city. Immediately afterwards it became engaged in a contest with Denmark, and defeated its fleets and destroyed its naval supremacy in an engagement at the mouth of the Trave. But, in spite of this, the position of Lübeck was insecure, and it suffered from land thieves, who preyed

¹ Read at the general meeting of the Royal Institute of British Architects, Monday, May 28, 1894, by J. Taverer Perry, [A] and published in the *Journal* of the Institute.

² Address to the Royal Academy Students, December 9, 1893.

³ Du Chailu, "The Viking Age."

⁴ "Medieval brick buildings in the northeast of Germany, and on the Baltic coast." *Transactions*, 1873-74.

⁵ Rosen-garten's "Handbook of Architectural Styles," English trans. London, 1896, p. 339.

⁶ *Transactions*, 1873-74, pp. 15-31.

⁷ "Encyclopedia Britannica," art. "The Hansa."

⁸ Sharon Turner, "Anglo-Saxons"; also Du Chailu.

upon its commerce and intercepted its communications with Hamburg, which were essential to its free access to the North Sea; and a treaty was made between the two cities for the protection of the ways between Travemünde and the mouth of the Elbe in 1241, and this treaty inaugurated the second period of the League, and the supremacy of Lübeck among the cities of the League became firmly established.

Within a few years of this arrangement between Lübeck and Hamburg, the power of the League was felt all over the north of Europe. A treaty was made with Hakon, of Norway, for the trade with Bergen, and storehouses were erected in London and Bruges. At Damme, the important port of West Flanders, we find Roger of Lübeck and Jourdain of Hamburg negotiating for special privileges for the League;¹ and in 1267, London on the one side, and in 1276 Novgorod on the other, became cities allied to the League. The first serious rebuff the League encountered was in the capture by the Danes in 1361 of Wisby, a city which to a great extent had succeeded to the position of Jomsborg, in the eastern Baltic; but this war with Denmark tended still further to consolidate the power of the League, and, on the signing of the treaty of Stralsund in 1370, it attained the zenith of its power. At this date it is believed that as many as sixty-four cities and towns were confederated, and forty-four in foreign States were allied.

In the long list of these places, of which I have prepared a table, it will be seen that nearly all the confederated towns are to this day storehouses of architectural art; and that, although wars in Old Russia and Metropolitan improvements here, have swept away all buildings of the League in Novgorod and London, in most of the allied towns evidences are yet apparent, in the architectural details or character of the buildings, of the influence exercised over the people of these foreign places by the merchants of the League.

The relations which existed between the League and its confederate and allied towns were peculiar. Over the former, in spite of independent princes who reigned over the States in which the towns were situated, its rule was more or less absolute; for cities, in order to enter the League, were required to have their civil jurisdiction in their own hands, though they were allowed to acknowledge a superior lord;² but the allied cities only received colonies, or settlements, or were visited from the head settlement, or Kontor, by the merchants trading under the auspices of the League, with special privileges, either conferred by the rulers of these foreign States or wrung from them by its power. The foreign settlements which formed the great emporia of the trade were London, Bruges, Bergen and Novgorod, and the history of the foundation of each of these settlements is interesting. In these the merchants lived apart from the native population in almost conventual seclusion, but their mode of living was rather founded on the rules of the earlier Scandinavians than on those of later monasticism. Thus Jomsvykinga Saga states that Pálnatóki, the Jarl of Fjon, who founded the city of Jomsborg in Wendland, ordered that "no man older than fifty, or

should have a woman within the burgh, or be absent from it more than three nights."³ In Bergen and Novgorod, where the merchants found themselves settled among a more or less hostile population, such rules as these were strictly enforced; but in London and

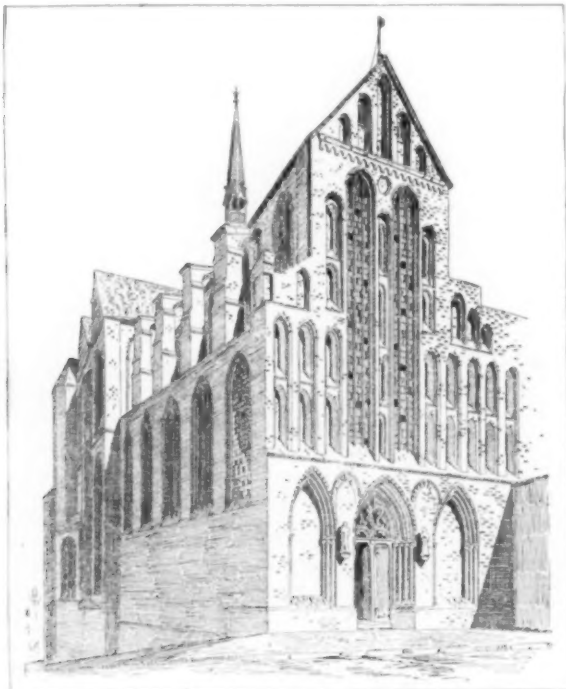


Town-hall and St. Nicholas's, Stralsund.

Bruges, where their neighbors were friendly and not altogether alien in race, they appear to have entered into the duties, as well as the privileges, of civic life.

The history of the London Hansa, the last traces of the buildings of which were only destroyed when the Cannon Street Railway Station was erected, is particularly interesting. It would seem that when Henry III, in 1259, confirmed the already granted privileges of the League, or in 1267, when Lübeck and Hamburg were acknowledged as the heads of it, the merchants were required, in return for their civic advantages, to perform certain civic duties. These appear to have been mainly the repairs and protection of Bishop's Gate, which they were required not only to maintain in structural repair, but to defend, if London were attacked by an enemy. That these duties were not merely honorary is shown by an event which happened in 1281, when, "Henry Wales being mayor, a great controversy did arise between the said mayor, and the merchants of the Haunce of Almaine, about the reparations of Bishop's Gate, then likely to fall, for that the said merchants enjoyed divers privileges in respect of maintaining the said gate, which they now denied to repair," with the result that they had to pay 210 marks sterling for the repair of the gate, and undertake to pay one-third of the future costs of its maintenance.⁴ This gate was again rebuilt in 1479, and in 1551 the merchants were preparing materials for its rebuilding when the League in England was dissolved.⁵

The establishment of the League in Bruges, where some of its buildings still remain, was not unlike that of London, and the members of it associated more or less with the citizens; but those of Bergen and Novgorod were very different. In them the Jomsborg rules were strictly adhered to, and the surrounding population kept at arm's length. In both of these cities the merchants lived apart in a walled enclosure, which also contained their church, and within which they exercised despotic sway over their own servants and apprentices. Novgorod, which was perhaps the richest and most important of the foreign stations, was the envy of the neighboring Muscovites, so that their saying ran, "Who can withstand God and the great Novgorod?" But it was destroyed by Ivan the Terrible, when he captured the city in 1477. The buildings of the settlement of Bergen, however, to a great extent remain. When complete they formed a long range of warehouses and lodgings on the north side of the haven, the site of which is still called "the German bridge," connected with their own Church of St. Mary, which had two west lofty gabled towers and a polygonal apse without chapels.⁶ Within their enclosure they ruled by their own statutes, independent of the Norwegian laws; and such authority did they assume over the native



St. Katherine's, Lübeck.

younger than eighteen winters, could be received in the following of Pálnatóki." "Any one who committed what has now been forbidden, was to be cast out and driven from the community." "No one

¹ "Histoire de la Ville de Damme." By L. Macquet.

² "Antiquary," vol. iv, p. 69.

³ Du Chailly, "The Viking Age."

⁴ Stow's "Survey of London," Thoms' ed. 1842, p. 87.

⁵ Pennant.

⁶ "Civitates Orbis Terrarum," 1572.

population that, in 1455, when a dispute arose between them and the citizens as to some trading between the Flemings and the latter, they attacked the king's governor, and, driving him and his people into a church, burnt them and it together. The Norwegian king was not only too powerless to resent this turbulence, but was compelled to confirm the League in its privileges, by an order that no Flemings should trade with Bergen.¹

Such high-handed proceedings in foreign countries provoked retaliation, and from 1450 to 1550 we find the League at constant war with surrounding States; at the same time, the growing importance of the trade carried on by the English and Flemish merchants gradually undermined its power, and at the outbreak of the Thirty Years' War it suddenly collapsed. Nevertheless, the wealth of its individual merchants, and the continued prosperity of many of the confederated towns unaffected by foreign wars, made this an era of great architectural activity, and to this period of the League's political decline we owe some of the finest and richest buildings in the Renaissance architecture of Northern Europe.

In this brief résumé of the history of the League, we have seen how, in its gradual rise, the centre of authority shifted from the

granite had always been used, the new-fashioned brick eliminated the nobler material. Besides this, there were peculiarities of detail and design, partly arising from these causes, and partly due to mere localisms, which are evident in the buildings throughout the countries controlled by the League.

The effect of the League's influence on the municipal buildings of Northern Europe is so obvious as to require but a passing notice. We have seen that although in the great foreign settlements the merchants erected for themselves, and resided within, their own enclosures, yet, in the smaller towns with which they traded and in which they had no permanent settlement, their influence and their requirements promoted the erection of guild and trade halls and custom-houses. The important part the merchants took in the affairs of Damme I have already mentioned; and the beautiful town-hall still standing in that now forsaken little town attests to their dominating influence there. To them also, doubtless, may be attributed the erection of many of the municipal and guild buildings of our own eastern counties, such as Norwich, Lynn and Boston, which were all towns of the League.

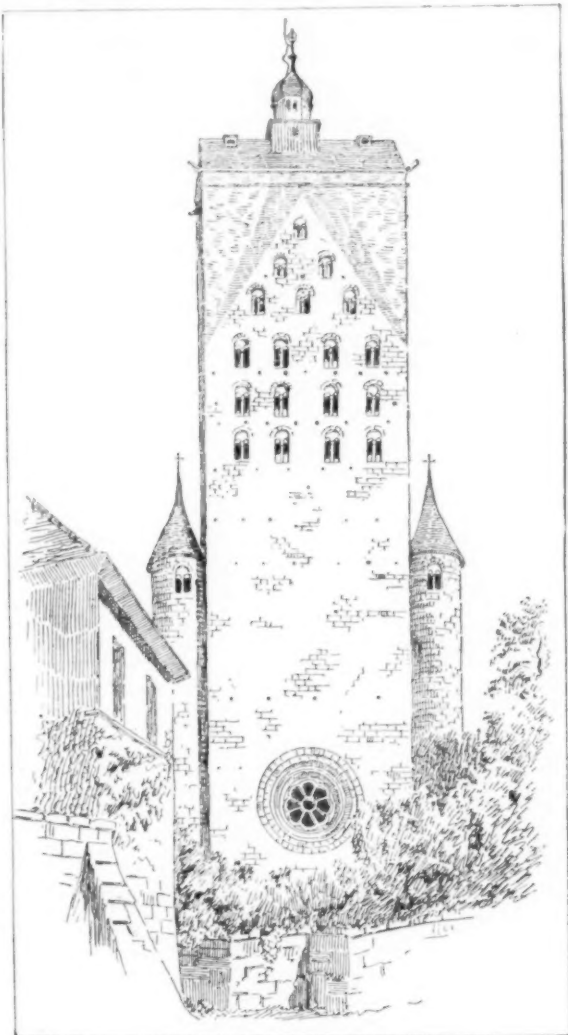
Another, and much more noticeable, circumstance was the gradual abandonment of stone where it had hitherto been used, and the almost universal adoption of brickwork in the countries over which the authority or influence of the League extended. The home of the League and its principal cities were in Wendland, which embraced Pomerania, Mecklenburg and parts of Lower Saxony, a country of great sandy plains sprinkled over with huge granite boulders brought down by the ice from higher latitudes. Here stone was only to be procured by importation from Sweden or elsewhere at great expense, and the architecture which grew up was almost exclusively of granite and brick. In Stralsund, however, which had closer dealings, perhaps, than any other of the Hansa ports with Sweden and Wisby, stone continued to be used for ornamental purposes in connection with bricks; and in the beautiful Church of St. Nicholas erected between 1311 and 1330, the capitals, bases and string-courses are of Swedish limestone. The story of this brick architecture as it existed in Pomerania has been mainly told,² but the story of its overrunning stone-producing countries is yet to tell. Throughout Sweden and Norway are fine beds of building-stone, easily procurable, but in the Hansa town of Bergen the two churches were of brickwork; Upsala Cathedral was mainly brick; and although the earlier work of Linköping, Lund and Örebro, was executed in stone, the later additions on the western fronts were wholly in red brick. In Livonia, again, where limestone abounds, such old buildings as still remain in the Hansa towns of Reval and Riga are mainly of brick. The case of Wisby and the buildings of Gotland are wholly exceptional. This island, like the neighboring one of Öland, contains good building-stone, of which most of the churches were built during the period when Wisby, having risen into importance after the destruction of Jomsborg, looked to Cologne as the head of the League; and, besides, the capture and destruction of Wisby by the Danes, although it consolidated the power of the League, came too soon to allow the later influence of Lübeck to considerably affect its buildings.

[To be continued.]

NOTES ON STABLE BUILDINGS IN LONDON.

IT has been recently calculated that there are about 80,000 horses working for their living in the streets of London. Of this total, which does not include private carriage and riding horses, about 20,000 spend their lives between the shafts of the London "omnibus," 10,000 draw street-railroad cars, 15,000 are "cab" horses and 27,000 are employed in the carrying trade of the English metropolis. Of these latter, about 6,000 belong to the railroad companies who in England perform an extensive street-carriage business in connection with the collection and delivery of freight. Of the rest, about 3,000 are brewers' horses (and these are, as a whole, the finest of their class), 1,500 are employed by coal merchants, and a like number drag about the public dust-carts which collect refuse from the streets and houses.

As most of these animals are employed in the busiest part of the metropolis, it follows that they must be housed in positions conveniently adjacent to the scene of their labors. Consequently, a ruling consideration in the construction of stables for London horses is the great value of the land on which they have to be erected. This was not so much so in the past, however, when many places were suburbs which are now amongst the most important parts of London, and therefore we find that most of the old-fashioned stables — those, for instance, belonging to old-established firms of carriers or brewers — are built in a very straggling manner and cover a large area of ground. Not so the stables of recent erection, which have been, as a rule, built in the most compact form possible. Thus in a new block built by the Great Western Railroad close to its terminus at Paddington there are no less than four floors of stables, one above the other. The top floor being almost as high as the adjacent hotel with a look-out down on the station roof. The headquarters of Messrs. Carter, Paterson & Co., the well-known London carriers, are in three floors, one over the other, and the London Road Car Company's depot at Fulham, which accommodates 700 horses and is generally considered the finest in Britain, consists of stables in two



West Tower, Paderborn Cathedral.

banks of the Rhine to the shores of the Baltic, and the effect of this change on the architecture of the district is very apparent. The earlier influences of Cologne, first on Hildesheim, and then, through Hildesheim, on Denmark and the Baltic coasts, are manifest in the great apsidal churches of Ribe, Roskilde and Lund; but when, later, Lübeck became the head of the League, she also became the centre of architectural influence, and the ecclesiastical buildings of the fourteenth and fifteenth centuries in the north of Germany were much more affected and inspired by the Dom of Lübeck than by the far finer, but less German, Cathedral of Cologne.

The consequences of this preponderating authority of Lübeck on architecture were of various kinds. The peculiar social and political organizations of the League were made known in the surrounding and foreign countries with which its merchants traded, and suggested a class of buildings hitherto unknown. Wherever the agents of the League settled, they seem to have indoctrinated the people in the mysteries of brick-making, until, in countries where stone and

¹ Creighton and Wheaton's "Scandinavia."

² "The Mediæval Brickwork of Pomerania," Transactions, 1873-74, pp. 15-31.

stories built around a quadrangle. For the handling and management of a large stud of horses, stables built in such compact forms as these present some advantages over old-fashioned straggling buildings, as they can readily be divided into sections and thus the work of each horse-keeper can be clearly defined. Moreover, for light and ventilation, animals placed on the upper floors of a London building will generally be better off than those whose habitations are on a level with the ground. When the housing of working-horses on a large scale in the heart of London first became common, these considerations were little regarded, and horses were often, for the sake of economy, stabled in the basement of buildings used for other purposes. Thus a portion of the large stud employed by the Northwestern Railroad are housed beneath the railway station at Broad Street. The newest stables built by that company, however, stand on their own ground and are lofty, bright and airy. The most obvious objection to stables built on several floors is the labor entailed in taking in supplies of food and bedding and in removing manure, etc. In most large buildings of this type, however, hydraulic machinery is provided for these purposes.

An excellent example of a London stable building of the newest and most approved type is afforded by a structure recently erected by the Great Northern Railroad, close to its station at Farringdon Street in the heart of the City of London, for the accommodation of some 200 horses employed in street-cartage work. The two upper floors only of this building are devoted to stables, the basement having been utilized for a warehouse, while on the ground-floor the railroad-carts load and unload as well as remain under shelter, while the horses are housed overhead. This arrangement is a healthy reversal of the old-fashioned plan alluded to above. The stables are ranged around the outer walls of the building in the form of a quadrangle, the centre of which consists of an open well-hole covered by a glass roof. This roof is raised above the inner walls of the building so that an opening is left all around through which a constant current of air passes up the well-hole from the street-entrance on the ground-floor. Moreover, each stable has windows in its outer wall fitted on the hopper principle. Running around the well-hole on each floor is a balcony, which is approached by two inclined ways, one on each side of the building, from the floor below. At the top of each inclined road, on the balcony, a water-trough is placed, so that the animals can be watered easily, both on entering and leaving their stalls. From each balcony admission is gained to the stables on its floor. These are divided in each case into seven sections, each of which has an opening on to the balcony protected by a sliding-door. This enables each section to be isolated from the other in case of necessity, and as the door slides on runners, it is impossible for a horse to get foul of them when entering or leaving its stall. Each section contains stalls for from 10 to 15 horses as well as a loose-box for sick or vicious animals. The stalls are 9 feet 6 inches long by 6 feet broad, and the loose-boxes average 10 feet by 12 feet. The average ground-area allowed per horse is 90 feet and the cubic space varies from 1,000 feet to 1,440 feet. These dimensions meet the requirements of the best authorities on the subject. The inside walls of the stables are faced with glazed bricks, which are excellent both for light and cleanliness. Standing divisions made of pitch-pine are provided between the stalls. Swinging divisions are, perhaps, better for ventilation and sanitary reasons, but large horses, such as those here housed, are apt to injure themselves against these. Each division is capped with iron to prevent crib-biting and a kicking-board of wych-elm 6 inches wide, which can be renewed when worn out, is fastened close to the ground against the hither end of each partition. The mangers are of salt-glazed earthenware and are made in two pieces, so that if one is broken, the other is still available and can be retained while the broken one is replaced. Flush boarding is nailed from the manger to the floor of the stall, so as to remove the risk of a horse injuring itself by knocking against the underside of the manger when rising from a recumbent position. No hay-racks are provided, as chopped food only is given.

In stables built in stories, paving and drainage are important matters, for unless they are carefully provided for, urine will leak through from the floor above onto the horses below. In the building now being described, a patent metallic paving has been used. This is laid *in situ* on a loose three-inch cover of burnt ballast, and channels are formed in it after it is laid down. The loose cover prevents the pavement cracking when the iron girders which support the floors expand or contract with changes of temperature. The drainage is all carried off from the surface in hanging pipes and there are no cesspools. A store-room for provender, bedding, etc., is provided on each floor, and the sacks of food and bales of peat-moss for bedding are hauled up the well-hole by an hydraulic-power pulley, and received on falling flaps which project from each side of the balconies to form a bridge. For the removal of the manure and stable refuse, a chute is provided from each balcony, the manure falling into a receptacle on the ground-floor from which it is carted away. There is a men's mess-room on the top floor and part of the building is also devoted to a residence for the chief horse-keeper.

C. H. G.

EXPEDITING THE CURRENT IN MEXICAN SEWERS.—A new project for the sanitation of the sewers in the City of Mexico, at a cost of about \$25,000, calls for the building of some twenty-five windmills in different parts of the city to rotate paddle-wheels in the sewers and quicken the current to one metre per second. — *El Universal*.



THE HOLIDAY SEASON.—THE DAILY PAPERS AND ARCHITECTS.—THE CHIGNECTO SHIP-RAILWAY.—COM-PROMISE OF THE SUIT, THE QUEEN VS. LARKIN, CONNOLLY & CO.—CONVENTION TO CONSIDER THE LAKE CANAL SYSTEM.

JULY and August, the holiday months, do not afford much "copy" for letters on architectural or engineering matters. Every one is trying to get a little "*dolce far niente*" before the short summer gives place to the dreary period of waiting for snow. In periods of general trade depression, the professional man, who has to take his share of the enforced idleness, feels it his duty to be "on the spot," although the work at his office, if he be fortunate enough to have any at all, hardly requires his presence. Especially is it so with the younger men, with whom it does not "look well" to be absent from the office, though they may have nothing to do. So they have gone to their offices, putting in an appearance, and trying to look busy, inwardly growling at the fate which necessitates such bondage. Occasionally, to break the monotony, they slip off from the office, to take a modest trip, devoutly hoping that their best clients will not happen to find them inattentive for the moment to the details of their business; but now, at last, the time has come when without pricks of conscience we may all get a "breather," and when in fact in the minds of some it looks better to take a holiday than to stay at home. The summer resorts near at hand are full, office-hours are cut down to the minimum, the professional man trots round in straw hat and flannels, bound to get off to his "retreat" by the first afternoon train or boat, and to make the most of the dullest and hottest summer on record. The writers on the daily press are hard up for subjects, so much so that we actually find a leading newspaper appearing with a full column on that much abused and miserably underrated honorable profession, the architect's. We can imagine the author gazing out of the window while he sits at his desk, his head on his hand, his elbow on his blotter and his pen between his molars getting chewed into pulp, while he tries to draw inspiration from the thinly populated streets on which his sleepy eye just rests. Presently he sees a well-known figure, a member of the said profession, cross his central visionary ray, in spotless flannels, striped blazer and wide-brimmed straw, and with a start he cries, "the very thing, I'll write about the architects," and then he writes a hundred lines or more on what he calls "The Architect's Crux," which he gathers to be the intellectual incapacity of the public to appreciate good art in building and the ruination that must befall the architect who tries to build according to the light he has received, apparently happy in his own innocent thought, that all who call themselves architects must of necessity have been trained to their work.

Is the public so miserably wanting in intelligence that the majority positively appreciate an "ugly" building and cannot by tuition or inspiration feel the charm of real art? I do not think we find it so in daily life; but though I do not intend to go into that subject here I may give voice to the thought such remarks engender. How is it that, outside professional journals, a good article on architects or their work is the rarest that finds its way into the columns of the daily press? The thread-worn notion of "educating the public" has surely had its day and might be allowed to rest, as the public persistently, to all appearance, refuses to be educated by what it sees emanating from various architects' offices. The profession somehow is not popular. It is in general regarded as superfluous, if indeed its purpose is understood, but here an alarming ignorance becomes apparent and many otherwise fairly well informed are found speaking of an architect as "getting the contract for such and such a building," or else they regard him as simply a clever draughtsman. There certainly is subject enough for "leaders" concerning the profession, if only a sufficiently intelligent writer could be found to take the matter up, but if a "daily editor wants to give us a lift" he should at any rate give the subject to an intelligent writer.

The Chignecto Ship-railway is again demanding public attention. It will be remembered that this proposed railway, now partly completed, was projected for the purpose of carrying vessels across the narrow neck of land that joins Nova Scotia to the mainland of Canada, the object being to save the long sea voyage round the Nova Scotian peninsula, and the unloading of the inland-water grain vessels and loading again into more sea-worthy craft. The railway takes the place of a projected canal which was estimated to cost anywhere between seven and fourteen millions of dollars, the cost of the railway scheme being set down as four millions and a half. The works were to have been completed within a certain number of years, in which case the Dominion Government had promised a bonus of \$170,000 a year for twenty years, to help the Company along. The Company failed to keep its part of the agreement and the subsidy was forfeited. Now, however, fresh proposals are made by the Company for the purpose of regaining the subsidy, but the

practical question of how the scheme will pay is more thought of than when first the grant was promised, and it is doubtful, or appears to be so, as to whether the railway could ever be made to pay. A tariff of fifty cents a ton is proposed for lifting and hauling the vessels, and twenty-five cents a ton for the cargo, and this would be the entire source of the revenue, so that a vessel of a thousand tons carrying a cargo of a thousand tons would cost its owners seven hundred and fifty dollars. With everything in good condition, a vessel would be taken out of the water at the Bay Verte and deposited in the Bay of Fundy in two hours and a half—an immense saving of time as compared with the long and exposed sea route; but it is a question as to whether there will be enough vessels to make these mighty engineering works of practical use. The cost of the railway with docks, gates, hoisting apparatus, etc., is enormous, and the difficulties to be overcome were considerable. If the scheme is ever completed, it will certainly be entitled to rank not merely as the first of its kind, but among the great engineering works of these latter days. The great lock-gates are themselves a wonderful feature, being of immense height, on account of the changing levels of the tides and immense strength to resist the tremendous force of storms.

The celebrated case of the Queen *vs.* Larkin, Connolly & Company has at last reached a settlement. The details of the case are probably fresh in the minds of readers, so I need not repeat them here. A compromise has been effected and approved by the presiding judge. The result of the settlement is that a balance of \$45,000 is found due by the firm, as the balance of claims and counter-claims. No costs are to be paid by any party. The plant in British Columbia is to remain the property of the firm and they are released from a large claim for harbor-dues, ground-rent and such things. When the settlement was announced, Mr. Justice Burbridge said "I think all parties may be congratulated upon the termination of the litigation. I am satisfied that the public will feel as the Court feels, that its interests have been protected in any agreement or settlement which has been made by the distinguished gentlemen who represent the Crown; and I have no doubt the defendants must feel, that their interests have been entirely safe, and that everything that is best for them has been done by the action of the learned gentlemen who have acted for the defence. I quite concur in the remarks just made, that the confession of a judgment in this matter is not, of itself, to be taken as an inference of any personal wrong-doing. They would be liable, and would feel themselves, as honest men, bound perhaps to make some restitution, where they were responsible for the acts of partners who had done wrong without their knowledge. In the end, considering the great expense and anxiety of litigation, I think that not only the public interests, but the interests of the defendants themselves must be served by the settlement."

The great water highway from the ocean to the lakes through Canadian territory is just now interesting an immense number of people. The United States has almost as much concern in them as the Dominion, and this is testified to by the numbers of delegates from, or representatives of, Boards of Trade and other commercial associations who have accepted the invitation of the Toronto City Council to attend a convention, at which is to be discussed the advisability of deepening the canals, by which vessels passing up and down avoid the dangers of rapids, water-falls and so forth, that render the rivers unnavigable at parts. The long chain of canals from the Upper Lakes is no mean feature as a commercial highway, even as they are at present, but it is thought that by deepening and enlarging them the water-carrying business might be greatly improved for both countries. The convention will be a notable one, and it is expected that from fifteen hundred to two thousand gentlemen will attend. Eminent engineers, well-known merchants, Members of the Dominion Parliament and local legislatures, and Members of the House of Representatives of the United States have signified their intention of being present, and their deliberations will be watched all over the world, as the event is of international importance.



TWENTY-EIGHTH ANNUAL CONVENTION OF THE AMERICAN INSTITUTE OF ARCHITECTS.—CIRCULAR OF INFORMATION, NO. 2.

THE Twenty-eighth Annual Convention of the American Institute of Architects will begin its session at the rooms of the Architectural League, in the Fine Arts Society's Building, 215 West 57th Street, New York, on Monday, October 15, at 10 A. M., and will continue in session day and evening on Tuesday and Wednesday, October 16 and 17, closing with a "Smoker," an informal reception in the rooms of the Building Trades Club, 117 East 23d Street, tendered by the Mechanics' and Traders' Exchange of New York, Isaac A. Hopper, *President*.

The headquarters of the Institute will be at the Hotel Netherlands, 59th Street and Fifth Avenue, where rooms can be obtained for \$2 per day and over, for a single person, or \$3 and over for a single room for two persons on the European plan, or \$4 and over on the American plan.

As previously announced, this Convention is very important in

the history of the Institute, as vital changes in the relations of the Chapters to the Institute are proposed, amendments to the By-laws are to be acted upon and papers of interest are to be read.

The Committee of Arrangements take this means to urge you to attend the Convention and to take part in its proceedings, and to ask you to extend an invitation to practising architects of your acquaintance, not members of the Institute, to attend its meetings.

As the edition of the Constitution and By-laws is exhausted, you are requested to bring your own copy with you.

It is also hoped that you have given careful attention to the proposed amendments to the By-laws and will come prepared to support them, to suggest amendments to them, or to oppose them, as you may think best.

Committee of Arrangements: E. H. Kendall, from the American Institute of Architects and the New York Chapter; Chas. F. McKim and Alfred Stone, from the American Institute of Architects and Thomas Hastings and A. J. Bloor, from the New York Chapter.

ALFRED STONE, *Secretary*.



[Contributors of drawings are requested to send also plans and a full and adequate description of the buildings, including a statement of cost.]

THE HOTEL JEFFERSON, RICHMOND, VA. MESSRS. CARRÈRE & HASTINGS, ARCHITECTS, NEW YORK, N. Y.

DETAILS OF THE SAME: TWO SHEETS.

OTHER DETAILS OF THE SAME: TWO SHEETS.

[Issued with the International and Imperial Editions only.]

DESIGN FOR A COUNTRY HOTEL, BY A WOMAN.

[Issued with the International and Imperial Editions only.]

SEVERAL years ago a person came to us with a rough pencil elevation of this building which, he said, had been prepared by his wife who was strongly interested in architecture. He represented to us that he had a largish tract of land in a picturesque neighborhood and was strongly tempted to humor his wife by building on it this summer hotel she had conceived. Would we, at ruling rates, translate into an understandable form his wife's indications, so that he could determine whether the operation would be advisable? Of course we would, and did; but the other party to the contract, after having secured the drawing "to show to his wife," forgot his obligations and never paid us for the work. We do not know whether the hotel was ever built, but feel it not to be unlikely that some time or another we may come upon it in our wanderings. But, if the design has not been appropriated from some already executed building, the study we now publish is interesting as being ostensibly a woman's work, for, practically, only the clear indications of her intentions were followed in putting the design into perspective.

[Additional Illustrations in the International Edition.]

NORTH CENTRAL PORCH OF THE FINE ARTS BUILDING, WORLD'S COLUMBIAN EXHIBITION, CHICAGO, ILL. MR. C. B. ATWOOD, ARCHITECT.

[Gelatine Print.]

A VILLA IN THE ENVIRONS OF PARIS. M. E. LEMAIRE, ARCHITECT.

[Copper-plate Etching.]

LONDON AND SOUTHWESTERN BANK, HOLLOWAY, LONDON, ENG. MESSRS. TRUEFITT & WATSON, ARCHITECTS.

THESE branch premises, here illustrated from the drawing which appeared at this year's Royal Academy Exhibition, are now in course of erection on a most commanding site at the junction of the Holloway and Parkhurst Roads. White Mansfield stone has been used for the dressings to the main elevations. The ground-floor is devoted to the banking business, and consists of a banking-chamber thirty feet square, with manager's-room, waiting-room, clerks'-room, etc., adjoining. The fittings throughout are in teak. The strong-rooms and lavatories occupy the basement, and are fitted with iron grilles and fireproof doors, etc., supplied by the Milner Company. The upper floors of the building are arranged for the manager's residence. The one-story building facing the Parkhurst Road consists of a spacious board-room, with waiting-room, lavatories, store-place and manager's private entrance.

COTTAGE, BRIMSCOMBE, GLOUCESTERSHIRE, ENG. MR. P. M. HORDER, ARCHITECT.

GIEN LODGE, MIDLOTHIAN, SCOTLAND. MR. J. GRAHAM FAIRLEY, ARCHITECT.

COMMUNICATIONS

[The editors cannot pay attention to demands of correspondents who forget to give their names and addresses as guaranty of good faith; nor do they hold themselves responsible for opinions expressed by their correspondents.]

AN ARCHITECTURAL EXHIBITION AT THE SOUTH.

ATLANTA, GA., Sept. 19, 1894.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—In view of the Architectural Exhibit to be held under the auspices of the Southern Institute of Architects, at the Cotton States and International Exposition, we desire to extend an invitation to all American architects to participate in the exhibit, and will be glad to have them correspond with us in regard to the matter as early as possible, in order that we might determine as to the amount of space required to accommodate those who wish to exhibit their drawings. We hope to have one of the largest and best display of architecture ever had in America, hence we take pleasure in inviting all architects to join us in this magnificent display, and request that they correspond with us as early as possible. Trusting that you will make a note of this in your next issue.

All correspondence will be addressed to A. J. Bryan, Corresponding Secretary, fourth floor, the Grand.

Yours truly, SOUTHERN INSTITUTE OF ARCHITECTS.

BEWARE OF UNDERTAKING "CHURCH WORK."

September 12, 1894.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—I should like to have your opinion of an affair as follows:—A church trustee wrote me regarding alterations of a church, a scheme that seemed to me impractical; I sent him advice thereon and it was abandoned, as I advised. Another letter followed, introducing new ideas (an added auditorium). To this I replied with a sketch-plan and an exterior view. Then followed two letters from the pastor, in which were comments, "we are all very much pleased," "the trustees have thought well to make these suggestions." Then follows a quantity of detail to be incorporated into plans. Two days later, a second letter with more detail; five days later, a letter from the trustee with more detail, all to be incorporated into the drawings, much involving labored changes in work already progressed. Under all this and strictly in accordance with these directions I completed the plans, specifications and details, and sent them on. They took estimates, of which they wrote me, then decided not to proceed, but build a new church later, of which the pastor wrote me, "Mr. C. [this trustee] told me last night when we had positively decided upon this, we should have you draw the plans." I naturally now thought it was time, and proper, to ask for a payment on account for what I had done. To my amazement this trustee now wrote, "I do not understand that the church is indebted to you, as your plans have not been adopted or used." Then, apparently forgetting his part in the giving to me of detail directions, he adds, "Mr. M., the pastor, has had no authority of the church to incur expense in the way of plans and specifications." I wrote, reminding him of his part in the orders given me, and to it he replies, "I never wrote you I was authorized, and never wrote you officially." He had written me, "As I am one of the trustees of the church," in introducing himself, but claims, "I simply wrote you as an individual member." The result of such correspondence, in extracting my labor and draughtsman's wages out of my office, is apparent, likewise the moral bearing of the affair, but what interests me now is his words of closing: "You, as a business man, must have known that the only party authorized to incur expense, make bargains, or incur obligations upon a church were its authorized board of trustees, and no agreement is binding until signed by them officially." Is this so? Even when the pastor had written, "the trustees have thought well to make these suggestions," in his orders to me. Is the architect who has his orders thus, from the minister and from one trustee direct, without any legal standing for claim upon the church because he did not get an agreement signed by all the trustees? If it is so, it is a point of great interest to the profession.

Yours truly,

J.

[The trustee is right. The church cannot be bound except by a formal vote of the authorized officers of the church corporation. If one of the officers induced a person to do work, representing that it was for the corporation, he might, under certain circumstances, be individually liable for compensation to the person who did the work; but we think that if the one who did the work could, without much difficulty, have ascertained whether his engagement was properly authorized, and failed to do so before performing that service for which he sought compensation, the courts would be likely to leave him to the good-nature or sense of honor of the official who asked him to do the work for his only chance of getting paid for it. Cases of the kind described are not uncommon, and, in many instances, we do not say in this one,—the architect fails to appreciate justly the position of the other party to the question. No doubt the architect, who knows just how much time he has spent, or how much money he has paid out, to produce the drawings which the church people suppose to be "mere half-hour sketches," has a right to feel himself aggrieved at being refused

payment for them; but, on the other hand, the church people, who are accustomed to make sacrifices of their own time and trouble for their church, without dreaming of being paid, and who forget, or do not know, how much labor and expense the architect has been put to in the course of the affair, have some excuse for being surprised at the presentation of a substantial bill for work which they supposed was being done for nothing. For some reason, church work, which is, pecuniarily, the least satisfactory that comes into architects' offices, is very much run after by a certain part of the profession; and church authorities are usually so besieged by offers to draw plans, or "submit sketches," or do other professional work, for nothing, that they have all the more justification for assuming that if an architect wishes or expects to be paid for work of a sort which other architects are constantly imploring the privilege of doing for nothing, he will give notice of his wishes in this respect before he does the work, or, at least, before he has gone very far with it.—EDS. AMERICAN ARCHITECT.]

EXHIBITIONS

BOSTON, MASS.—Annual Summer Loan Exhibition of Paintings; also, New Accessions to the Print Department: at the Museum of Fine Arts.

BRIDGEPORT, CONN.—Exhibition of the Sella collection of photographs of Alpine and Caucasian scenes: at the Public Library Art Gallery, September 8 to October 27.

CHICAGO, ILL.—Seventh Annual Exhibition of American Oil-paintings and Sculpture: at the Art Institute, October 29 to December 17.

CINCINNATI, O.—Special Exhibition of Paintings: at the Art Museum during September.

NEW YORK, N. Y.—Second Annual Summer Exhibition of American Paintings: at the Fifth Avenue Art Galleries.

Twenty-sixth Annual Spring Exhibition: at the Metropolitan Museum of Art, opened May 8.

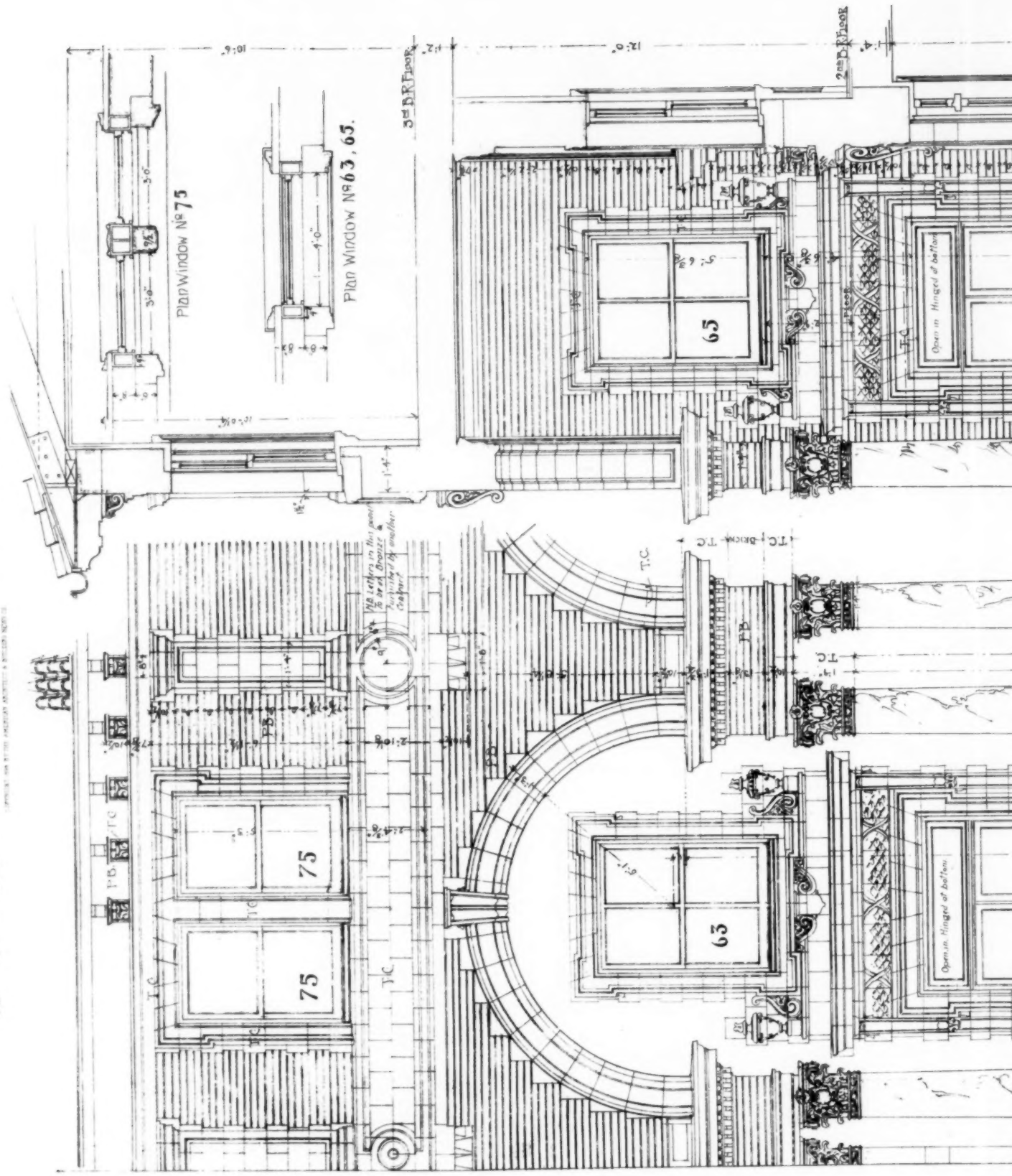
Group Exhibition by American Painters—William M. Chase, J. Alden Weir, Childe Hassam and others: at the Galleries of the American Fine Arts Society, 215 West 57th Street.

PHILADELPHIA, PA.—Sixth Annual Exhibition of the Art Club of Philadelphia: opens November 19, closes December 6.

PROVIDENCE, R. I.—Loan Collection of Paintings: at the Art Club, during September.

NOTES & CLIPPINGS

THE ST. LOUIS UNION STATION.—The boast of St. Louis, that in the new passenger station recently opened there it has the finest building of the kind in the world, is pardonable, if not literally true, for the main structure is spacious and architecturally imposing, and the equipments are on a most elaborate scale. The total cost, including land, buildings, power-house, train-shed and tracks was \$8,000,000. The passenger station itself is eighty by four hundred and fifty-six feet, and is three stories in height, surmounted by a clock which can be seen from all parts of the city. The material is gray stone. The ground floor is taken up by the carriage entrance, concourse, restaurant, post-office, telegraph-office, barber-shop and wash-rooms, emigrants'-room and ticket-office. The second story contains the general hall, ladies' and gentlemen's waiting-rooms, the dining-hall, kitchen, smoking-room, news and cigar stands, and parcel and check rooms. The third story is occupied by the Terminal Railroad Association's offices. The waiting-rooms are richly decorated and are elegant in their appointments. Especially is this so in the case of the ladies' waiting-room, which has a tiled floor, walls of blue and white and gold, and heavy oak furniture. The train-shed, which covers twelve acres, is built of iron and wood, with a concave glass roof. There is room in it for thirty tracks, besides approaches, platforms, and mail and baggage sheds. Five million pounds of iron and four million feet of lumber were used in its construction. Beyond the train-shed are three express-houses and a milk-platform 350 feet long. The houses are 50 x 250 feet, and provided with spurs of track on one side, and a pavement for teams on the other. But of all the features of the new station, the arrangements for handling traffic are the most interesting. The thirty tracks are joined by a system of switches to the four main tracks within the passenger station. The power to work the switches and signals is furnished by compressed air delivered through pipes from the power-house. The wires are set in motion electrically by means of small magnetic valves. When the operators in the tower desire a certain switch or signal thrown, they move a small lever three or four inches long, which closes the circuits in the tower, and by working the magnet valves at the switch or signal let in the compressed air which completes the movement. The interlocking system is so constructed that it is impossible to make a mistake. Every switch in a given route must be set in its correct position before the signal can be given for the train to move. In like manner, after a signal is once given a train, it is impossible to move any of the switches on the route governed by the signal, or to give signals for any other routes. The interlocking machine is the largest in the United States. It has 66 switch levers, and 65 signal levers, controlling 130 pairs of movable switch points and 103 signals. Some of the switches and signals are nearly 2,000 feet distant from the tower, a distance which would make it impossible to handle them mechanically. Over 127 miles of insulated wire were used to connect the various switches and signals with the tower.—N. Y. Evening Post.

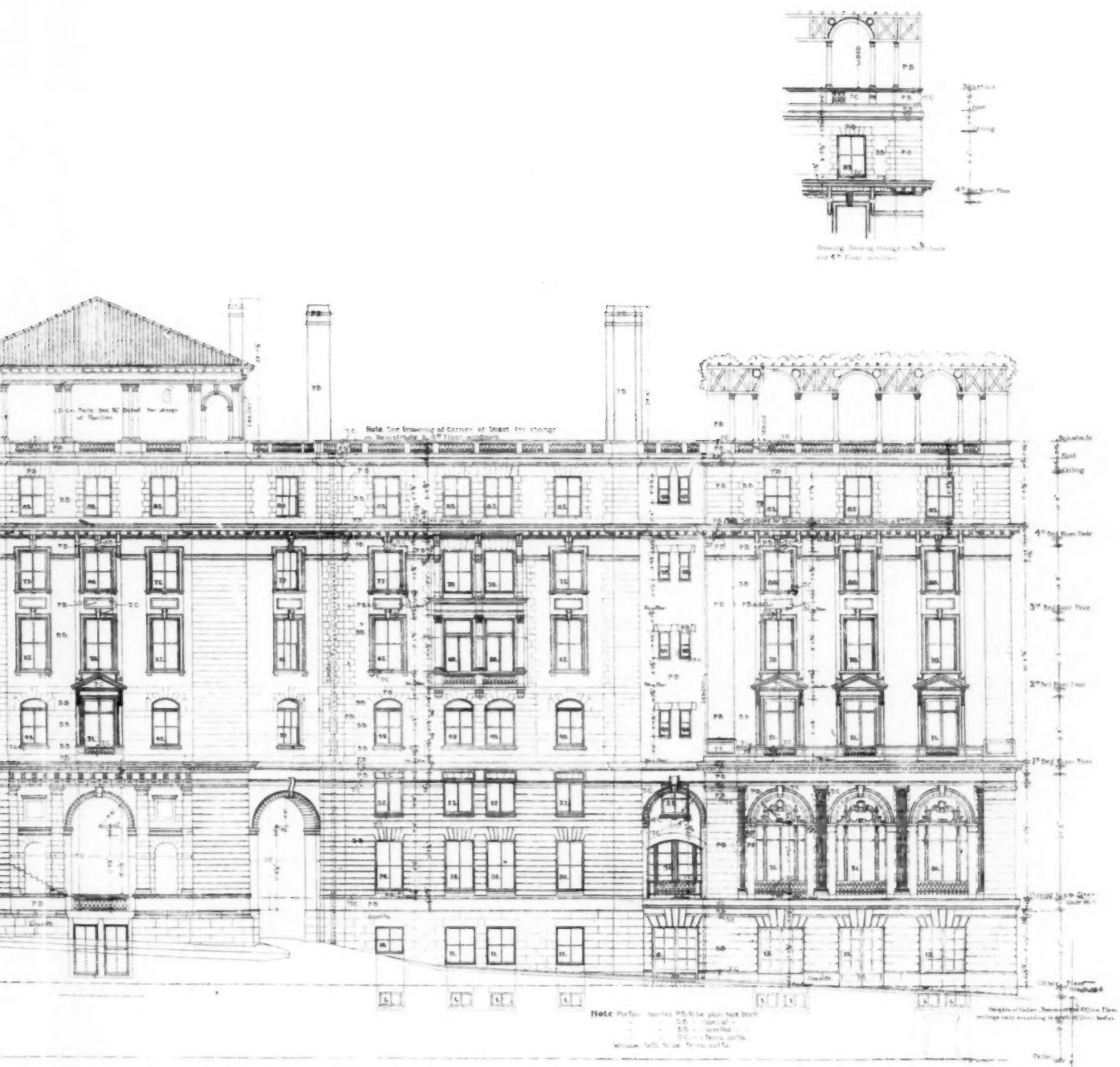




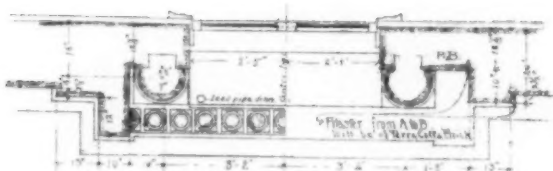
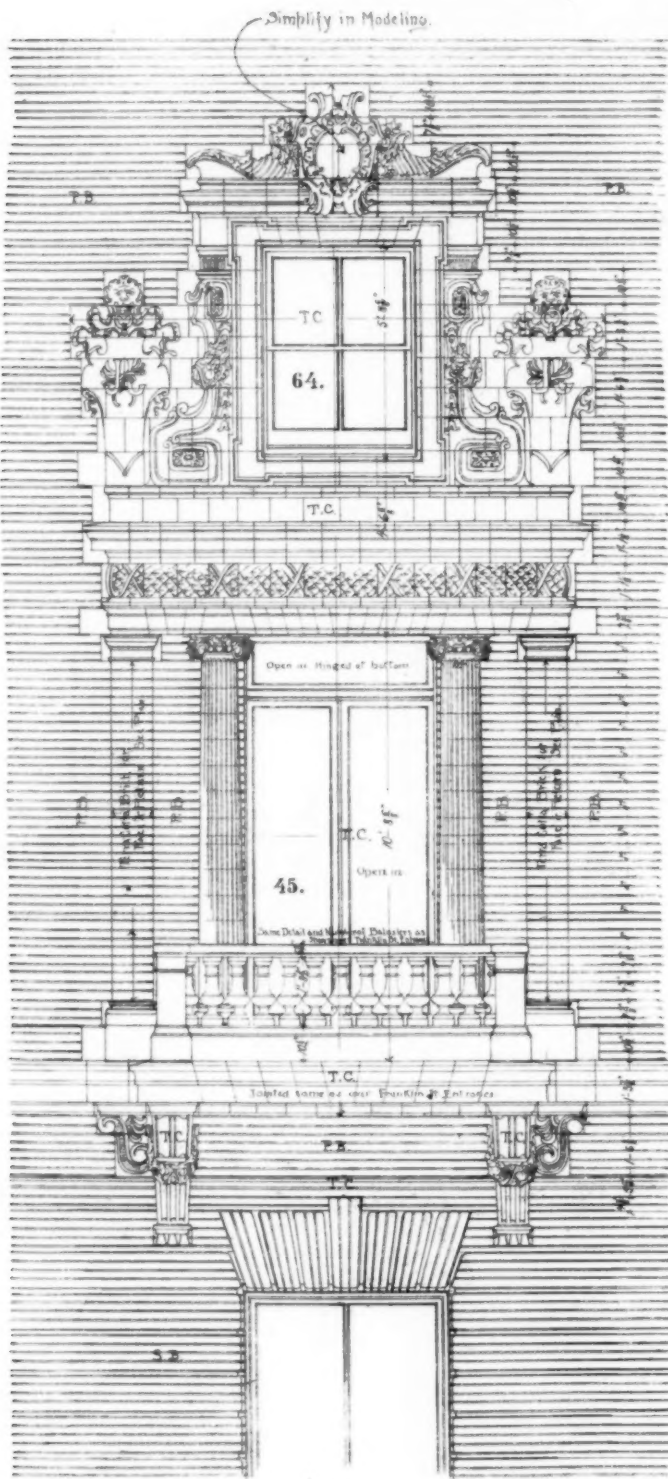
The Jefferson Hotel,
Richmond, Va.

Jefferson St. Elevation

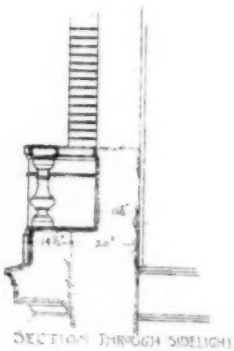
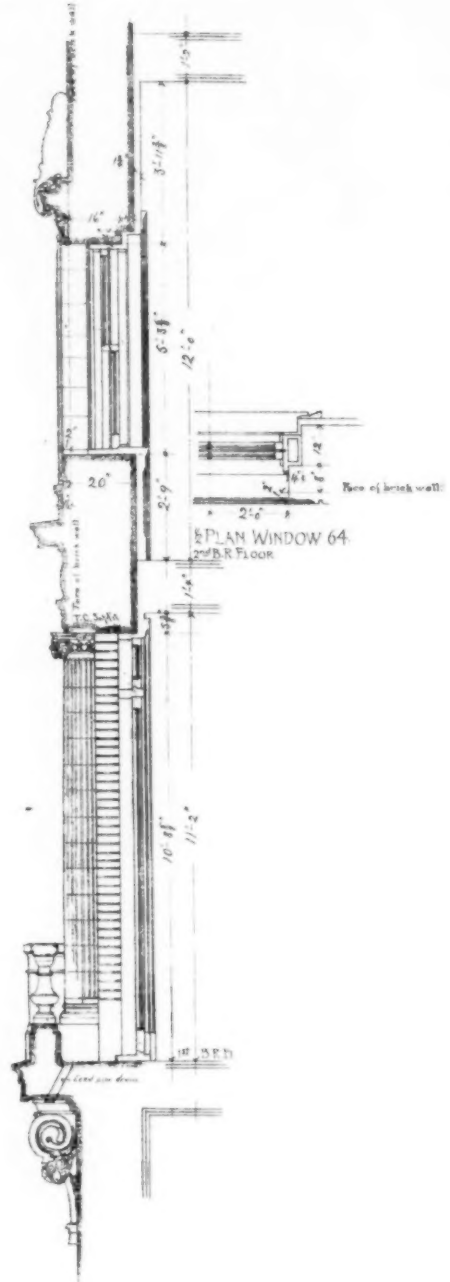
Currier and Hastings Architects,
44 and 46 Broadway, N.Y.



Note For Full Size Detail of Front & SASH of N-45 USE SAME AS FOR N-51 DRAWING N-532



PLAN THROUGH BALUSTRADE
Same Detail and Number of Details as those
over Window 64. Entrance.

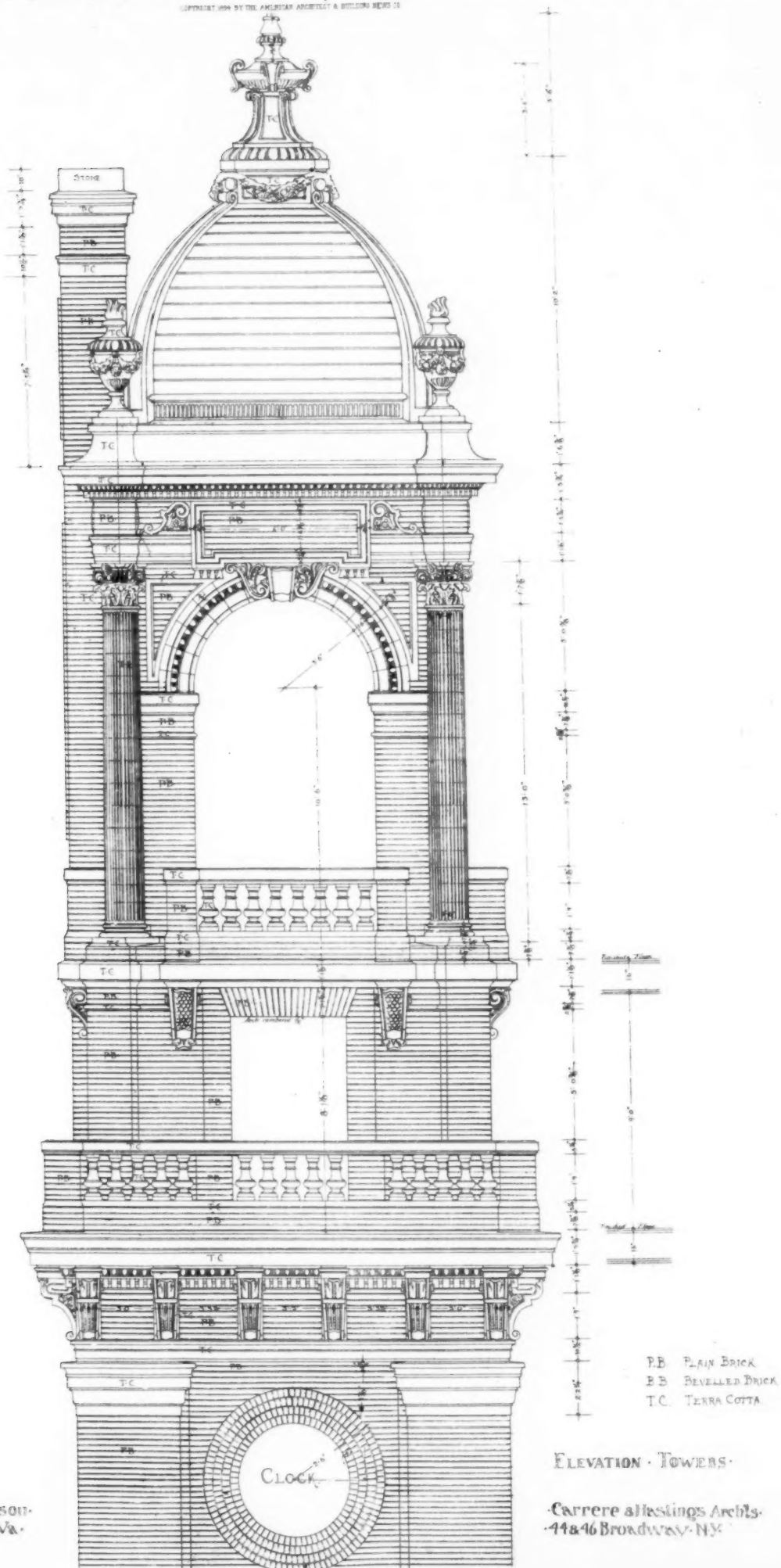


The Jefferson Hotel
Richmond Va.

Carrère & Hastings, Arcs.
441-46 Broadway, N.Y.

* Details: Windows 45, 64.

Copyright 1994 by The American Architect & Building News Co.



•Hotel Jefferson•
•Richmond Va•

ELEVATION · TOWERS ·

Carrere & Hastings Archts.
44 & 46 Broadway, N.Y.

THE AMERICAN ARCHITECT AND BUILDING NEWS

ADVERTISERS' TRADE SUPPLEMENT.

No. 145.

SATURDAY, JULY 7, 1894.

VOLUME XLV.
No. 957.

WATER-CLOSET SEAT.

THE well-known firm of Haines, Jones & Cadbury Co., of Philadelphia, have recently devised a most unique and valuable water-closet seat attachment known as the "Albo" detachable seat. This Company is fully in accord with the idea that "all open" fixtures are not only the most sanitary, but the most satisfactory, and they also fully appreciate the fact that fixtures should be made so that they can be readily taken apart for cleaning or repairs. As applied to a closet, we find these ideas embodied in the "Albo" seat. As shown in the accompanying illustration, the earthenware bowl is made with two

allows of an "all open" space at the back between closet and wall, thus giving free access around the bowl at all times. The seat itself is made of the best seasoned hard wood, and is warranted not to split or warp. It is neat in design, and the general effect of a water-closet fixture is greatly enhanced by the "Albo" seat, the appearance of which is a vast improvement on the old style seat, lid and back. There is still another feature of the "Albo" seat which places it in a class by itself, far in advance of any other water-closet seat. It is detachable. By simply putting the seat in a vertical position at right angles to the earthenware and gently lifting, the seat can be detached, and you are free to

they are not going to kill it by putting the price so high that no one can buy it. The 1½" "Albo" seat made in oak, antique oak, walnut, ash, cherry, both natural and stained, is to be listed at \$8.25. The "Albo" seat used in connection with their "Hajoca" Syphon-jet Closet shown in the accompanying cuts, makes an outfit which we believe has no equal.

HAINES, JONES & CADBURY CO.,
PHILADELPHIA, PA.

THE WILKS HOT-WATER HEATERS AND STEAM GENERATORS.

It is an established fact that the only direction in which heat will move water is in a



The Albo Water-closet Seat.

small oval holes at the back of the closet, which extend down into the earthenware about one inch. These holes are made larger at the bottom than at the top. Into them are placed brass trunnions fitted with special springs. When the trunnions are placed in the closet, the springs expand and the seat is held firmly and securely in place. The construction of this seat is very simple, and it will not get out of order. It gives promise of being the most popular seat ever offered to the trade. With the "Albo" detachable seat they not only do away with the unnecessary dirt-absorbing woodwork at back of closet, but also present a seat in every way a perfect sanitary success. The "Albo"

wash all parts of the closet without any hindrance whatever. This we think is a very valuable feature, and will recommend the seat to every thoughtful person, but it will be especially appreciated by those who have the oversight of closets in public places and large institutions, where the closet should be thoroughly cleaned every day. When closets are placed in marble or slate stalls, the seat can be detached, and washed from a hose turned on the closet without fear of damaging its woodwork. Any of the H. J. & C. Co.'s closet specialties can be had with this seat attachment. Architects will be glad to see and feel like congratulating the firm on the fact that while they have a very superior seat in the "Albo,"

vertical direction and as soon as the particles of water become heated, they strive to move up and out of the top of the boiler, to make room for the cooler and heavier particles, and ascend and descend naturally in vertical lines. Water in horizontal spaces will hardly move away from the fire at all, except as it is forced out by currents in adjoining vertical spaces. The form of the Wilks Heaters gives the greatest vertical space and height and is all upright. The inner cylinder being cone-shaped and in connection with openings all around the top of the chamber of the magazine, giving the fire the greatest contact with the water all around the boiler, and a very large heating-surface. These heaters being

made of steel which can be so much lighter and, at the same time, stronger than cast-iron, as the thicker the metal the more heat is required to heat the same quantity of water through it, besides the great liability of cast-iron to crack by the great strain of expansion and contraction. Cast-iron water-heaters are a failure, as it is not a safe or proper material to make boilers of. The Wilks Heaters have no coils or pipes to fill up and to be kept tight, or horizontal sections on which the water, although it may heat, lies dormant; it seems as if this was as near the right form of a hot-water heater as can be made, giving the largest results of hot water for heating for amount of fuel consumed, with the greatest simplicity and durability in construction, with no parts requiring bolts or packing to keep



The Wilks Hot-water Heater.

tight or fail when most needed, being as strongly riveted and calked as any locomotive boiler.

These heaters have been made in nearly their present shape for more than twenty years. Some of the late improvements have been more in improving the construction and material of the heaters under the direction of the present manager, Mr. E. H. Sedgwick, who is a practical mechanic of many years' experience in boiler-work, etc., than any great change in the form of the boilers. These heaters have in the past been more generally known and used in heating water for dwellings, apartment-buildings, hotels and bath-houses, etc.; recently the Company have been generally introducing them for heating buildings, etc., of all kinds, with great success. And in larger buildings it has been found both economical and practical, instead of using one large boiler or heater, to yoke two smaller hot-water heaters together, then early in fall and in the spring and moderate weather only one heater will be required, making a great saving in fuel, etc. In extreme weather it is but little more trouble to fire two or more heaters as required; the same plan is being adopted in many large steam plants where the power required varies. The Com-

pany are making all sizes of heaters from ten inches to four feet in diameter and for all purposes for which heat or hot water is required. The steam generators are constructed on the same principle as the hot-water heaters for all purposes for steam, power-cooking, heating, etc.

Will be glad to give any information required, and to send catalogue on application.

S. WILKS MFG. CO.,
CHICAGO, ILL.

LUBRICATING PULLEY BLOCKS.

The following is a record of service-tests of hoisting tackle recently made by Robert Grimshaw, M. E., at the Brooklyn Navy Yard, in collaboration with Lieut. John A. Bell, of the Equipment Bureau, United States Navy:—

The tests were for the purpose of determining the percentage of power wasted by unlubricated blocks. For this purpose we procured a four-fold tackle which had been lying by a long time, the bearing surfaces being dry and dirty; tested this by slowly

fectured to represent the work of one man in three: that is, to enable two men using clean and lubricated blocks, to do as much hoisting as three with the rough and dirty blocks.

The lubricant used was Dixon's Waterproof Graphite Grease, as that is best adapted for anchor-handling tackle, which is exposed to both rain and sea water.

Graphite being unaffected by sea water or extremes of temperature, and the best lubricants for bearings getting heavy loads and rough usage, is admirably adapted for all machinery and tackle aboard ship, in frigid, temperate or torrid zones. R. GRIMSHAW.

Dixon's Waterproof Graphite Grease and Graphite Lubricants. Manufactured only by JOSEPH DIXON CRUCIBLE CO., JERSEY CITY, N. J.

"THE CYCLONE."

REALIZING the necessity of a thorough and efficient means for cooling and ventilating hotel-kitchens, restaurants, etc., at a moderate cost, the Huyett & Smith Manufacturing Co., of Detroit, Mich., have recently gotten up

TABLE I.—NOT INCLUDING WEIGHT OF BLOCK AND HOOK.

Net weights hoisted.	Theoretically required to raise net weight.	Act'l weights required.			Extra power required to hoist net weights.						Lubricated with waterproof graphite grease.	Saving by lubrication.
		Unlubricated and dirty bearings.	Clean and dry bearings.	Lubricated with waterproof graphite grease.	Unlubricated and dirty.	Clean and dry bearings.	Lubricated with waterproof graphite grease.	Unlubricated and dirty.	Clean and dry bearings.	Per cent.		
Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Per cent.	Per cent.	Per cent.	Per cent.	
600	150	243	213	195	93	63	45	62.0	42.0	30.0	32.0	
800	200	323	278	255	123	78	55	61.5	39.0	27.5	34.0	
1,000	250	403	348	315	153	98	65	61.2	39.2	26.0	35.2	
1,200	300	483	413	378	183	113	78	61.0	37.7	26.0	35.0	

TABLE II.—INCLUDING WEIGHT OF BLOCK AND HOOK—41 POUNDS.

Gross weights hoisted.	Theoretically required to raise gross weight.	Act'l weights required.			Extra power required to raise gross weights.						Lubricated with waterproof graphite grease.	Saving by lubrication.
		Unlubricated and dirty bearings.	Clean and dry bearings.	Lubricated with waterproof graphite grease.	Unlubricated and dirty.	Clean and dry bearings.	Lubricated with waterproof graphite grease.	Unlubricated and dirty.	Clean and dry bearings.	Per cent.		
Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Per cent.	Per cent.	Per cent.	Per cent.	
600	160.25	243	213	195	82.75	52.75	34.75	51.7	32.9	21.7	30.0	
800	210.25	323	278	255	112.75	67.75	44.75	53.1	32.9	21.2	31.9	
1,000	260.25	403	348	315	142.75	87.75	54.75	54.8	33.7	21.8	33.0	
1,200	310.25	483	413	378	172.75	102.75	67.75	55.7	33.1	21.8	33.9	

NOTE.—These results show that the use of Dixon's Waterproof Grease reduced the friction, in comparison with the case of dirty bearings, about 60 per cent, and when compared with clean dry bearings, about 33 per cent.

hoisting various dead weights by man-power, applied through a sixteen-fold compound tackle and measured by a spring balance.

We next had all bearing surfaces cleaned, but not lubricated, and made the same tests—and then lubricated them and again repeated the tests.

The results are shown in the accompanying tables.

In Table I no account is taken of the constant weight of the lower block and hook, nor of the varying weight of the rope between the blocks.

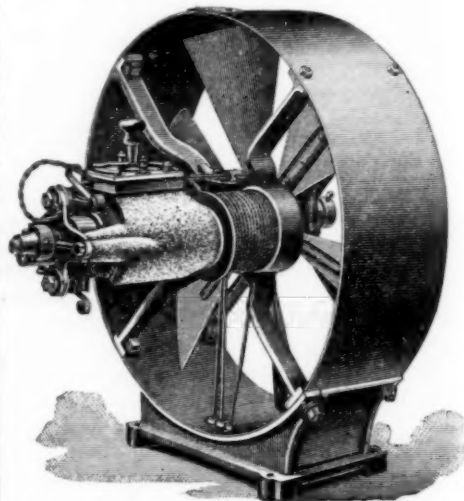
In Table II the weight of block and hook (forty-one pounds) is considered, merely to check the accuracy of the last column in Table I—the percentage of hauling power which is saved by lubrication, or wasted by non-lubrication.

As is usual with "cat and fish" tackle in the United States Navy, the upper block had roller bushings for the sheaves, and the lower one plain brass fixtures. The saving by lubrication would have been greater had both blocks had plain bushings.

The percentage of saving increased with the load, which is important in view of the fact that the loads were very light for the tackle. As it is, sufficient power-saving is ef-

what they designate as the "Cyclone Ventilating Fan."

The qualities of the Standard Smith Ventilating Fan are too well known to require any comment; the only possible objection to it



The Cyclone Ventilating Fan.

being the price, its substantial construction making it impossible to manufacture it at a price to compete with the many inferior makes

on the market. We have, up to this time, withstood the urgent solicitations of our agents to get up a cheaper line of fans, but have finally succumbed, and acknowledging the force of their arguments, that a large portion of the public using such machines consider simply the matter of price in making their purchases, we have designed and now offer for sale the "Cyclone Fan," herewith illustrated, and we claim that it is a better fan as to its durability, design, finish and effectiveness than any other fan on the market excepting the "Smith." We are enabled to make prices on this line of fans to meet those quoted on fans which are in no way to be compared. Having for years been the largest manufacturers in the country of this type of machinery, we intend to retain that position and to largely increase our proportion of the business by being able to meet every demand of the trade.

The Cyclone Fans are furnished with pulley

rents, and they can furnish them wound for any voltage.

HUYETT & SMITH MFG. CO.,
DETROIT, MICH.

WHY NOT REMODEL THE OLD HOME?

MODERNIZE it and introduce a few conveniences to the interior.

It will interest every one and many will envy you its possession; besides, life will be made endurable if the objectionable inconveniences of one's house are removed and in their place improved interior woodwork, fittings and furnishings are introduced.

Among some of the improvements, for instance, would be a sliding-door (which is out of sight when not wanted) to replace an old swinging one that often covers the space where one could hang a fine painting otherwise.

A new staircase that would widen the hall;

The scope of this department also includes the interior hardwood finishing of office-buildings, hotels and residences.

The accompanying sketch illustrates a remodelled interior of a dining-room in an old city house, which was the usual commonplace room with two windows opening on a rear yard, the light subdued by long heavy curtains until very little daylight ever entered into the room.

To accomplish this improvement, the centre brick pier between windows was removed and across the opening thus made, overlapping the jambs of the windows, a steel girder was placed which carried the brick walls overhead.

A conservatory constructed of galvanized-iron sash-bars, angle-iron purlins, properly braced with struts and tension-rods and turn-buckles, with ventilators and the apparatus to work them, was put up as shown.

Between the partition of the conservatory



A remodelled Dining-room.

or with direct attached Electric Motors.

The Motor attached to this fan is what is known as the Fuller Patent Electric Motor, and is furnished with a three-speed switch. The pole-pieces of the motor being parallel with the fan-shaft, the spider or arms of the fan-frame being utilized as a keeper of the two magnets, the breaking-space of the poles is brought into a vertical position, removing all danger of short-circuiting the magnetic lines of force across the poles, which is done by the fan blades in the use of an ordinary motor. The commutators are built of numerous sections thoroughly insulated with mica, which is an additional safeguard against short-circuiting and "burn-outs," from which no difficulty is experienced in the use of this motor.

This combination Fan and Motor is carried in stock by the Huyett & Smith Manufacturing Co., Detroit, Mich., and at their various branches, wound for 110 and 220 volt cur-

rents, and they can furnish them wound for any voltage.

Where to commence and with whom to consult is a problem confronting the client contemplating such improvements.

Commence with the front door and consult the celebrated Steamship and Car-builders, the Harlan & Hollingsworth Company of Wilmington, Delaware, who have their offices in London, New York, Chicago, Philadelphia and Washington, D. C.

They create artistic interiors and from the experience of years in utilizing space to the utmost, the development of a department devoted to the remodelling of house interiors is the natural result of the growth and progress of the business of that Company, which for over fifty years has held the first rank in the different branches of mechanical and artistic work.

and the wall of house, a space sufficiently wide to admit the swing of a door has been utilized overhead to ventilate the dining-room to the outside air.

The light obtained through this improvement is very valuable and can be subdued by linen shades on the glass partition.

The sideboard, as will be seen, is placed between the entrances to the conservatory, where it occupies no valuable room. Instead of using mirrors to reflect the room, which is the usual way of decorating a sideboard, the spaces are left open and filled with clear plate-glass, and living-flower pictures are thus obtained.

The woodwork of the room, which is dark oak, consists of a high wainscot divided into two sections, horizontally; the lower part panelled, the upper part flush. Upon this latter portion of the wainscot, the pictures are hung as upon a background. The ceiling is

ALSEN'S PORTLAND CEMENT

is the strongest and most serviceable Cement made, and will permit the admixture of a larger amount of sand or gravel with less loss of strength than any other brand; it is therefore the most economical. It is the finest ground cement made, and has the largest bulk to the barrel.

The following test, made in actual work, by Col. D. C. HOUSTON, Corps of Engineers, U. S. A., at the sea wall around Governor's Island, New York Harbor, has never been equalled by any other cement. It is as follows: Tensile strength per square inch, one day, 384 pounds; seven days, 600 pounds; thirty days, 818 pounds.

For Sidewalks it gives the best color, and the most enduring wearing surface. Most of the prominent Railroad Bridges and the large Office Buildings of the country stand upon a foundation of concrete made of ALSEN'S CEMENT.

Alsen's Portland Cement Works, New York Office, 143 Liberty Street.

panelled with beams of solid oak, with heavy oak flush panels between. The columns and capitals, together with the arches, spandrels and carved soffits, encase the old brickwork and make a finish to the woodwork. The polishing and rubbing down of the woodwork is a matter of course.

The decoration of the walls above the wainscot consists of tapestry-hangings, which fill the space, and so tone into the woodwork as to make the walls successful backgrounds for paintings, bric-à-brac, and such little touches of color here and there, as a woman gives to her home.

The Company proposes to show designs such as this, or in color, to illustrate the many ways of remodelling old houses into those of modern design and convenience, and as there are so many ways of producing a comparatively satisfactory result, it is their intention to make designs for the client until the style, finish convenience and price accord with his ideas and are consistent with the building.

More cannot be done by any one.

HARLAN & HOLLINGSWORTH CO.
METROPOLITAN LIFE BUILDING, NEW YORK.

"MODERN HOUSEHEATING."

THE Gorton & Lidgerwood Co., 96 Liberty Street, New York, has just issued a new edition of "Modern Househeating." Of special interest are several half-tone plates showing the Gorton Boiler as used in heating large buildings. The book is altogether a very creditable publication and should be in the hands of every steam-fitter, architect and builder. A copy will be sent any one mentioning the *American Architect and Building News*.

THE NEW DEAFENER.

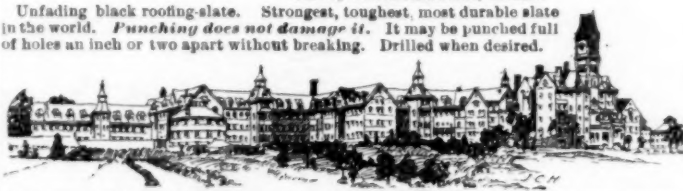
CABOT'S Sheathing and Deafening "Quilt" has already scored a triumph over the ordinary methods. Actual tests have shown that three thicknesses of the best felt are not equal to a single thickness of Quilt. This, of course, shows a very important economy in application, in addition to the low cost of the Quilt, and it also means economy of space and weight. The flat blades of sea-grass of which the filling of the Quilt is composed, overlay each other at every possible angle, forming innumerable air-spaces which are of the greatest importance for deafening or insulating.

The quilt has been subjected to many tests, notably one for deafening in the Massachusetts Institute of Technology, and its superior non-conducting power has been shown repeatedly.

BROWNVILLE MAINE SLATE COMPANY.

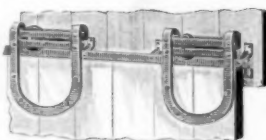
Office, WORCESTER, MASS.

Unfading black roofing-slate. Strongest, toughest, most durable slate in the world. *Punching does not damage it.* It may be punched full of holes an inch or two apart without breaking. Drilled when desired.



STATE LUNATIC ASYLUM, WORCESTER, covered with our Slate.

Toughest
Slate,
Fewest
Leakages.
Oldest
quarry
in Maine.

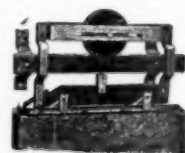


LANE'S Patent Steel Barn Door Hanger.

ANTI-FRICTION. MOST COMPLETE IN CONSTRUCTION.

MATERIAL THE BEST. NO BREAKAGE.

Ease of Movement. Always in Order.



LANE'S Patent Noiseless Steel Parlor Door Hanger.

Hanger is made of steel throughout, including wheel, except solid interior leather tread, causing to roll noiselessly.

Single steel track instead of double wood rail.

Ask your Hardware dealer, and send for Circular.

Manufactured by LANE BROTHERS, Poughkeepsie, N. Y.

In dwellings, refrigerators, cold-storage warehouses, office-buildings, etc., it will be found much more effective than papers, felting or back-plaster, and the ease of application is fully equal to any of them. The sea-grass contains Silicon in place of Carbon, and the Quilt is thus much less inflammable than felts or papers, because this grass will not burn, simply shrivelling when heat is applied. Sample and information can be had upon inquiry of the manufacturer,

SAMUEL CABOT,

BOSTON, MASS.

EIGHTEEN ELEVATORS FOR THE NEW COMMERCIAL BUILDING, PHILADELPHIA, PA.

SUCH a number of elevators to be placed in one building is anything but an ordinary occurrence. Only a few years ago it would have been exceptional for a building to have more than one elevator; but with the raising of buildings to such enormous heights as they are at present, it is necessary to build what might be termed "vertical streets." The builders of the new Commercial Building in Philadelphia received estimates and inquired into the safety, speed and economy of all the first-class elevators manufactured in this country, and finally awarded the contract to the Graves Elevator Company, of Rochester, N. Y. This contract was awarded after an exhaustive and competitive investigation, by showing superior economy in running ex-

penses, though the bid of the Graves Elevator Co. was by no means the lowest.

The Graves Elevator Co. have also just been awarded the contract for two of their high-speed hydraulic passenger elevators for the new Tremont Temple, Boston, Mass.

GRAVES ELEVATOR CO.,
ROCHESTER, N. Y.

NOTES.

THE "Peerless" House Heater people report some smart sales for their circulating Steel Boiler. They are behind with their orders at their factory. The simplicity and cheapness of their Heater is attracting widespread attention.

GEORGE H. BELL & CO., Sole Agents,
114 AND 116 NASSAU ST., NEW YORK, N. Y.

OWING to the success of the "Peerless Heater," as managed by Geo. H. Bell & Co., of 41 Dey Street, New York, it was deemed expedient by the owners to form a Stock Company, which was completed on May 27.

The simplicity and cheapness of the Heater, together with the fact that it answers for both Steam and Hot Water Heating, places it first in the market, and as a result, the factory is behind with their orders.

The corporation will be in such shape for the future as will facilitate the prompt execution of all orders which the popularity of the "Peerless Heater" deserves.

THE AMERICAN ARCHITECT AND BUILDING NEWS

ADVERTISERS' TRADE SUPPLEMENT.

No. 146.

SATURDAY, AUGUST 4, 1894.

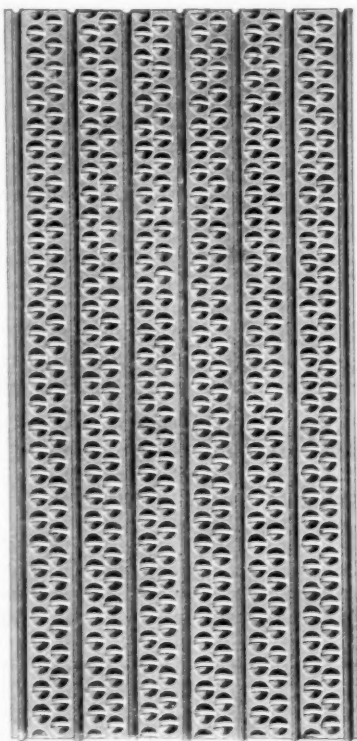
VOLUME XLV.
No. 971.

THE "PIQUA" METALLIC LATH.

THE Cincinnati Corrugating Company with Rolling Mills, Corrugating Works and Offices at Piqua, Ohio, have recently perfected and are now placing upon the market a new and improved form of steel lath, shown in the accompanying engraving, for which is claimed a number of improved features of interest to the reader.

The material used is of the best grade of steel, in sheets 27½" wide by 48" long, each sheet covering exactly one square yard of surface. These sheets are traversed lengthwise at intervals of 3¼" by ¾" corrugations, thus providing great rigidity and stiffness to the entire sheet.

Between these corrugations, as will be noted upon reference to the illustration, are formed a series of slots at right angles to the



The "Piqua" Metallic Lath.

corrugations, the metal on either side of the slot being depressed into cup-like shape, into which the mortar or plaster easily slides, and passing through forms a "key" of extraordinary strength and perfection, besides obviating entirely the useless and expensive waste of plaster incurred when wire, metal, or common wood-lath, is employed.

The "Piqua" Metallic Lath requires no

stretching, stiffening-pieces, nor staples for securing it to the framework, common nails only being used for attaching it in position.

While this Lath is used quite largely in buildings of wooden construction, still it is principally used in strictly fireproof buildings in connection with iron beams and furring, and it is here that the rigidity and stiffness formed by the corrugations makes it especially valuable, for the reason that the studding can be placed at least two feet apart, making thereby a great saving in the cost of the studding. Where this Lath is used in connection with iron, the usual method is to wire it into place, the cost of which is little, if any, more than the cost of nailing it to wooden studs.

It is especially adapted for Adamant or Patent Plaster, and the rapidity and ease with which it may be applied to round, square or angular surfaces, together with the fact that it affords a much firmer holding-surface for the plaster, and its fireproof qualities commend it to all architects, builders and owners of buildings.

CINCINNATI CORRUGATING CO.,
PIQUA, O.

THE "SPENCE" BOILER.

OUR notice has recently been called to the fact, that some makers of hot-water heaters are employing all the wit they possess to put on the market heaters that have a similar external appearance to the *original genuine* "Spence," which we own and control, and are sending out jaunty letters as a disguise. We most emphatically say our Company own and control all the original United States patents covering the most essential features in the internal construction of the *genuine* "Spence" boilers pertaining to the water-post, which makes each section independent of the other. In no other boiler manufactured and sold, that we know of, is this possible. We shall not try to deceive any of the trade by over-rating any of the large line of boilers we manufacture and sell, as we are working strictly upon the basis of maintaining the already established reputation we enjoy. We are not merely doing business to-day, but expect to continue in the market for a good many years. If you accept the desultory letters sent out by new beginners, you must take your chances on results, as it takes years of experience to overcome certain inherent defects in the construction of an article like water-boilers. After a long experience of twenty-five years, during which time we have seen a great many manufacturers of boilers pass into a state of "innocuous desuetude,"

it prompts us to know we shall continue to stand preëminently at the head of the list, and want to merit a continuance of your kind patronage and confidence. Don't hesitate to write us regarding any details in connection with steam or hot-water heating, as it is a great pleasure for us to coöperate with you to our mutual advantage.

AMERICAN BOILER COMPANY,
CHICAGO, ILLINOIS.

THE INSULATION OF FRAME RESIDENCES.

IN the construction of frame residences, the question of insulation is an important one to those who are desirous of building a home which will be as fireproof as a frame building can be made, and the most comfortable both in summer and winter.

In the selection of an insulation, it is well, therefore, to select one which is not only fireproof, but which is, at the same time, a good non-conductor of heat.

To obtain the best results in fireproofing, it is essential that the material employed should fill the entire space between the studs, as these spaces form natural flues for the spread of fire from cellar to roof, and for this reason alone, asbestos paper is not desirable for this work, although in itself it is fireproof. The same may be said of paper sheathing and hair felt, although the latter is not as good as asbestos paper, as it will decay, and in so doing give off unpleasant odors.

It is also well when selecting an insulator to look for one which is light, and clean to apply, and for these reasons brick-filling, although filling the entire spaces between the studs, is not desirable either. It is, beside, a poor non-conductor of heat.

Among the materials which have been used extensively in the past few years for this class of work, mineral wool appears to fully meet the requirements of an insulation for frame residences.

From statistics and tests we know that its fusing point is about 2200° F. which would show that it is fireproof. It fills the entire spaces between studs and is one of the best non-conductors of heat known, and will, so experience shows, save its cost in fuel in a few years. It is also both sound-proof and vermin-proof.

To sum up: in the selection of an insulation we should think of the comfort of a house—cool in summer, warm in winter—and should look for something which is cheap, light and odorless, durable and non-decaying, fire and vermin proof, easy and clean to apply

and which is a good non-conductor of heat and will fill the entire space between studs.

WHITE LEAD.

JUDGE RUFUS B. SMITH, of the Superior Court, yesterday morning handed down his decision in the case of the Walker Paint Company against the Anchor White Lead Company.

The case, which was closed some ten days ago, lasted nine weeks, and testimony was offered from various parts of the country, while some of the heaviest legal pounding done in the Court-house for a good long time was that indulged in by the attorneys on both sides of the important suit. Judge Smith dismisses the petition of the plaintiff. The Walker Paint Company sued the Anchor White Lead Company and the Eckstein White Lead Company in August, 1891, claiming that the defendants were using false analyses of the plaintiff's goods; that the plaintiff did not use barytes in its alleged pure oxidized white lead, and that the defendants were issuing circulars containing chemists' analyses showing the goods of the plaintiff to be adulterated with barytes. Action was brought for an injunction and \$50,000 damages. Judge Smith was rather severe in his remarks. His decision will attract widespread attention, in view of the fact that the case involves much more than shown on the face of the petition. The attorneys in the case were: Plaintiff Jos. B. Foraker, Charles Prior, Frank H. Kinney, Drausin Wulsin and Frank O. Squire, for the Anchor White Lead Company, and Elliott H. Pendleton for the Eckstein White Lead Company. Judge Smith gave judgment for the defendants and dismissed the plaintiff's petition.

The gist of the Court's decision is expressed as follows:

JUDGE SMITH'S DECISION.

"In the length of time which this case has taken, ten weeks, in the stupendous proportions which the record has reached by reason of the volume of testimony, depositions and exhibits, in the absolute contradiction in many parts of the testimony, and in the sensational surprise which resulted from the testimony of two of the witnesses, and in the zeal, perseverance and apparent conviction of the respective counsel in the justice of their

cause, the case presents features which mark it as a case which may justifiably be characterized as extraordinary. The defendants admitted that they had published the analysis complained of, and their principal ground of defense was that the statements contained in the analysis were true, and that the plaintiffs, as manufacturers of white lead, under their different brands, had during the years 1889 and 1890, notwithstanding their statements to the contrary, used barytes as an adulterant. The defendants further claimed that having had numerous analyses made of the product of the plaintiff, all of which showed the presence of this adulterant, they were justified in publishing these analyses for the purpose of informing the trade and public generally of the fact that the plaintiff's goods were adulterated. Nearly fifty different analyses were introduced in evidence on both sides, and in those made of goods manufactured prior to August, 1891, the presence of barytes as an adulterant was almost invariably shown. The plaintiffs attempted to establish, by the testimony of its officers and three of its employes, that no adulterant had ever been put in its goods, but the Court finds that the analyses show conclusively that such was not the fact.

"The Court finds that the claim of the plaintiff that the defendants tampered with or caused to be adulterated any of the kegs of the plaintiff's goods is wholly unfounded and unsupported by any evidence worthy of belief. The Court further finds that the testimony of Alex. Matthews is entitled to no credit whatever, and that the testimony of William B. Burke was as deliberate a case of perjury as has ever been attempted in court. The Court further finds, after excluding from its consideration a number of the analyses, not because there is any question as to their correctness, but as it is unnecessary to follow them, that the evidence shows that the plaintiff did adulterate its goods in the years 1889-1890, as shown by the analyses made by the different chemists which the defendants caused to be published and circulated. Judge Smith, in concluding his written opinion of a very lengthy written document, says: 'In conclusion, my finding is that by a clear preponderance of the evidence the defendants have established, and to my mind beyond all reasonable doubt they have proven, that during the years 1889 and 1890 when the analyses com-

plained of in the petition were made, that the plaintiffs were sending out goods as first-class which were adulterated with barytes; that the analyses complained of in the petition are true, and that the petition should be dismissed upon that ground. It is, therefore, unnecessary that I should consider the other defenses made by the defendants. The decision, owing to the prominence of the parties involved, is of international importance and interest." — Cincinnati Commercial Gazette, May 29.

NOTES.

ASBURY PARK, N. J., July 11, 1894.

MR. I. P. FRINK, 551 Pearl Street, New York, N. Y.:—

Dear Sir,—Four concerns figured on lighting our church. Your estimate was the highest. We investigated all of them. The committee was of the opinion that it was better to pay a little more and know what we would get than to pay a little less and take chances. The fixtures are all in, and are just right. Everybody is pleased with them. We don't know but that some of the other parties might have done as well for a little less money, but we believe in reputation, and that the man who has been in business the longest and has done the greatest business gives more for the money, and that the man who under-figures makes it up at the expense of the customer.

Sincerely yours,

WM. J. COOPER, Secretary.

By Order of the Board of Trustees First Presbyterian Church, Asbury Park, N. J.

BUILDING INTELLIGENCE.

Reported for the American Architect & Building News.

ADVANCE RUMORS.

Bridgeton, N. J.—A school, will be built for which bids have been asked.

ALTERATIONS AND ADDITIONS.

Brooklyn, N. Y.—Dean St., s s 150' w 5th Ave., one-st'y and basement brick church, 45' x 70', slate roof; two-st'y brick extension, 60' x 18' 9", tin roof, to be added and other alterations made; \$3,800; own., Trustees, G. A. Wahlburg, chairman, 281-289 Butler St.

Remsen St., No. 30, four-st'y and basement frame and brick dwell., 25' x 56' 3", tin roof; one-st'y and basement brick extension, 10' x 16', tin roof, to be added, internal and other alterations to be made; \$5,000; own., L. S. Coffin, 72 John St., New York City; arch., W. B. Tubby, 81 Fulton St., New York City.

Chicago, Ill.—The Grace & Hyde Co., interior alterations, 402-412 Wabash Ave.; \$7,000. Charles Horn, addition, 164 Samuel St.; \$3,000.

CHURCHES.

Chicago, Ill.—The Chicago City Missionary Society Church, 8444-8446 North Leavitt St.; \$3,000.

(Continued on page 4.)

LOCALITY OF AUTHORSHIP OF DESIGNS
PUBLISHED IN THE AMERICAN ARCHITECT.

The assertion that the *American Architect* is a paper whose characteristics are national and not merely local is supported by the following table, which exhibits the manner in which several journals have treated domestic architecture. In this comparison the IMPERIAL edition of the *American Architect* is considered, since the additional plates of the INTERNATIONAL edition are, in the main, illustrations of foreign work.

PAPER.	Number of subjects contributed.	Number of contributors.	Towns in which contributors were established.	States in which contributors were established.	In the first column, "subjects," only actual domestic work is included (foreign work, imaginative designs and the work of sketch-clubs are excluded), and the figures there given indicate that this number of designs might have been prepared by the same number of architects practising in the same number of different towns. The remaining columns show how nearly this ideal distribution has been reached in each case.	Architects practising in the State of publication furnished.				
						Subjects.	Per cent of total number of subjects.	Different architects contributing.	Per cent of total number contributing architects.	Towns.
No. I. . . .	214	109	28	16		161	.752	75	.688	7
No. II. . . .	137	78	21	15		46	.335	24	.307	2
No. III. . . .	118	56	16	11		70	.593	22	.392	1
Am. Architect.	267	152	47	24		73	.273	39	.256	3

From this table it appears that Massachusetts architects—.256 per cent of the total number of contributors—provided only .273 per cent of the total number of designs published, percentages which, in view of the fact that Massachusetts is one of the most populous States in the Union, prove that they have not been accorded an unreasonable amount of our limited space.

THE
WORLD'S FAIR EXTRA
of the
AMERICAN ARCHITECT.

Contains twenty gelatine prints of some of the Exhibition buildings and their details, already published in the International Edition.

Five of these prints are double-page plates, the others being single-page.

FOR SALE AT THIS OFFICE. Price, \$3.50.

CHICAGO, ILL.
"Allow me to thank you for the beautiful number just received, called the 'World's Fair Extra' and to compliment you on it. Every leaf is good."

D. H. BURNHAM,
Late Chief of Construction.

CHICAGO, ILL.
"Your World's Fair Illustrations are exceedingly fine and are decidedly, to many of us, the most interesting and valuable of your illustrations. I propose to have them bound separately as a World's Fair Album."

W. L. B. JENNEY,
Architect of the Horticulture Building.

BOSTON, MASS.
"I have been delighted with the series of photographic reproductions of Architecture at the World's Fair published in the *American Architect*."

CHAS. G. LORING,
Director of the Boston Museum of Fine Arts.

BOSTON, MASS.
"I must thank you specially for sending me your beautiful World's Fair number."

S. R. KOEHLER,
Curator of Print Dept. Boston Museum of Fine Arts.

PHILADELPHIA, PA.
"I desire to testify to their excellence; they are without exception the best reproductions of the many views that have come under my notice."

THOS. P. LONSDALE, Architect.

"I think the plates are the finest I have seen."

CAMBRIDGE, MASS.

C. H. McCLARE, Architect.

"Best plates, so far published, that we have seen."

DULUTH, MINN.

TRAPHAGEN & FITZPATRICK, Architects.

NEW YORK.
"By far the most satisfactory representations of the Fair that have been published."

MONTGOMERY SCHUYLER,
Author of "Studies in American Architecture."

Etc. Etc. Etc. Etc. Etc.

! FREE !

This "World's Fair Extra" will be sent free to new subscribers to the International Edition of the *American Architect* for 1894.

AMERICAN ARCHITECT & BUILDING NEWS CO., Publishers.

211 Tremont Street, Boston.

ALSEN'S PORTLAND CEMENT

is the strongest and most serviceable Cement made, and will permit the admixture of a larger amount of sand or gravel with less loss of strength than any other brand; it is therefore the most economical. It is the finest ground cement made, and has the largest bulk to the barrel.

The following test, made in actual work, by Col. D. C. Houston, Corps of Engineers, U. S. A., at the sea wall around Governor's Island, New York Harbor, has never been equalled by any other cement. It is as follows: Tensile strength per square inch, one day, 384 pounds; seven days, 600 pounds; thirty days, 818 pounds.

For Sidewalks it gives the best color, and the most enduring wearing surface. Most of the prominent Railroad Bridges and the large Office Buildings of the country stand upon a foundation of concrete made of ALSEN'S CEMENT.

Alsen's Portland Cement Works, New York Office, 143 Liberty Street.

BUILDING INTELLIGENCE.

(Churches Continued.)

The North Side Hebrew Congregation Synagogue, 473-475 LaSalle Ave.; \$40,000.

CLUB-HOUSES.

Wisahickon Heights, Pa.—Two-sty stone, brick and frame club-house; own., Philadelphia Horse Show Association; arch., Theophilus P. Chandler, Jr., s e cor. Chestnut and 4th Sts., Philadelphia.

EDUCATIONAL.

Atglen, Pa.—The contract for the building of a new school, has been given to David Sheeler; work to begin at once.

Chester, Pa.—Architect Edwin F. Bertolette, 1221 Filbert St., Philadelphia, will prepare plans for the erection of the Chester Public High School to be built of stone and brick.

Maywood, N. J.—Two-sty and basement frame school-house, 31' x 54'; arch., J. Terhune, 39 Courtlandt St., New York City.

Philadelphia, Pa.—Horter and Musgrove Sts., two-sty and basement stone and brick public school; plans prepared by Joseph D. Austin, 713 Filbert St., architect to Board of Education; con., W. R. Dougherty, 1604 Sansom St.

Norris St., s w cor. 39th St., three-sty and basement stone and brick large public school; arch., Joseph D. Austin, 713 Filbert St.; con., W. R. Dougherty, 1604 Sansom St.

Frankford Ave., Cambria and Coral Sts., two-sty stone and brick Sunday-school building, 50' x 73'; for Trinity Presbyterian Church; con., George W. Stewart, 230 Diamond St.

FACTORIES.

Chicago, Ill.—The Deering Harvesting Co., three-sty brick factory, 1121-1131 Clybourn Ave.; \$40,000.

HOSPITALS.

Lakeland, Ky.—State Insane Asylum; \$80,000; arch., Draeh, Thomas & Bohne, Louisville, Ky.

HOUSES.

Baltimore, Md.—Two two-sty brick dwells, and two-sty brick stable, w s Bruce St., bet. Patterson Ave. and Lorman St.; own., Wm. H. Schwartz, 1709 Lorman St.

Ten three-sty brick dwells, n s Preston St., bet. Harford and Central Aves.; own., Wm. F. Ludwig, 1431 Argyle Ave.

Two two-sty brick dwells, 20' x 55' each, s s Lafayette Ave., bet. Stricker and Gilmor St.; own., Allen Beam, 1514 Riggs Ave.

Three three-sty brick dwells, s s Fayette St., w Mount St.; own., Edward Deal.

Seven two-sty brick dwells, e s Chestnut St., bet. n e cor. 3d Ave.; own., Jas. J. McCann, 402 Stockholm St.

Six two-sty brick dwells, e s Crystal Ave., s Huntington Ave.; own., Jacob E. Hager, 1524 Retreat St.

Brooklyn, N. Y.—Nostrand Ave., w s 232' s Park Ave., four-sty brick dwell, 20' x 65', tin roof; \$10,000; own., J. H. Stamm, 813 Broadway; arch., Frank Holmberg, 1124 Myrtle Ave.

Albee, D. n s, 40' e East 21st St., two-sty frame dwell, 25' x 29' 9", shingle roof; \$4,075; own., J. Travis, Grant St., Flatbush; arch., John J. Pettit, 185 Remsen St.

Newkirk Ave., s s, 80' w East 19th St., two-and-one-half-sty brick dwell, 26' x 39', shingle roof; \$4,000; own., F. C. Kobart, 1335 Pacific St.; arch., M. Richardson, East 19th St.

Grant Ave., w s, 265' n Atlantic Ave., 2 two-sty frame dwells, 18' x 28', gravel roofs; \$2,000 each; own., Wm. E. King, 28 Dodworth St.; bld., John H. King, 9 Arlington Ave.

Grant Ave., w s, 160' s Adams Ave., two-sty frame dwell, 20' x 50', gravel roof; \$3,000; own., H. A. Permechief, 571 Gates Ave.

Second St., s s, 80' w 6th Ave., 5 four-sty brick dwells, 19' 6" x 62', tin roofs; \$6,500 each; own., Louis Bonert, on premises; arch., Robt. Dixon, 219 Montague St.

Prospect Pl., n s, 129' w Underhill Ave., four-sty brick dwell, 21' x 56', tin roof; \$4,500; own., T. D. Lyons, 268 St. Marks Ave.; arch., Peter M. Cassidy, 922 Pacific St.

St. Marks Ave., n s, 200' w Buffalo Ave., three-sty frame dwell, 25' x 60', tin roof; \$5,000; own., and bld., Joseph Scholl, 12-7 St. Marks Ave.; arch., Wm. H. Waldron, 1873 Pacific St.

Fifty-eighth St., n s, 100' w 3 Ave., 2 three-sty frame dwells, 30' x 53', tin roofs; \$5,800; own., M. J. D. Remme, 270 10th St.; arch., P. Bornvaret, Ave. C, West Brooklyn.

Propect Pl., s s, 250' e Rochester Ave., 6 two-sty frame dwells, 16' 8" x 40', tin roofs; \$2,300 each; own., J. L. Breh, 116 Rochester Ave.

Chicago, Ill.—F. P. Sherman, two-sty dwell, 568 Boulevard Pl.; \$5,000.

J. C. Hendrix, 4 cottages, 324-330 Mead St.; \$3,000.

BUILDING INTELLIGENCE.

(Houses Continued.)

W. H. Bowman, 5 cottages, 3736-3744 Kedzie Ave.; \$5,000.

W. Best, three-sty dwell, 4331 Drexel Boulevard; \$4,500.

Mrs. Emmons Blaine, three-sty dwell, 342-346 Erie St.; \$60,000.

Anton Hofhen, two-sty dwell, 5421 Calumet Ave.; \$3,000.

Philadelphia, Pa.—Bellfield Ave., n e s, n Penn St., 6 two-sty brick and stone dwell; bld., Eli Leach, 5557 Hancock St.

Corinthian Ave., No. 829, three-sty brick dwell, with back building; con., Charles A. Bunch, 26 North 37th St.

Clearfield St., n s, w 13th St., 12 two and three-sty brick dwells, and 2 stores and dwells, with back buildings; own. and bld., Henry G. Schultz, 2533 Germantown Ave.

Hopper St., n s, above 49th St., 23 two-sty brick dwells, with back buildings; own., James E. Clark, 2006 South 13th St.

Ripka Ave., s s, e Washington St., two-sty brick dwell, with back building; bld., Joseph F. Welsh, 2006 North 29th St.

Tenth St., e s, 70' n Westmoreland St., two-sty brick dwell; own., James Morrissey, 3309 North 10th St.

Twenty-first St., w s, n Berks St., three-sty brick dwell, with back building; own., Samuel Morrison, 3625 North 5th St.

Daily St., n s, e 11th St., 7 two-sty brick dwells; own., Alexander Cowan, 2239 South 5th St.

Salmon St., w s, n Orthodox St., 2 two-sty brick dwells, with frame back buildings; own., Frederick Breininger, 4545 Salmon St.

Baltimore Ave., Nos. 4709-4715, 4 three-sty brick dwells; own., Charles G. Henderson, Jr., Baltimore Ave. and 48th St.

Lex St., e s, bet. Brown and Aspen Sts., 2 two-sty brick dwells; own., Charles Smith & Son, 4215 Haverford St.

Lenox Ave., s s, above Broad St., 15 two-sty brick dwells; con., William A. Margeren, 924 Mt. Vernon St.

McKean St., s s, e Tenth St., 3 two-sty brick dwells, with back buildings; own., Mowbray Bros., 1231 South 15th St.

Sixty-third St., s w s, bet. Greenley and Woodland Aves., two-sty brick dwell, with back building; con., B. H. Downard, Wilmington, Del.

Scott St., No. 1907, two-sty brick dwell; con., Charles D. Hill, 1511 North 27th St.

Forty-fifth St., e s, from Ludlow to Chestnut Sts., 7 three-sty stone and brick dwells, with back buildings; own., Gibson & Co., 2304 Federal St.

Humboldt St., s s, bet. G and H Sts., 3 two-sty brick dwells, with back buildings; own., Henry McClary, con., Joseph McNutt, 2035 Stella Ave.

Pottstown, Pa.—Hanover St., n King St., ground has been broken for a dwell, for P. L. Egolf, lumber merchant; con., Mathias Geist.

St. Louis, Mo.—Three-sty dwell and store, n s Cook St., bet. Sarah and Whittier Sts., \$12,000; own. and bld., J. Trier.

Two-and-one-half-sty dwell, w s 7th St., bet. Lami and Barton Sts.; \$6,000; own., Charles Krahm; not let.

Two-sty dwell, n s Pine St., bet. Sarah and Boyle Sts.; \$8,000; own., Levi & Epstein; bld., Steel & Cole.

Two-and-one-half-sty dwell, n s Westminster St., bet. Vanderventer and Sarah Sts.; \$11,000; own., L. Garrison; bld., C. B. Cormack.

Two-sty dwell and store, n w cor. Laclede and Spring Sts.; \$7,500; own., J. Griffin; bld., C. Lindemann.

Two-sty dwell, s s Westminster St., bet. Taylor and Walter Sts.; \$14,000; own., A. Rosenheim; bld., Weber & Son.

Three-sty dwell and store; n e cor. Easton and Marcus Sts.; \$9,000; own., J. Grill; bld., Flannery.

Two-sty dwell, s s Lindell St., bet. Grand and Spring Sts.; \$12,000; own. and bld., J. Drummonds.

Two-sty dwell, w s Pennsylvania St., bet. Geyer and Lafayette Aves.; \$7,000; own., J. Gruegemann; bld., W. Heim.

Worcester, Mass.—Clifton St., two-sty frame dwell; own., W. R. Dame; con., C. A. Stone.

Winchester Ave., two-sty frame dwell; own., Capt. Angus Henderson; con., H. L. Putnam.

STABLES.

Baltimore, Md.—Three-sty brick stable, 41' 6" x 15', 225 Madison Ave.; own., Saml. A. Rice, 1711 East Baltimore St.; arch., Henry Thurman; \$20,000.

Germantown, Pa.—Willow Grove Ave., n w cor. 23d St., one-sty stone stable; con., William J. Grubler, 46 Herman St.

BUILDING INTELLIGENCE.

(Stables Continued.)

Holmesburg, Pa.—Two-sty brick stable; con., Charles McCaul, 10 North 11th St., Philadelphia.

Philadelphia, Pa.—Bancroft St., w s, n Snyder Ave., two-sty brick stable; con., James M. Applegate, 1703 Dorrance St.

Edvard St., s s, bet. Hancock and Second Sts., two-sty brick and iron stable for brewery, 40' x 123'; about \$20,000; own., C. Schmidt & Son; con., Levering & Garrigue, 3302 Ludlow St.

Kalos St., near Ridge Ave., one-sty brick stable; own., C. S. Heineman, 3717 Ridge Ave.

Spring Garden St., rear, No. 1224, two-sty brick stable; con., Philip D. Giacomo, 2227 Cambridge St.

South Broad St., rear, No. 1523, two-sty stone and brick stable; con., Harry Kettler, 1145 South 8th St.

Richmond St., s s, e n Ann St., one-sty brick stable; con., Charles Judge, 3014 Richmond St.

Plans have been prepared by H. D. Dagitt, architect, 706 Walnut St., for a stable, 36' x 88', to be built on Crown St., to accommodate 30 horses.

Wisahickon, Pa.—Kalos St., s s, e Manayunk Ave., two-sty brick and stone stable; con., A. A. Harner, Freeland Ave.

STORES.

Brooklyn, N. Y.—Third Ave., n w cor. 56th St., four-sty brick store and dwell, 25' x 73', tin roof; \$11,000; own., Wm. Peter, on premises; arch., Jas. J. Quresety, 1168 Fourth Ave.

Sixtieth St., s s, 200' w 13th Ave., 2 two-sty frame stores and dwells, 29' x 16', tin roofs, \$2,800 each; own., P. Gustafson, 60th St., bet. 12th and 13th Aves.; arch., F. Lihonen.

Camden, N. J.—Federal St., n e cor. 3d St., four-sty buff brick and Indiana limestone grocery store, 44' x 65', with hall above; own., Thomas L. Gifford, Berkley St. and Broadway; con., William Severns, 362 Berkley St.

Sycamore St., s e cor. Louis St., two-sty brick store and dwell, 38' x 70'; own., William Rase, 1146 Sycamore St.

Chicago, Ill.—H. Emme, two-sty store and dwell, 1299 Lincoln Ave.; \$3,600.

M. Henkle, three-sty store and flats, 591 West North Ave.; \$4,000.

G. L. Envin, Jr., three-sty store and flats, 372 South Western Ave.; \$8,000.

H. J. Merquard, three-sty store and flats, 367 North Kedzie Ave.; \$7,500.

Mrs. C. W. Clark, three-sty store and flats, 452 Sixty-third St.; \$10,000.

Freil Spang, two-sty store and flats, 353 Roscoe St.; \$3,600.

M. Houlihan, two-sty store and flats, 3300 South Ashland Ave.; \$4,300.

E. S. Pike, nine-sty store, 79-81 Fifth Ave.; \$28,000.

J. C. Hendrick, 4 four-sty stores and flats, 4840-4846 State St.; \$18,000.

C. Schoeder, three-sty store and flats, 522 North California Ave.; \$4,000.

John Hanrahan, three-sty store and flats, 4351 Cottage Grove Ave.; \$5,000.

Sweet, Dempster, Picher & Ismond, four-sty store and flats, 4028-4030 Cottage Grove Ave.; \$30,000.

Gilbert Hawkinson, 2 four-sty stores and flats, 326-328 West Erie St.; \$10,000.

Philadelphia, Pa.—Jasper St., s e cor. Front St., three-sty brick store, 28' x 60'; con., Morrison & Kearney, 2426 Howard St.

Moyamensing Ave., s w cor. McClellan St., three-sty brick store and dwell, with back building; con., Daniel Neveling, 2506 Mascher St.

South St., s w cor. 13th St., three-sty stone and brick store, 22' x 58'; con., George L. Harvey, 1710 Rittenhouse St.

D St., e s, s Ontario St., three-sty brick store and dwell, with back building; con., Wm. J. Manning, Ontario and D Sts.

Daily St., n e cor. 11th St., three-sty brick store and dwell; own., Alexander Cowan, 2239 South 5th St.

Fortieth St., below Locust St., three-sty Pompeian brick and stone drug store and dwell, 25' x 90'; to be occupied by Charles E. Keeler; arch., Angus S. Wade, Chestnut and Juniper Sts.

St. Louis, Mo.—Three four-sty stores, n s Pine St., bet. 7th and 8th Sts.; \$16,000; own., Van Studdiford; bld., C. B. Cormack.

Three-sty store and dwell, s s Chestnut St., bet. 16th and 17th Sts.; \$9,000; own. and bld., A. B. Carpenter.

WAREHOUSES.

Baltimore, Md.—Six-sty brick warehouse, 68' x 70', w s Garrett St., bet. Park Ave. and Howard St.; own., Townsend, Grace & Co., 209-211 West Fayette St.

One-sty and two-sty brick warehouses, each 75' x 75', n s Hughes St., bet. Williams St. and Battera Ave.; own., R. S. Smith.

THE AMERICAN ARCHITECT

AND BUILDING NEWS

ADVERTISERS' TRADE SUPPLEMENT.

No. 147.

SATURDAY, SEPTEMBER 1, 1894.

VOLUME XLV.
No. 373.

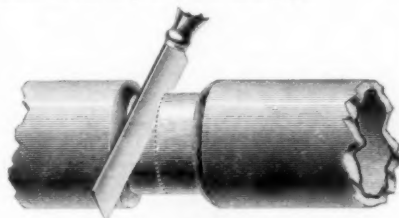
LEAD-LINED IRON PIPE AND FITTINGS FOR SUPPLY, VENTILATION AND SOIL PIPE.

This pipe consists of standard wrought-iron water-pipe and malleable iron fittings lined with commercially pure lead.



Cut A.

We claim that this pipe has the rustless qualities of lead pipe with the strength of iron pipe; and it is at the same time very much lower in price than lead pipe.



Cut B.

When coupled together the lining forms a continuous lead pipe, which entirely protects the iron from the action of the water. It is now used in forty cities and towns in New England for service-pipe.



Cut C.

In fitting a length of this pipe, we first cut the iron pipe in the ordinary manner (see *Cut A*), taking care not to cut the lead lining at the same time; then we take hold of each side of the cut and stretch the lining about



Cut D.

half an inch, then cut it (see *Cut B*) so as to leave room for turning the edge (see *Cut C*), over the end of the iron pipe; or the lining may be cut at the same time as the

iron, and drawn out by means of a tool designed for the purpose, but not shown in the cuts. It will be noticed that the thread cut on the iron pipe is cut down to the lead on the end of the pipe (see *Cut D*), so that when it is screwed into a fitting or a stop-and-waste, the thread on the stop-and-waste or other fitting screws is closely against the lead lining (which is turned over the end of the iron pipe), so that no portion of the iron is exposed to the action of the water.

Our couplings (see *Cut E*), elbows, T's and all fittings are lined with lead, as you see in the cut, and have a part of the thread at each end of the fitting formed in the lead lining. Thus, when the fitting is screwed up, the end of the pipe projects several turns into the lead thread of the fitting, and the lead lining of the pipe is packed closely against the lead lining of the fitting, making a water-tight lead joint. By this method every particle of iron in the pipe couplings, or any of the fittings is entirely protected from any possible contact with water.

[Extract from the Annual Report of the Water Commissioners of the City of Pawtucket, R. I., for the year 1893.]

"We are now using for all services what is known as the New England Water Pipe Co.'s lead-lined iron pipe. We have had an experience with it for the past two years, and believe it to be safe and responsible. It

practically makes a lead service, and at one-half the cost of lead pipe, which, under our pressure, causes expansion and leakage."

[Letter from Listers Agricultural Chemical Works.]

"Dear Sir,—In answer to your letter of the 7th instant, would say: We have a line three hundred feet long of two-inch lead-lined water-pipe that we pump sulphuric acid through about once an hour, at forty-pound pressure to the square inch. It has been in use about three months, taking the place of a two and one-half inch lead pipe. It has given entire satisfaction, having had no leaks or trouble with it so far. We are,

Yours respectfully,

LISTERS A. C. WORKS,
WM. CARSON, Chief Engineer."

More than two years ago, this company asked Mr. Thomas D. Lockwood, Electrician and Chemist for the American Bell Telephone Co., to give his written opinion as to whether or no any galvanic action would take place between the lead and iron in this pipe. The following is an extract from that opinion:

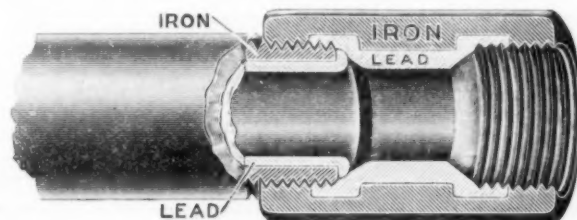
"I am, therefore, of the opinion that the compound iron-lead pipe used to convey water is not liable to corrosion or deterioration by reason of galvanic action between the said two metals; that the water will not in any sense be acted on adversely by such combination of metals and any result accruing therefrom.

(Signed) THOMAS D. LOCKWOOD,
Electrician and Chemist of American Bell Telephone Co., Boston."

NEW ENGLAND WATER PIPE COMPANY,
WAKEFIELD, MASS.

SILVER GRAYS AND MOSS GREENS.

SILVER grays and moss greens are at present the most popular colors for suburban shingled houses, and to meet the demand for them a great variety of shades of these two colors has been formulated in Creosote Shingle Stains. These Stains were the first ever made, and have been first ever since: first in durability, in purity, and in the production of new and artistic tints. Any architect who has in mind a particular scheme of color which he desires to produce can always have special shades of these stains made to suit his requirements, or any one who wishes something



Cut E.

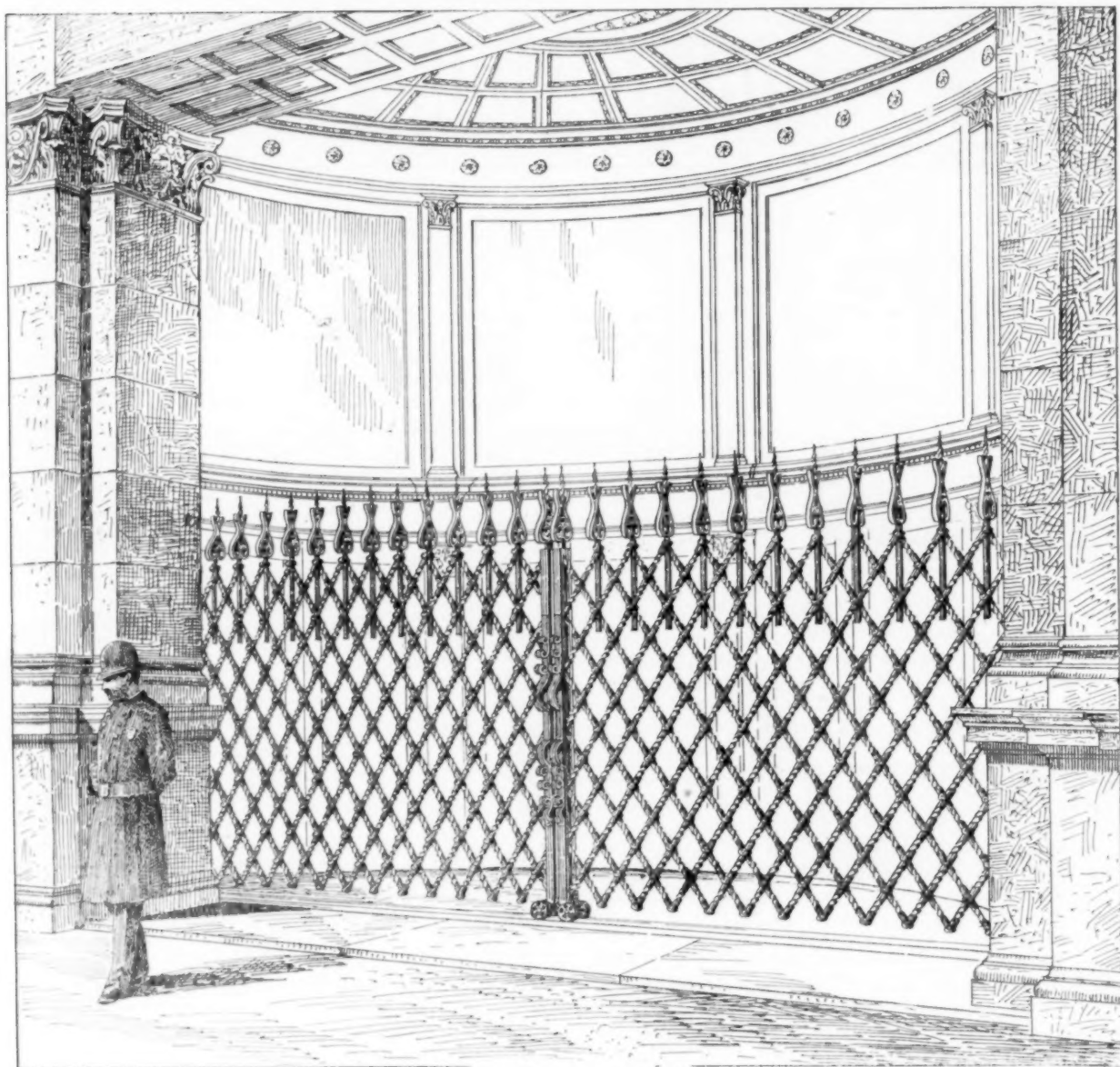
different from the colors shown in the regular list of samples can have his choice of hundreds of these specials which have already been made.

The guaranty of the manufacturer that the stains are durable, that they are unadulterated, and that they will not blacken with age, is of no small importance in the eyes of architects and their clients.

SAMUEL CABOT,
BOSTON, MASS.

THE Globe Ventilator Company of Troy, N. Y., continues to secure exalted proof of the satisfactory character of its ventilators. Two 60-inch Globe Ventilators have just been placed on the Powers House, at Rochester, N. Y.

THE
WILLIAM R. PITT
COMPOSITE
IRON WORKS,
202 FIFTH AVENUE,
COR. TWENTY-FIFTH ST. NEW YORK.



PATENTED JANUARY 13, 1891.

STEPHEN D. HATCH,
ARCHITECT.

ENTRANCE TO THE ROOSEVELT BUILDING,
BROADWAY AND THIRTEENTH STREET,
NEW YORK.

MARK EIDLITZ & SON,
BUILDERS.

THE ABOVE IS ONE OF THE IMPROVED PITT PATENT FOLDING GATES MADE IN BRONZE METAL. THE GATE IS 8 FEET 6 INCHES HIGH AND TWENTY-TWO FEET WIDE.

AS A RULE, FOLDING GATES ARE NOT ARTISTIC IN DESIGN, BUT IT IS OUR CONSTANT AIM TO PRODUCE THEM IN ATTRACTIVE FORM, AND WE HAVE SOME EXCELLENT DESIGNS IN GATES WHICH FOLD SO AS TO OCCUPY THE LEAST POSSIBLE SPACE.

THESE GATES ARE SUITABLE FOR LARGE OFFICE BUILDINGS AND FINE STORE FRONTS. THEY TAKE UP LESS ROOM THAN THE MASSIVE SWINGING DOORS, AND WHEN MADE IN BRONZE METAL COST LESS THAN THE RIGID GATES.

ARCHITECTS SHOULD SPECIFY THE "PITT" PATENT GATES AND THEN SEE THAT THEY GET THE RIGHT ONES.

WE ARE KEEPING UP OUR REPUTATION FOR GOOD WORK IN ALL OUR LINES AND IF YOUR FOLDING GATES, GRILLES, RAILINGS AND LAMPS ARE MADE BY US YOU MAY BE ASSURED OF ARTISTIC DESIGN AND GOOD WORK.

STAR, STETTIN, PORTLAND CEMENT

is of high tensile strength, great fineness and uniformity, and permits a larger addition of sand and stone than cements of average good quality. The uniform light color and its great resistance to wear make it very desirable for sidewalk and artificial stone construction, and taking a very high polish it is specially adapted for the manufacture of Colored Cement Tiles, the laying of marble mosaic and tiling. The excellent qualities of the Star brand have made the name of Stettin, where the works are located, famous in connection with Portland Cement. This good reputation should, however, not be credited to other brands shipped at or named "Stettin," but each should be judged on its own merits.

Pamphlet with full description and instructions for testing and the employment of Portland Cement will be mailed free on application.

E. THIELE, 78 William St., New York.
SOLE AGENT FOR THE UNITED STATES.

THE NEW DEAFENER

CABOT'S

SHEATHING

"QUILT"



CABOT'S

SHEATHING

"QUILT"

Costs less than 1 cent a square foot and is three times as good as felt.

"QUILT" is so called because the long, flat blades of sea grass of which the wadding is composed are held in place between the two layers of manilla paper by quilting. The laminated construction of the fibre forms innumerable dead air spaces, giving almost perfect sound-deafening conditions. For sheathing and insulation in refrigerators, cold storage warehouses, etc., it is remarkably effective, one thickness equalling six of the rosin-sized paper commonly used for such purposes.

A sample Quilt and full particulars will be sent upon application.

SAMUEL CABOT, SOLE MANUFACTURER,
70 Kilby Street, BOSTON, MASS.

S. J. PARKHILL & CO.
PRINTERS

226 Franklin St., Boston, Mass.

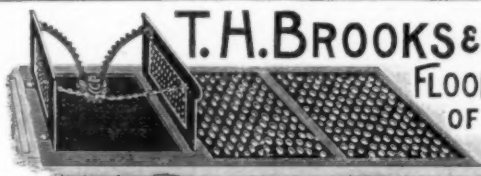
BOOK AND MISCELLANEOUS PRINTING
ILLUSTRATED TRADE CATALOGUES
TOWN HISTORIES AND GENEALOGIES

Electrotyping and Stereotyping
Mercantile and Commercial Printing

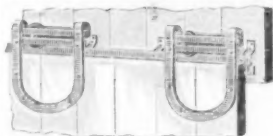
With all the most approved modern machinery and material in each department, the excellence of the work at fair prices is assured.

Works on Architecture a Specialty

Information regarding work in any department will at all times be cheerfully and promptly furnished, either personally or by correspondence.

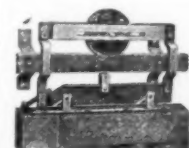


T.H. BROOKS & CO. CLEVELAND, O.
FLOOR & SIDEWALK LIGHTS.
OF EVERY DESCRIPTION.
SEND FOR CATALOGUE.



LANE'S Patent Steel Barn Door Hanger.

ANTI-FRICTION. MOST COMPLETE IN CONSTRUCTION.
MATERIAL THE BEST. NO BREAKAGE.
Ease of Movement. Always in Order.



LANE'S Patent Noiseless Steel Parlor Door Hanger.

Hanger is made of steel throughout, including wheel, except solid interior leather tread, causing to roll noiselessly.
Single steel track instead of double wood rail.

Ask your Hardware dealer, and send for Circular.

Manufactured by LANE BROTHERS, Poughkeepsie, N. Y.

ALSEN'S PORTLAND CEMENT

is the strongest and most serviceable Cement made, and will permit the admixture of a larger amount of sand or gravel with less loss of strength than any other brand; it is therefore the most economical. It is the finest ground cement made, and has the largest bulk to the barrel.

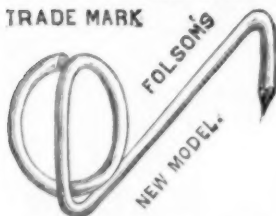
The following test, made in actual work, by Col. D. C. Houston, Corps of Engineers, U. S. A., at the sea wall around Governor's Island, New York Harbor, has never been equalled by any other cement. It is as follows: Tensile strength per square inch, one day, 384 pounds; seven days, 600 pounds; thirty days, 818 pounds.

For Sidewalks it gives the best color, and the most durable wearing surface. Most of the prominent Railroad Bridges and the large Office Buildings of the country stand upon a foundation of concrete made of ALSEN'S CEMENT.

Alsen's Portland Cement Works, New York Office, 143 Liberty Street.

FOLSOM'S PATENT SNOW GUARDS

TRADE MARK



For Old
and
New Roofs.

Correspondence
solicited.

FOLSOM SNOW GUARD COMPANY,
33 Lincoln St. - - - BOSTON.



7 BOWLING GREEN,
NEW YORK.

ENGLISH PORTLAND CEMENT.

JUST PUBLISHED, Monumental Staircases

BEING NO. 2 OF A SERIES

OF

ARCHITECTURAL ODDS AND ENDS.

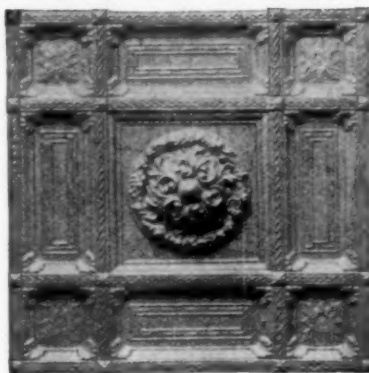
40 Gelatine Prints.

\$5.00 PER COPY.

For sale at this office,

211 Tremont Street. - Boston.

SECTIONAL PANEL STEEL CEILINGS.



ELEGANCE

The Superior Merits of our Steel Ceilings and Side Wall Plates are

DUST PROOF JOINTS

Mouldings varying in depth from 1-16 inch to 2 1-4 inches.

VARIETY INDEFINITE.

Sagendorph's Patent Sectional Steel Products Excel and Exceed all others combined. Ceilings and Side Walls Perfection Intact.

SOLE MANUFACTURERS,

THE PENN IRON ROOFING AND CORRUGATING CO
(LIMITED),
PHILADELPHIA, PA.

GOOD MORNING, ARCHITECTS!

PARTICULARS ABOUT CHURCH LIGHTING READY TO SERVE YOU.

WRITE THIS ON A POSTAL.

I. P. FRINK,
551 Pearl St., New York City.

**It's our Business
to furnish archi-
tects with labor-
saving lighting
information.**

DEAR SIR:— Kindly send me your literature and information regarding the lighting of churches and public buildings.

Name _____

Address _____

**We're the lar-
gest church light-
ers in the world.**

THE AMERICAN ARCHITECT

AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. XLV.—No. 967.]

SATURDAY, JULY 7, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS.
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Ricker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE.
Louis De Coppet Berg.

PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.

COOPER INSTITUTE.
E. A. Miller.

INSTITUTE OF ARTIST-ARTISANS.
140 West 23d Street.
John Ward Stimson.

METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.
S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Truscott.

UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

[Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.

CONSTRUCTION.

BERG, LOUIS D'C. Two Vols., each \$5.00
"Safe Building."
New York (66 Fifth Ave.): Macmillan & Co.

CHANDLER, P. W. \$10.00
"Construction Details."
Boston (211 Tremont St.): Heliotype Printing Co.

CLARK, T. M. \$3.00
"Building Superintendence." Outa.
New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts. \$2.00 each.
Architectural Rendering in Pen and Ink.
Boston (211 Tremont St.).

WARE, WILLIAM R. PROFESSOR. \$5.00
"Modern Perspective."
New York (66 Fifth Ave.): Macmillan & Co.

STYLES.

GOTCH, J. A., and W. T. BROWN 6 Parts, \$48.00
Four Parts now ready
"Architecture of the Renaissance in England."
New York (743 Broadway) Charles Scribner's Sons.

WHITTIER MACHINE CO., ELEVATORS,

53 STATE STREET - - BOSTON.
93 LIBERTY STREET, NEW YORK.
526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD
For all kinds of
PASSENGER AND FREIGHT ELEVATOR SERVICE.
OTIS BROTHERS & CO.,
NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,
ELEVATOR AND MACHINE WORKS,
COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.
STEAM AND HYDRAULIC,
For Freight and Passenger use.

ELECTRIC ELEVATORS. THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,
For passenger and freight service.
Large experience. Many in use.
First cost moderate.
Running Expense much less than Hydraulic.
Also makers of low-speed Perret Electric Motors and Dynamos.
General office and factory, Springfield, Mass.
NEW YORK OFFICE, 126 Liberty Street.
BOSTON OFFICE, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES,
For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate. References, Principal Architects and Decorators of New York.
AESCHLIMANN & PELLARIN,
37 CLINTON PLACE,
Between Broadway and University Place, New York.

SANITARY CONDITION OF
DWELLINGS examined by T. H. DUGGAN,
Plumber, 141 DARTMOUTH STREET, BOSTON.
Fine Plumbing Materials, First-class Workmanship.
Telephone call, Tremont No. 165.

F. O. NORTON CEMENT CO.,
Manufacturer of HYDRAULIC CEMENT.
Certificates of Tests and Reports on actual use furnished on application. 92 BROADWAY, N. Y.

STANDARD ELEVATOR CO., HIGHEST GRADE

PASSENGER }
AND } ELEVATORS.
FREIGHT }

OFFICE AND WORKS,

15th Street and Ashland Ave.,
Chicago, Ill.

PENN ELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.
PASSENGER AND FREIGHT ELEVATORS,
every description.
See our new Electric and Hydraulic before purchasing.
Works, Bloomsburgh, Pa.
Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.
GENERAL OFFICE, PALMER, MASS.

We contract to perform all labor and furnish all material of the different classes required to build complete
CHURCHES, HOTELS, MILLS, PUBLIC
BUILDINGS AND RESIDENCES.
Also for the construction of
RAILROADS, DAMS AND BRIDGES.

We solicit correspondence with those wishing to place the construction of any proposed new work under ONE CONTRACT, which shall include all branches connected with the work. To such parties we will furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO., STAINED GLASS & DECORATIVE WORK.

Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.

Sole Agents for
CLAYTON & BELL, GLASS STAINERS, LONDON.
61 Washington Square, South, New York, N. Y.

"TIFFANY GLASS & DECORATING COMPANY"

FURNISHERS OF GLASS WORKERS DOMESTIC & ECCLESIASTICAL

DECORATIONS - G.D. MEMORIALS

333 TO 341 FOURTH AVENUE NEW YORK

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHERE & Co.),

Importers and Workers of

MARBLE, ONYX AND GRANITE,

425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

ROBERT C. FISHER & CO.,

Successors to FISHER & BIRD,

MARBLE AND GRANITE WORKS,

97, 99, 101 and 103 EAST HOUSTON STREET,

Established 1830. NEW YORK.

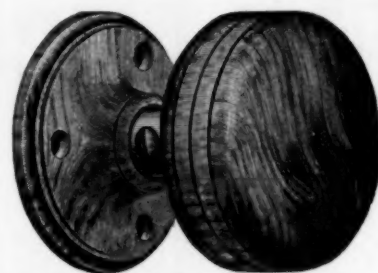
ARCHITECTS are employed to protect the interests of their clients; are paid to give them the benefit of their taste and practical knowledge—not only in design but in materials. In paints why not specify the brands of White Lead known to be

Strictly Pure White Lead

"ANCHOR" (Cincinnati).
"ARMSTRONG & McKELVY" (Pittsburgh).
"ATLANTIC" (New York).
"BEYMER-BAUMAN" (Pittsburgh).
"BRADLEY" (New York).
"BROOKLYN" (New York).
"COLLIER" (St. Louis).
"CORNELL" (Buffalo).
"DAVIS-CHAMBERS" (Pittsburgh).
"ECKSTEIN" (Cincinnati).
"FAHNESTOCK" (Pittsburgh).
"JEWETT" (New York).
"KENTUCKY" (Louisville).
"JOHN T. LEWIS & BROS. CO." (Phila.)
"MORLEY" (Cleveland).
"MISSOURI" (St. Louis).
"RED SEAL" (St. Louis).
"SALEM" (Salem, Mass.).
"SHIPMAN" (Chicago).
"SOUTHERN" (St. Louis and Chicago).
"ULSTER" (New York).
"UNION" (New York).

To color Strictly Pure White Lead any desired shade, use National Lead Co.'s Pure White Lead Tinting Colors. Send to us for sample card and information about painting.

NATIONAL LEAD CO., New York.



WOOD DOOR KNOBS,

DOOR SPRINGS AND CHECKS,
and CHECKING SPRING HINGES.

NEW GOODS. — NEW PRICES.
Send for new Price List.

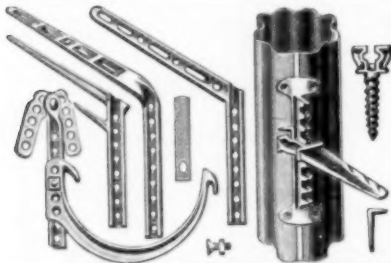
J. BARDSLEY,

149 and 151 Baxter Street, NEW YORK

RITCHIE'S PATENT CORRUGATED EXPANDING CONDUCTOR.

(See our advertisement last week.)

LAMB & RITCHIE, Cambridgeport, Mass.



THE BEST EAVE TROUGH HANGERS AND PIPE FASTENERS ON EARTH.

Also BERGER'S LONG EAVE GUTTERS, PIPE HOOKS AND FASTENERS of every description, RIDGING CRIBS, FINIALS, REGISTERS AND VENTILATORS, and samples and catalogues free.

BERGER BROS.

227 Arch Street, Philadelphia, Pa.

PORCELAIN LINED REFRIGERATORS

and Cooling Rooms under the
Wickes System.

Mechanical Refrigeration under
the Westinghouse System.

WICKES REFRIGERATOR COMPANY,
860 Broadway, N. Y.



Unequaled for all purposes
for which Portland Cement
is used. Tests and Testimo-
nials of Engineers, and "How
to Use Portland Cement,"
sent free on application.

BUCKEYE PORTLAND CEMENT CO.,
BELLEVILLE, OHIO.

WOOD-CARPET THE VERY BEST MATERIAL FOR

BORDERS FOR RUGS

Also for Covering Parlors, Dining, Sitting and
Bath Rooms, Libraries, Offices, Stairs, Stores,
etc. Send stamp for Book of Designs.

E. B. MOORE & CO., 48 Randolph Street, Chicago, Ill.

ESTABLISHED 1853.

HOWSON & HOWSON,
COUNSELLORS AT LAW,
SOLICITORS OF PATENTS.

Philadelphia Offices: 119 South Fourth Street,
New York: Potter Building, 38 Park Row,
Washington, D. C.: 915 F. Street.

BUILDING MATERIALS.

	New York.	Boston.	Chicago.	Philadelphia.
Foundation:	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
Dimension.....	5 00 P ton.	20	5 00	
Block.....	4 60 P perch.	20	Conshocken	
Rubble.....	1 25 @ 1 50	8 50 @	1 45 @ 2 50	
Bluestone: P sq. ft.				
Sidewalk.....	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in. th. 10 @ 25
Planed.....	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow.....	@ 80	80 @ 90	@	95 @ 1 05
Kibbe.....	@ 90	90 @ 1 10	@	85 @ 95
Brown (Connecticut).....	1 00 @	1 25 @ 1 45	1 50 P cub. ft.	1 05 @ 1 25
Amherst Ohio.....	90 @ 95	90 @ 1 00	45 @ 50	85 @ 95
Berea ".....	75 @ 1 00	85 @ 90	45 @ 55	55 @ 75
Berlin ".....	75 @ 1 00	80 @ 90	55 @ 65	85 @ 95
Belleville.....	80 @ 1 25	25 @ 1 35	@ 1 25	1 00 @ 1 10
New Brunswick (Dorchester).....	@ 1 00	75 @ 90	@	1 05 @ 1 15
Caen.....	@	L @ 2 00	@	1 25 @ 1 35
Carlisle, English.....	@ 1 05	L @ 1 05	@	95 @ 1 05
Corse Hill (Scotch).....	@ 1 05	1 @ 1 05	@	95 @ 1 05
Marble: P cu. ft.				
Leo, Mass.....	@	1 75 @ 2 50	Not Sold.	2 00 @ 2 50
Rutland, white and blue.....	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls.....	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black.....	@	@	Not Sold.	4 00 @ 4 50
Italian, blue-veined.....	@	@	@ 4 40	2 50 @ 2 75
Sienna.....	@	@	Not Sold.	@ 5 00
Tennessee, red.....	@	@	@ 4 40	4 00 @ 6 00
Knockville.....	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue.....	@	@	Not Sold.	2 00 @ 3 00
Vermont, white.....	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing P square.				
green.....	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
unfading.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
purple.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
red.....	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
black, Lehigh.....	4 25 @ 4 75	@	6 25 @ 6 85	90 @ 4 00
Chapmans.....	@	@	7 30 @ 8 00	90 @ 4 65
Unfading black, Brownville, Me. Monson.....	6 00 @ 8 50	6 00 @ 8 50	6 50 @ 9 50	6 60 @ 8 60
5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	6 00 @ 9 00	5 50 @ 8 00
@	@	Not Sold.	Not Sold.	@ 25 00
8 00 @	8 00 @	8 00 @	8 00 @	6 00 @ 6 75
PAINTS: (Per Gal P lb.)				8 00 @
White lead, Am.....	7 @ 7 1/2	6 @ 6 1/2	7 @ 7 1/2	@ 7 1/2
zinc.....	5 @ 8 1/2	@ 8	5 @ 10 1/2	@ 8
Red lead, Am.....	6 1/2 @ 7	6 @ 6 1/2	6 1/2 @ 7	@ 7 1/2
Venetian.....	6 @ 10 1/2	7 @ 12	1 1/2 @ 2 1/2	dry Eng. @ 7
Vermillion.....	65 @ 70	60 @ 65 dry	65 @ 68	Eng. @ 76
Indian, Eng.....	12 @ 20	12 @ 20	12 @ 20	dry Am. @ 1 1/2
Yellow Ochre.....	6 @ 15	7 @ 12	3 @ 15	@ 18
Chrome.....	12 @ 20	18 @ 25	15 @ 25	@ 21
Green (chrome).....	8 @ 13	8 @ 20	8 @ 20	@ 20
Green, Paris.....	25 @ 40	25 @ 30	18 @ 35	" 15 @ 20
Black, lamp.....	15 @ 25	15 @ 25	12 @ 35	8 @ 12
Blue, ultramarine.....	12 @ 18	18 @ 30	57 @ 60	10 @ 24
Oil, linseed, (raw).....	55 @ 62	56 @ 58	60 @ 63	@ 63
" boiled.....	58 @ 65	59 @ 61	40 @ 42	@ 44
Turpentine.....	36 @ 37	@	1 25 @ 2 00	125 @ 3 00
Varnish, coach.....	@	1 50 @ 6 00	2 25 @ 4 00	150 @ 3 00
Shellac.....	@	2 50 @ 3 00	2 @ 2 1/2	2 @ 2 1/2
Putty.....	2 @	2 @ 4	1 @ 1 1/2	1 @ 1
Whiting.....	75 @ 1 00	1 @ 1 1/2	1 @ 2	1 @ 2
Paris white, (Eng.).....	1 30 @ 2 00	1 1/2 @ 2	6 @ 7	4 @ 14
Litharge, Am.....	5 @ 6	6 @ 6 1/2	4 @ 16	2 @ 13
Sienna (burnt).....	14 @ 20	14 @ 20	2 @ 10	@
Umber.....	14 @ 20	14 @ 20	@	@
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought.)	@ 2 85	@	2 35 @ 3 50	per keg @ 2 25
10d. common.....	@ 2 60	@ 2 00	@ 1 70	@ 2 30
Shingle.....	@ 3 35	@ 2 40	@ 2 10	@ 2 60
Lath.....	@ 4 85	@ 3 10	@ 2 80	@ 4 75
(Finishing nails according to size.)	@	@	Add .50 to \$1.90	per lb 4 @ 6
(For casing nails add 75 c. per keg.)	@	@	40 to .90	2 90 (all kinds.)
Butts: 4" x 4"..... (P doz. pairs.)	@ 1 00	@ 85	@ 90	@ 90
Plain.....	@ 1 50	@ 1 25	Not Sold.	1 35 @ 2 00
Japanned.....	@ 1 50	@ 1 50	2 00 @ 3 75	1 35 @ 2 75
Acorn, Japanned.....	@ 65	@ 40	Not Sold.	48 @ 50
Ball Tip, Boston Finish..... (P pair.)	@ 1 90	plain 1 25	2 00 @ 3 25	@ 1 25
Bronze metal.....	@ 10	@ 10	@ 12	@ 1 00
Brass (for cupboards).....	@	@	@	@ 35
Ebony.....	@	@	@	37 @ 1 00
Apple wood.....	@	@	@	@
Knobs: (P set.)				
Mineral, best.....	@ 8	@ 8	8 @ 10	@ 08
Lava.....	Not Sold.	17 @ 75	31 @ 40	Not Sold.
Honaeite.....	@ 30	@ 10	25 @ 30	@ 25
Porcelain.....	Not Sold.	@ 50	Not Sold.	1 00 @ 2 50
Glass, solid.....	Not Sold.	88 @ 1 00	@ 1 50	1 75 @ 2 00
Glass, silvered.....	75 @ 2 00	80 @ 3 00	50 @ 3 00	50 @ 3 50
Bronze metal.....	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Brass.....	@	@	14 @ 15	13 1/2 @ 16
Solder:				
Sheet Lead.....	@	@ 6 1/2	5 1/2 @ 6	@ 6 1/2
Lead Pipe.....	@	@ 5 1/2	@	6 @ 6
Iron:				
I-Beams, up to and including 30 ft.....	3 3-10 @ 3 1/2	@ 2 50	@ 2 75	@ 2 8-10
do. over 30 ft., 1/4 c. adv. for every 5 ft.	3 3-10 @ 3 1/2	@ 2 50	2 50 @ 2 75	@ 2 8-10
Channel Beams.....	@ 3 1/2	@ 2 50	50 @ 2 75	@ 2 8-10

FIDELITY RANGE.

Pat. Apr. 25, 1890.

ELEVATED BOILER, Plain or Hot Air, Right or Left Hand, with or without Hot Closets. Just the thing for Flats and Small Houses.

Send for circulars.

Isaac A. Sheppard & Co.
PHILADELPHIA
OR BALTIMORE.

WM. KERBY, Agt.
4 Park Slip, New York.



THE H. B. SMITH COMPANY,

MANUFACTURERS OF

HEATING APPARATUS,

STEAM AND WATER,

For Public Buildings and Private Residences.

SPECIALTIES:

"THE UNION" Hot-water Radiators.
BRECKENRIDGE'S Patent Automatic Air Valves.
GOLD'S Improved Sectional Boilers.
MILLS'S Safety Sectional Boilers.
MERCER'S Patent Improved Sectional Boilers.
KEED'S Improved Cast-iron Radiators.
GOLD'S Indirect Pin Radiators.

Office and Warerooms, 137 CENTER ST., NEW YORK.

Foundry, Westfield, Mass.

Catalogues sent on Application.

The "UNION" Radiator.

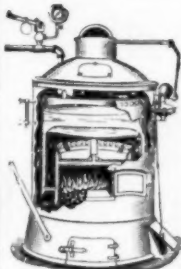
The "Peerless" STEAM and HOT WATER HEATER.

The Simplest, Cheapest and Best.

MECHANICAL DEPARTMENT, PHILADELPHIA, PA.

The Peerless Boiler that I am using is giving good satisfaction.

JOHN WANAMAKER.

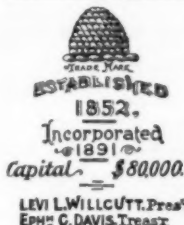


SHELANDOAH, PA., 1887.
The No. 3 "Peerless" boiler placed in my house last fall works like a charm and gives entire satisfaction, heating my entire house and store room. The rooms are comfortable in temperature and free from dust and escaped gas. I am happy in reporting to you that the steam heater you furnished is fully up to what you represented it.

J. J. KELLY. HON. JOHN WANAMAKER.

For Catalogues, Testimonials, Terms, &c., address
GEO. H. BELL & CO., 41 Dey St., New York City, N. Y.
Sole Agents for the United States.

Agents Wanted.



NEW ENGLAND FELT ROOFING WORKS.

22 MILK ST., BOSTON.

Originators of Felt Roofing in New England.

Inventors and only Manufacturers of the Celebrated

"BEEHIVE BRAND."

FOR INFORMATION ABOUT

U. S. MAIL CHUTES

WHICH ARE

A necessity in Office Buildings and Hotels, write to the sole makers,

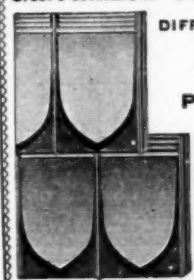
THE CUTLER MFG. CO., ROCHESTER, N. Y. PATENTED. AUTHORIZED.

Galvanized Steel Shingles

DIFFERENT SIZES AND DESIGNS.

SAMPLES FREE.

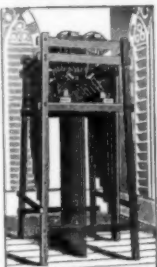
PRICES LOW.



CORTRIGHT METAL ROOFING CO.

Broad & Hamilton Sts., Philada., Pa.

134 Van Buren Street, Chicago, Ills.



TUBULAR CHIME BELLS

Harrington Patents.

Established in England. Introduced here:

Lighter in Weight
Sweeter in Tone
Cheaper in Price
Than the ordinary bell
Catalogue with full description.

U. S. Tubular Bell Co., Methuen, Mass.

BURDITT & WILLIAMS,

Representatives of Leading Manufacturers of

BUILDERS' HARDWARE.

Refer to the prominent Architects of Boston, New York and Washington, as well as to many of the finest Public Buildings and Residences in all parts of the United States.

Branch Office, 20 Dock Square, WASHINGTON, D. C. BOSTON, MASS.



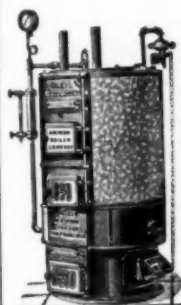
Conservatories, GREENHOUSES, VINERIES,

Shipped to any part of the country, and erected complete, ready for use.

Plans embrace the latest improvements. Unequalled facilities for manufacturing. Thirty-five years' experience. Catalogue sent on application.

Address, stating requirements,

LORD & BURNHAM COMPANY,
IRVINGTON-ON-HUDSON, N. Y.



PROCURE THE BEST by specifying

Gurney Heater Mfg. Co. HEATING AND VENTILATING APPARATUS.

FOR STEAM—"AMERICAN," "FLORIDA," "MODERN," "SOLEIL"
FOR WATER—"ADVANCE," "BOLTON," "PERFECT," "LITTLE GIANT," "SPENCE," "TROPIC."

18 Styles. 174 Sizes.

CAPACITY { STEAM, 100 to 4,200 Square Feet.
WATER, 75 to 7,500 " "

Write for Catalogues and Particulars.

American Boiler Company

"SOLEIL" BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
195 Ft. Hill Sq. 94 Center St. 84 Lake St. 127 6th St.

BUILDING MATERIALS.

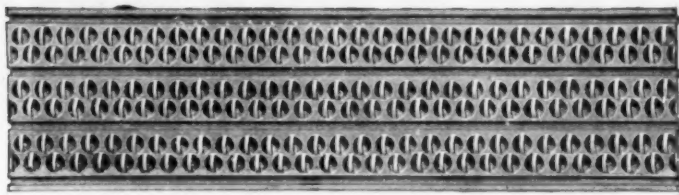
Reported for the American Architect and Building News.

New York. Boston. Chicago. Philadelphia.

(Wholesale Prices.) (Prices to Builders and Contractors.)

LUMBER.—P. M.				
Boards: (Ordinary dimensions.)				
Pine, 1st quality, clear	65 00 @ 75 00	55 00 @ 70 00	42 00 @ 50 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	27 00 @ 38 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	20 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	@ 25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock	ea 134 @ 14	104 00 @ 15 00	@ 12 00	11 25 @ 13 50
Yellow pine	20 @ 40	23 00 @ 35 00	21 00 @ 34 00	14 00 @ 29 00
Cypress	@	28 00 @ 40 00	18 00 @ 34 00	@ 35 00
Clapboards:				
Pine	@	38 00 @ 55 00	19 00 @ 22 50	14 00 @ 25 00
Spruce	@	23 00 @ 38 00	Not sold.	Not sold.
Framing Timber:				
Pine	14 00 @ 18 00	14 00 @ 17 00	12 00 @ 17 50	25 00 @ 37 30
Spruce	12 00 @ 16 00	13 00 @ 15 00	Not sold.	16 00 @ 18
Hemlock	18 00 @ 21 00	20 00 @ 35 00	10 00 @ 13 00	13 00 @ 17
Yellow pine			24 00 @ 34 00	22 00 @ 28
Laths:				
Pine	Slab	2 25 @ 2 50	@ 2 40	2 75 @ 3
Spruce	1 75 @ 1 80	2 00 @ 2 50	Not sold.	2 30 @ 3 00
Shingles:				
Pine, shaved	P. M. 5 00 @ 6 00	@	Not sold.	
Pine, sawed	4 00 @ 5 00	@ 4 50	2 25 @ 2 50	
Spruce, sawed	1 50 @ 2 00	1 50 @ 00	Not sold.	
Redwood	1 40 @ 1 60	3 25 @ 3 75	6 00 @ 7 50	(30" \$35 @ 40
Cedar split	P. M. @	2 00 @ 3 75	Not sold.	24" 8 @ 21
Cedar sawed	@	5 00 @ 6 00	2 60 @ 2 75	20" 35 @ 14
Cypress, Split	18 00 @ 20 00		3 50 @ 4 00	11 00 @ 14 00
Miscellaneous:				
Piles	44 @ 54	Piles 6c. P. ft. 10 00 @ 18 00	Cut to order. P. 10 00 @ 22 00	9 00 @ 13 00
Fence pickets, Common	8 00 @ 10 00	25 @ 50	9 @ 21	40 @ 1 25
Cedar posts, 9 ft. (sq. posts.)	@	25 @ 50	Not sold.	20 @ 30
Chestnut posts	@			
Finishing Woods: P. M. (First)				
Ash	@ 55 00	45 00 @ 60 00	14 00 @ 30 00	42 50 @ 47 50
Cherry	80 00 @ 120 00	90 00 @ 120 00	35 00 @ 90 00	100 00 @ 120 00
Butternut	40 00 @ 60 00	60 00 @ 70 00	17 00 @ 35 00	70 00 @ 80 00
Hard-pine floors (rift)	@ 180 00	42 00 @ 50 00		
Mahogany, Baywood [Mexican]	@ 350 00	160 00 @ 170 00	110 00 @ 170 00	150 00 @ 250 00
Maple	45 00 @ 50 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Oak, red	@ 70 00	45 00 @ 50 00	12 00 @ 20 00	25 00 @ 55 00
" white	@ 70 00	45 00 @ 55 00	40 00 @ 27 00	42 50 @ 55 00
" quartered	@ 90 00	65 00 @ 75 00	16 00 @ 28 00	45 00 @ 55 00
Sycamore quartered		50 00 @ 65 00	34 00 @ 40 00	60 00 @ 75 00
Pine, clear	65 00 @ 70 00	50 00 @ 75 00	25 00 @ 28 00	57 50 @ 65 00
Redwood	60 00 @ 70 00	50 00 @ 70 00	33 00 @ 50 00	@ 65 00
Rosewood	@ 6		40 00 @ 45 00	60 00 @ 75 00
Spruce floors clear, (kiln-dried)		32 00 @ 35 00	per M. 600 00	
Walnut, black	125 00 @ 150 00	85 00 @ 120 00		50 00 @ 170 00
White wood	45 00 @ 50 00	35 00 @ 45 00	40 00 @ 75 00	25 00 @ 40 00
Yellow pine	@ 45 00	40 00 @ 42 00	31 00 @ 34 00	@ 45 00

"Columbia" Steel Lath



"Columbia" Lath is made from the best quality of steel, in sheets $27\frac{1}{4} \times 48$ inches and each sheet covers exactly one square yard of surface. The corrugations shown in cut are $3\frac{1}{4}$ inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.



LUDLOW SAYLOR WIRE CO.

No. 114 & 116 So. Fourth St.

ST. LOUIS, MO.

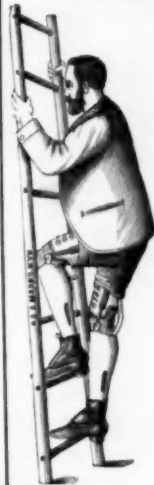


Elevator Enclosures and Cabs,
Metal Work in Brass,
Wire and Wrought-Iron,
Office and Bank Railings,
Wire and Iron Fences, etc.

MARKE'S ARTIFICIAL LIMBS.

WITH RUBBER HANDS AND FEET.

The most comfortable, durable and natural.



Although a man may lose both of his legs he is not necessarily helpless. By having artificial legs applied, with rubber feet attached, he can be restored to his usefulness.

The engraving is from an instantaneous photograph of a man ascending a ladder; he has two artificial legs substituting his natural ones, which were crushed by a railroad accident and amputated. With his rubber feet he can ascend or descend a ladder, balance himself on the rungs, and have his hands at liberty. He can work at a bench and earn a good days wages. He can walk and mingle with persons without betraying his loss; in fact, he is restored to his former self for all practical purposes.

With the old method of complicated ankle-joints these results could not be so thoroughly attained.

Fifteen thousand in use, scattered in all parts of the world. Many of these have been supplied without presenting themselves to the maker, simply by sending measurements on a formula which any one can easily fill out.

RECEIVED THE HIGHEST AWARD AT WORLD'S COLUMBIAN EXPOSITION. Indorsed and purchased by the U.S. Government. A treatise of 430 pages and formula for measuring SENT FREE.

A. A. MARKS,
701 Broadway, NEW YORK CITY.
[Established 41 Years.]

McCULLY GLASS CO.

Manufacturers of

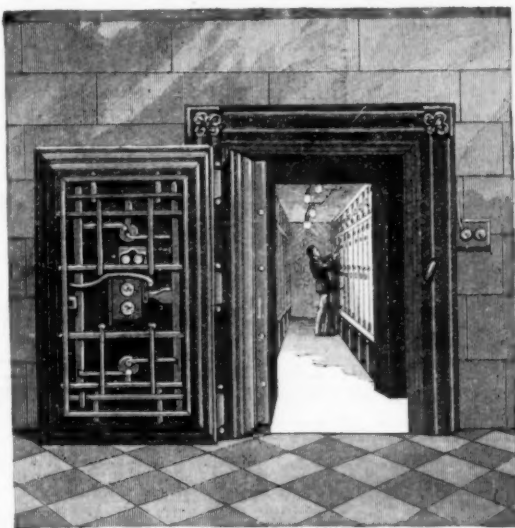
Stained & Beveled Glass,

MEMORIAL WINDOWS.

Special Designs Furnished upon Application.

346 and 348 Wabash Avenue,
CHICAGO, ILL.

Avoid liability to Accident, Injury and Damages by having Level Passage in Vault Vestibule



SPECIAL REFERENCE IS MADE TO

COLEMAN SELLERS, E. D., M. Inst. C. E., Consulting Engineer; WILSON BROS. & Co., Engineers and Architects; WM. SELLERS & Co., Engineers; J. M. MOSSMAN, Vault Engineer and Expert; R. M. PATTERSON, C. E.; BLAKE BANK LOCK INSPECTION CO.; W. H. BROWN, Chief Engineer Penn. R. R. Co.; HENRY R. TOWNE, M. E. and Pres't Yale & Towne Lock Co.; D. K. MILLER, M. E. and Pres't Automatic Tumbler Lock Co.; FAIRMAN ROGERS, C. E.; F. S. HOLMES, M. E.; G. W. & W. D. HEWITT, Architects, Philadelphia Bourse; J. C. BROOKS, M. E. and President Southwark Machine Co.; M. N. FORNEY, M. E. and Publisher of the Railroad and Engineering Journal; JOHN T. MORRIS, M. E.; W. C. GATZMER, C. and M. E. and Marine Architect; M. R. MUCKLE, JR. & Co., M. Engineers; JNO. BIRKINBINE, M. E.; J. H. LINVILLE, C. E.; ALEX. P. GEST, C. E.; JACOB NAYLOR, M. E.; JOHN V. RICE, JR., M. E.; RICHARD M. HUNT, Architect, New York; J. H. WINDRIM, Architect and Director of Public Works, Philadelphia; CABOT, EVERETT & MEAD, Boston; BALDWIN & PENNINGTON, Architects, Baltimore; JAS. G. HILL, Architect, Washington; W. KAUFFMAN, Architect, Pittsburgh; THE FIDELITY INSURANCE, TRUST AND SAFE DEPOSIT CO.; THE PROVIDENT LIFE & TRUST CO.; THE PHILADELPHIA & READING TERMINAL CO.; THE PENNSYLVANIA R. R. Co.; THE GIRARD LIFE AND TRUST CO.; THE PHILADELPHIA TRUST AND SAFE DEPOSIT CO.; THE GUARANTEE TRUST AND SAFE DEPOSIT CO.; DREXEL & Co.; THE PENNSYLVANIA CO. FOR INSURANCE ON LIVES AND GRANTING ANNUITIES, Philadelphia; THE MERCANTILE SAFE DEPOSIT CO.; CENTRAL R. R. Co. of N. J.; LINCOLN SAFE DEPOSIT CO., New York; FRANKLIN SAFE DEPOSIT CO., Brooklyn; RHODE ISLAND SAFE DEPOSIT CO., Providence, R. I.; THE FIDELITY AND DEPOSIT CO.; THE DROVERS AND MECHANICS NATIONAL BANK; THE MERCANTILE TRUST AND DEPOSIT CO., Baltimore; INTERNATIONAL TRUST CO.; SECURITY SAFE DEPOSIT CO.; UNION SAFE DEPOSIT VAULTS; BOSTON SAFE DEPOSIT AND TRUST CO., Boston; LEE NATIONAL BANK; MERCHANTS NATIONAL BANK, New Bedford, Mass.; HADDONFIELD NATIONAL BANK, N. J.; AMERICAN SECURITY AND TRUST CO., Washington, D. C.; and many others.

LEVEL ENTRANCES

into and out of Burglar, Fireproof and Cold-storage Vaults, with movable or fixed sills and movable floors, to prevent stumbling, without impairing security. Recommended by leading Architects, Civil and Mechanical Engineers of the highest repute, Engineers and Designers of Vaults, leading Vault Builders, the United States Commission on Safe and Vault Construction, the Director of the Mint, the Treasurer and Assistant Treasurer of the United States, the present Supervising and the ex-Supervising Architects of the Treasury Department, the Franklin Institute of Science of Philadelphia (which awarded the John Scott Legacy Premium and Medal), and Financial Institutions of New York, Philadelphia, Brooklyn, Boston, Providence, Baltimore, Washington, Pittsburgh, Wilkes-Barre, Cincinnati, Chicago, Camden, N. J., Lee, Worcester and New Bedford Mass., London, Eng., and other places, representing capital and surplus of over \$1,000,000,000.

ROYALTY for each Vestibule for Burglar-proof Vault, \$200; for Cold Storage or Fireproof Vaults, \$25.

Architects, Engineers and Financial Companies are requested to specify CLARK'S LEVEL PASSAGES in all Vault Vestibules, which will then cost no more than the old style raised sills. The right to make or use these devices can be obtained only by License from

G. S. CLARK, 325 Chestnut St., Philadelphia, Pa.

The only patents that allow Level Passages in Vault Vestibules having Fixed or Movable Sills

ALL OTHER DEVICES FOR THIS PURPOSE ARE INFRINGEMENTS.

Detailed drawings furnished without charge, on application, to prevent mistakes in building

Comfort and convenience promoted without interfering in the least with the security

STAR, STETTIN, PORTLAND CEMENT

is of high tensile strength, great fineness and uniformity, and permits a larger addition of sand and stone than cements of average good quality.

The uniform light color and its great resistance to wear make it very desirable for sidewalk and artificial stone construction, and taking a very high polish it is specially adapted for the manufacture of Colored Cement Tiles, the laying of marble mosaic and tiling.

The excellent qualities of the Star brand have made the name of Stettin, where the works are located, famous in connection with Portland Cement. This good reputation should, however, not be credited to other brands shipped at or named "Stettin," but each should be judged on its own merits.

Pamphlet with full description and instructions for testing and the employment of Portland Cement will be mailed free on application.

E. THIELE, 78 William St., New York.
SOLE AGENT FOR THE UNITED STATES.

Extract from a letter written by Walter Katte
Chief Engineer, dated October 23, 1885.

"I take great pleasure in stating that my experience results from the use of probably 100,000 barrels of it in the brick and stone masonry works of the New York Elevated, New York, West Shore & Buffalo, and New York, Ontario & Western Railways during the past eight years, and from which I have formed a very high opinion as to the excellency of its quality—the leading characteristic of which I have found to be its reliable uniformity, a quality usually found to be sadly lacking in the general run of the ordinary cements of the market; a quality which I regard as the "sine qua non" that every cement must possess before it can be entitled to be classed as 'good.'"

"This pre-eminent qualification in your cement I find to be due almost entirely to the care exercised in its manufacture; first in the selecting, sorting and grading of the natural rock, and, second, in the burning, grinding and mixing of the products."

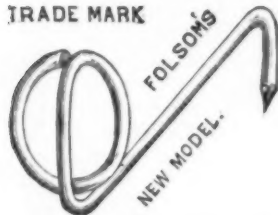
F. O. NORTON CEMENT CO.,

92 Broadway,

NEW YORK.

FOLSOM'S PATENT SNOW GUARDS

TRADE MARK



For Old
and
New Roofs.

Correspondence
solicited.

FOLSOM SNOW GUARD COMPANY,

33 Lincoln St. - - - BOSTON.



SECTIONAL PANEL STEEL CEILINGS.



ELEGANCE

The Superior Merits of our Steel Ceilings and Side Wall Plates are

DUST PROOF JOINTS

Mouldings varying in depth from 1-16 inch to 2 1-4 inches.

VARIETY INDEFINITE.

Sagendorph's Patent Sectional Steel Products Excel and Exceed all others combined. Ceilings and Side Walls Perfection Intact.

SOLE MANUFACTURERS,

THE PENN IRON ROOFING AND CORRUGATING CO (LIMITED),

PHILADELPHIA, PA.

GOOD MORNING, ARCHITECTS!

PARTICULARS ABOUT CHURCH LIGHTING READY TO SERVE YOU.

WRITE THIS ON A POSTAL.

I. P. FRINK,
551 Pearl St., New York City.

It's our Business to furnish architects with labor-saving lighting information.

DEAR SIR:—Kindly send me your literature and information regarding the lighting of churches and public buildings.

Name

Address

We're the largest church lighters in the world.



GUARANTEED BUILDING SPECIALTIES.

WHICH INSURE TO ARCHITECT AND CLIENT SATISFACTORY AND DURABLE RESULTS.

Cabot's Creosote Shingle Stains,

Soft, warm and rich in tint; durable, artistic and preservative in effect. New shades of green, gray and neutral brown. Special shades to match anything submitted, in paint sample or water-color.

Cabot's Sheathing "Quilt,"

Temperature and sound proof; unflammable and indestructible by decay or moths. One thickness equal to six of rosin-sized paper, and more than equal to three thicknesses of the best wool felt. More effective than back plaster, and 50 per cent. cheaper. Far superior to mineral wool, and much lower cost. Economical in first cost and easy to apply. Suitable for dwellings, cold storage, refrigerators, breweries, and all other places where even temperature is desired.

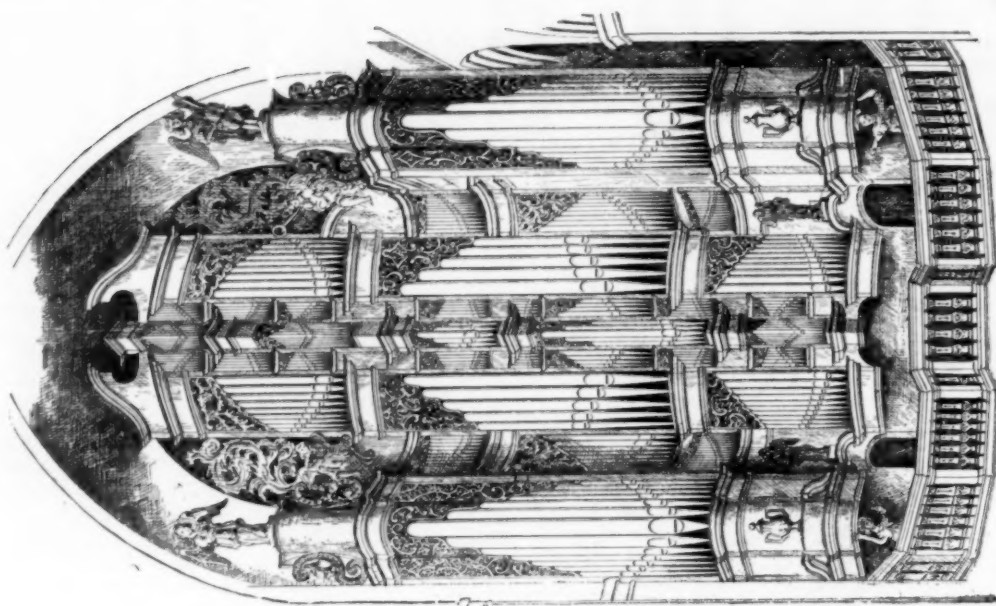
Cabot's Brick Preservative,

A waterproofing for brickwork, three times as effective as linseed oil. Much cheaper to use than linseed oil, and far more permanent. It is practically perdurable. Made colorless, for use on face bricks, or in red, to give an even effect to yellow and off-color bricks.

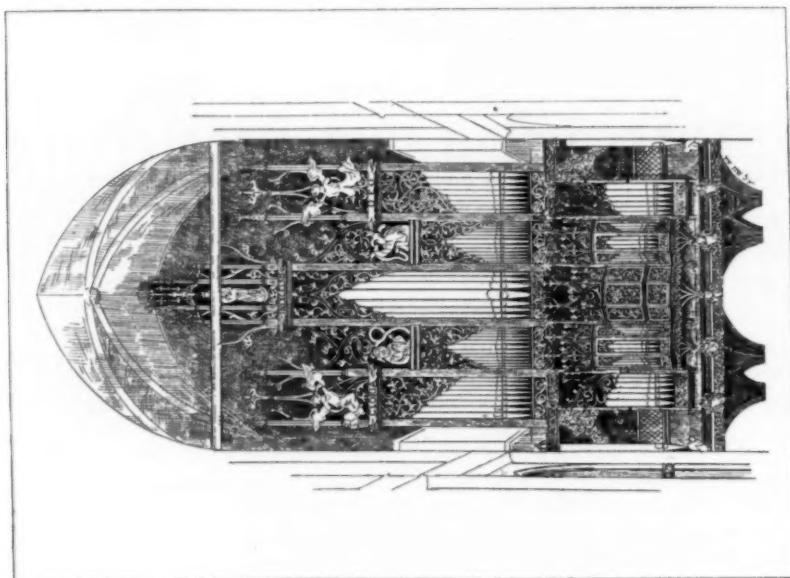
Samples of all these materials, with circulars, sketches and color studies, sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

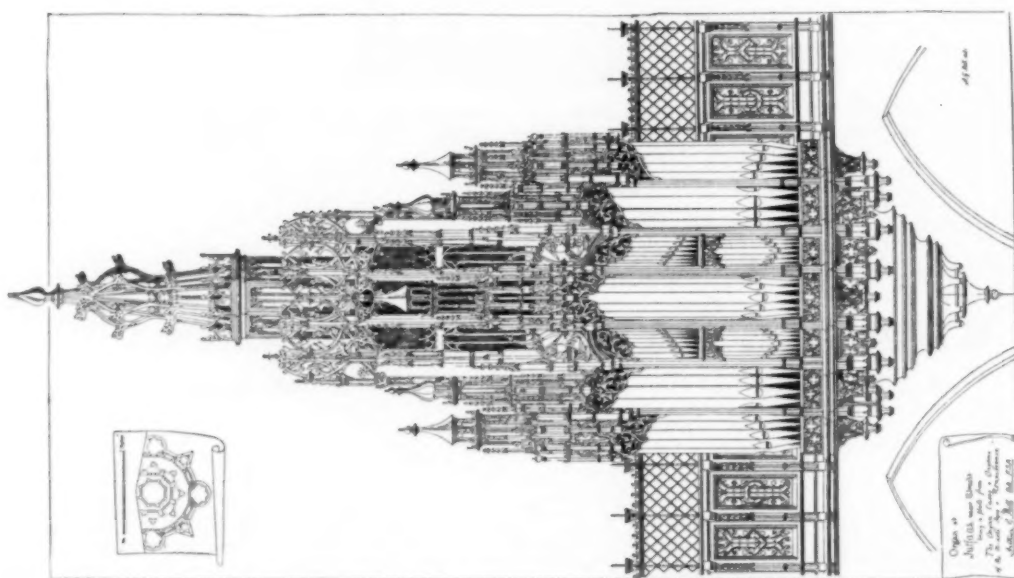
Agents at all Central Points. 70 Kilby St., BOSTON, MASS.



St. Nicolaas, Stralsund, Germany.



Marien Kirche, Lubeck, Germany.



Juttaas, near Utrecht, Holland.

CHURCH ORGANS.

PASSENGER
AND
FREIGHT
ELEVATORS

Morse, Williams & Co.,
Electric and Hydraulic High Speed
Passenger Elevators.
Steam, Belt and Hand Power Freight Elevators.
1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.
19 Pearl St., Boston. 82 Church St., New Haven.
714 Omaha Building, Chicago. 1116 E. St. N. W., Washington, D. C.

Decorative
Glass and
Sand Blast
Work.

THE MATTHEWS DECORATIVE GLASS CO.
MANUFACTURERS OF
ORNAMENTAL GLASS in Sheets or from Special Design
By the SAND-BLAST and other Patented processes.
CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,
Gold and Silver Embossed, and Transparent Glass Signs. Marbleized Glass
for Ceilings. Estimates promptly furnished on application.
328-330 E. 26th Street, New York City.

JOHN WILLIAMS, 544 to 556 West 27th Street, New York.
WROUGHT IRON AND BRASS WORK TO SPECIAL DESIGNS ONLY.
REFERENCES: { Tiffany & Co., N. Y.; Cottier & Co., N. Y.; L. Marcotte & Co., N. Y.; McKim, Mead &
White, N. Y.; Babb, Cook & Willard, N. Y.; Bruce Price, N. Y.; R. M. Hunt, N. Y.; Bailey,
Banks & Biddle, Phila.; Frank Hill Smith, Boston.; A. H. Davenport, Boston.



MERCHANT & CO., INCORPORATED, Sole Manufacturers.

THE BISCHOFF SHEET STEEL BATH-TUB.
ENAMELLED.

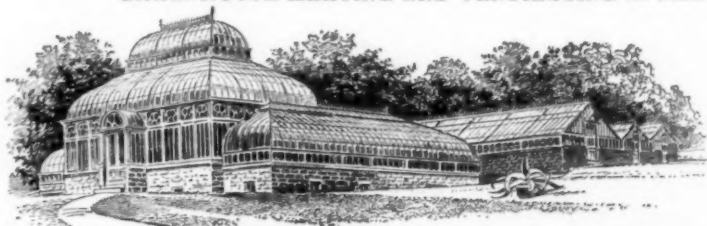
THE CHEAPEST AND
BEST SANITARY BATH
ON THE MARKET.



SEND FOR OUR
ILLUSTRATED CATALOGUE
AND PRICES.

FRED. F. BISCHOFF & CO., 24-26 West Lake St., CHICAGO.

HITCHINGS & CO., Established 50 years.
HORTICULTURAL ARCHITECTS AND BUILDERS
and largest Manufacturers of
GREENHOUSE HEATING AND VENTILATING APPARATUS.



Conservatories, Greenhouses, Palm Houses, etc., erected complete with our patent Iron Frame Construction. Plans and Estimates of cost and illustrated catalogues sent on application.

233 MERCER STREET, N. Y.



**NATIONAL
Fine Art Foundry,**
218 East 26th Street, New York.
Artists' Models cast in Standard Bronze
Architects' Designs Executed.
Artistic and Enduring Monuments
in Granite and Bronze.
No Catalogues.
MAURICE J. POWER.

**GRAVES
ELEVATORS**
SAFETY, SPEED AND
ECONOMY COMBINED
NEW YORK
92 & 94 LIBERTY ST.
BOSTON.
53 STATE ST.
DETROIT
HODGES BUILDING.
ATLANTA, GA.
INMAN BUILDING.
**GRAVES
ELEVATOR
CO.**
ROCHESTER, N.Y.
SEND FOR CATALOGUE.

**James A. Miller
& Bro.**

Slate
Tin
Tile and Iron

Roofers . . .

Galvanized Iron and Copper

Cornices, Bays
Skylights, etc.



Special Attention . . .
to Large First-class Work
Fully Guaranteed.

Our facilities, resources and experience are
such that we feel able to compete for
large work in our line, almost any-
where in the United States, and will
be particularly pleased to do so
now when there is so little
work going on in
this city.

129-131 South Clinton Street,
Chicago.

**THE GREAT
CHURCH
LIGHT
REFLECTORS** FOR
OIL, GAS
ELECTRIC LIGHT
J. P. FRANK
331 PEARL ST. N.Y.

SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.

Slate, Copper, Tin and Gravel Roofing.

Nos. 20 and 22 EAST STREET, BOSTON.

Order Box at Master Builders Association,
104 Devonshire Street.

Special attention given to Repairs
of all kinds.

Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs, acknowledged to be the strongest method in use, and has been applied to many of the best constructed and largest buildings in this country.

Contracts made for Work wherever desired.

ASPHALT ROOFING AND PAVING MATERIALS.

WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.

Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO.

81 & 83 Fulton Street, NEW YORK, U.S.A.



THE JENKINS AUTOMATIC AIR VALVE has proved to be all we claimed for it, i. e., a Positive and Reliable Air Valve. The expandible plug is a special compound, and MANUFACTURED EXPRESSLY for use in the JENKINS AUTOMATIC AIR VALVE. It does not deteriorate or lose its flexibility under the action of heat or steam. With the Jenkins Automatic Air Valve, you should connect with a drip pipe, thus insuring a positive circulation. We guarantee them to be as represented. Our trade-mark is on every Valve.

JENKINS BROS., New York, Boston, Chicago, Philadelphia.



The Cheapest of All Good Systems of Heating.

THE SUMMER HOME

Used not later than Thanksgiving—can be thoroughly heated and ventilated with a single JACKSON VENTILATING GRATE.

Send for Catalogue No. 8.

EDWIN R. JACKSON & BRO., 50 Beekman St., N.Y.



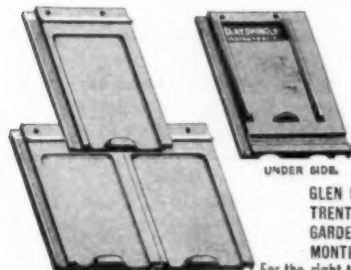
STAMPED STEEL CEILINGS

MANY DESIGNS
H. S. NORTHROP
Manufacturers
30 ROSE ST
NEW YORK



YALE LOCKS

FIRE-CLAY ROOFING-TILE.



Hard burned, of the best clays. Color, bright terra-cotta red. Weight seven pounds per square foot, lighter than slate.

Fireproof, Waterproof, Frostproof, Everlasting.

No cement. No paint. A non-conductor. Cooler in summer. Roofs now on show for themselves. The most beautiful and cheapest tile roofs in the country. Orders promptly filled. For prices, etc., to save freight, address the nearest of the following factories:

GLEN URBIE CLAY CO., 12 St. Paul St., Baltimore, Md.
TRENTON TERRA-COTTA CO., Trenton, New Jersey.
GARDEN CITY TERRA-COTTA CO., No. 723, The Temple, Chicago, Ill.
MONTEZUMA FIRE-CLAY SHINGLE CO., Montezuma, Ind.

For the right to manufacture under patent in any State east of the Mississippi river not arranged for, address CLAY SHINGLE CO., Indianapolis, Ind.

BLACKCROSS PORTLAND CEMENT

IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,

IMPORTERS ROMAN, KEENE'S, VICAT CEMENTS, ENGLISH GLAZED BRICKS. 23 Liberty Street, NEW YORK.

ASPHALT FLOORS, ROOFS, SIDEWALKS AND CARRIAGE-WAYS

Of Public Buildings, Hospitals, Warehouses, Stables, Cellars, etc.

Laid with VAL de TRAVERS ROCK ASPHALT,

DURABLE, FIREPROOF AND IMPERVIOUS.

For estimates and list of works executed, apply to

THE NEUCHÂTEL ASPHALT CO., Limited,
265 BROADWAY. - - - NEW YORK.

Brown's Patent Seamless DRAWN COPPER HOUSE BOILERS.

Cannot collapse.

Will not leak.

Ordinary boiler tested to 200 lbs.

Extra heavy tested to 300 lbs.

Made of two seamless drawn copper shells.

Handsome, best and strongest in the market.

Send for circular giving instructions for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES,

Waterbury, Conn.

Western Depot: 71 West Washington St., Chicago. Branch Offices: 104 John St., New York; Room 320 Philadelphia Bank Building, Philadelphia; 99 Milk St., Boston; Room 208, Neave Building, Cincinnati.

Proprietors of the Brown & Bros. Tubing and Boiler Works, and the Brown & Bros. Brass and Copper Rolling Mills.

Makers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

THE DECORATIVE GLASS

In Abbey's Theatre, N. Y., and Keith's Opera House, Boston, are examples of Renaissance and Rococo designs, the movement, carried out entirely in our hard metal settings.

METALLIC SETTING CO.,
137 Weybosset St., PROVIDENCE, 5 Park Sq., BOSTON.

BLAKE BELL CO.

Successors to Wm. Blake & Co.

Bell Founders and Brass Finishers.

Castings in any metal except iron.

Monumental Tablets, Artistic Brass Work.

Allen and Brighton Sts., BOSTON.

THE METALLIC WINDOW SCREEN MFG. CO.,

Successors to F. O. Snow & Co.,

Patent Metallic Sliding Window Screens,

Wood Screens and Screen Doors. Window Shades, Awnings and Weather Strips.

SPECIALTY—FINE WORK.

465 Washington St., Boston, Mass.

Architects, Builders, and others will confer a favor on the Publishers by mentioning "The American Architect and Building News" when sending for circulars or corresponding with parties advertising in these columns.

J.W. TAYLOR'S PHOTOGRAPH SERIES.

151 MONROE ST. CHICAGO 1 OF AMERICAN ARCHITECTURE.

Removed to Owings Building.

Send two 5 cent stamps for Catalogue.

PARQUET FLOORS.

The National Wood Manufacturing Co.,

129 5th Avenue, New York.

WAINSCOTINGS AND CEILINGS.

Inlaid Wood Floors 5-16 and 7-8 inch thick.

Solid work, Tongued and Grooved in each piece.

Designs & Estimates on application. Established 1867.



POINTS ON VARNISH.NO. 261.—THE ARCHITECT'S
APOLOGY

is that the owner himself is a chief obstacle to any reform of the abuse he suffers. A few dollars extra on varnish is a knock-down argument. The building has already cost him more than he expected; he must save a little on finish. If he ever contracts for a second building, he wants it well-finished; for he has learned by experience that the best job of varnishing is cheapest in the end.

But only a few men build more than once: the owner is nearly always without experience and without knowledge of varnish; and he wants to save his few dollars. Repeated explanation and exhortation is required, with every contract, to convince the owner that nothing but fine varnish, made especially for the purpose, will serve him.

Well, what of it?

Every teacher must be continually repeating the rudiments of knowledge to new pupils. The architect's profession requires him to be a teacher. Knowledge will slowly spread; people will learn from one another: the standard of taste will gradually rise, and teaching will be easier.

MURPHY VARNISH CO.

FRANKLIN MURPHY, President.

Head Office: Newark, N. J.

Other Offices: Boston, Cleveland, St. Louis, Chicago.

Factories: Newark and Chicago.

To ARCHITECTS:

If you desire to recommend a firm as one thoroughly capable of supplying *complete* furnishings for a hotel, club-house or private residence, you can mention us *with confidence*.

We supply CARPETS, RUGS, UPHOLSTERY FABRICS, FURNITURE, ETC., ETC.

Our *goods* are right; our *prices* are right.

We make a specialty of *private and exclusive patterns* which cannot be duplicated elsewhere.

John H. Pray, Sons & Co.,
658 Washington Street,
Opposite Boylston Street,
BOSTON.

F. W. DEVOE & CO.

(Established 1832.)

Fulton St., cor. William, New York.
No. 176 Randolph St., Chicago.

Pure Ready-mixed Paints.

We desire to call attention of consumers to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fireproof." We use no secret or patent method in manufacturing them by which benzine and water are made to serve the purpose of pure linseed oil.

Sample cards, containing fifty desirable shades sent on application.

FINE VARNISHES.

Hard Oil-Finish & Wood-Stains.

Illustrated Catalogue of Engineers' and Architects' Supplies, 250 pages, 700 Illustrations, on request.

White-Lead Colors in Oil and Japan.

H. W. JOHNS' SHINGLE STAINS

Prepared ready for use from the Purest Pigments and best Wood Preservative known. We will send upon request a full set of samples on wood, showing Silver Grays, Moss Greens and many handsome weather stained effects. These are permanent, durable stains.

H. W. JOHNS M'FG CO., 87 MAIDEN LANE, NEW YORK.
NEW YORK, JERSEY CITY, CHICAGO, PHILADELPHIA, BOSTON.

Roebling^{STANDARD} Wire Lathing

FIREPROOF—DURABLE—ECONOMICAL

Pays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three public tests—detailed accounts of which will be mailed to any address upon request.

**THE NEW JERSEY WIRE CLOTH COMPANY,
TRENTON, N. J.**

Awarded the Grand Prize at the late Paris Exposition.

SEND FOR THIS BOOK
FREE ON APPLICATION
THE BABCOCK & WILCOX CO. WATER TUBE
30 CORTLANDT ST. N.Y.
BRANCH OFFICES:
BOSTON, MASS. 8 OLIVER ST.
PHILADELPHIA, PA. 32 N. 3RD ST.
PITTSBURGH, PA. 408 LEWIS BLOCK
CLEVELAND, O. 412 PERRY-PAYNE BLDG.
CHICAGO, ILL. 45 S. JEFFERSON ST.
MINNEAPOLIS, MINN. 604 CORN EX.
NEW ORLEANS, LA. 57 CARondelet ST.
HAVANA, CUBA. 116² CALLE DEL MAR.
MANUFACTORIES IN UNITED STATES, SCOTLAND, FRANCE, GERMANY & AUSTRIA.

South Juniper St., No. 1018, bay-window and interior

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING, DREXEL BUILDING, MONADOCK BUILDING, DASHWOOD HOUSE,
NEW YORK. PHILADELPHIA. CHICAGO. LONDON.



Announce to all who contemplate *building or renovating*
Hotels, Office Buildings or Residences, that they have
formed a department in their extensive works for

**Architectural Woodwork,
Fine Cabinet Work, and
Interior Finishing.**

Plans, designs, specifications and further particulars will be submitted on ap-
plication. Address **WORKS AT WILMINGTON, DEL.**

CHARLES I DEMANDING THE FIVE IMPEACHED MEMBERS.

From the painting by

JOHN SINGLETON COPLEY, R. A.,
in the Boston Public Library.

A few copies of the excellent heliotype made of this fine historical picture, 11 x 16
inches, printed on heavy plate paper, 22 x 28 inches, with key to the
portraits, are for sale.

PRICE . . . \$3.00 each.

Sent carefully wrapped and postpaid, on receipt of price.

WALTER ROWLANDS, - - 211 Tremont Street, BOSTON.

BUILDING INTELLIGENCE.

(Alterations and Additions Continued.)

alterations to four-sty seed store; con., Ralph &
Gregg, 1233 Olive St.; own., Henry F. Michell.
South Second St., No. 428, interior alterations to
three-sty brick building; bld., Joseph Pettit, 1811
South Twentieth St.

Tricola St., No. 1005, alteration of two-sty store
into a dwell.; con., E. P. Tyson, Logan Station.
North Twelfth St., No. 1223, alterations of two-
sty store to dwell.; own., John Van Winkle, s w
cor. Columbia Ave. and Eleventh St.

North Ninth St., No. 23, interior alterations and
new brick front to three-sty store; own., John L.
Kase, 1616 Arch St.

Cherry St., n s, e Eighteenth St., new brick front
and additional story on three-sty hospital building;
con., James Johnson, 1713 Sanson St.

Frankford Ave., No. 2559, two-sty brick addition
to warehouse; con., W. R. Brown, 2145 Dickinson
St.

Kensington Ave., No. 2432, new bulk and interior
alterations; bld., Henry M. Kister, 129 South Seventh
St.

North Front St., No. 2418, interior alterations and
new bulk; bld., Henry M. Kister, 129 South Seventh
St.

Quarry St., No. 234, alterations to front of brick
factory; con., J. F. McCloskey, 212 New St.

South Second St., Nos. 305-311, alterations and
repairs to Gould's Building; con., Matthew Schmidt,
639 North Sixth St.

South Eighth St., No. 771, underpinning and altera-
tions to store and dwell., also three-sty brick addi-
tion; con., Paolo Vellano, 805 Linard St.

South Eleventh St., No. 1177, new brick front and
addition to three-sty brick store and dwell.; con.,
Edward Cumberly, 811 Wharton St.

Market St., s w cor. Fifty-fifth St., one-sty brick
addition to hotel and restaurant; con., Sydie & Rex,
Fifty-fifth and Market Sts.

Fairmount Ave., s w cor. Twenty-fourth St., front
and interior alterations to 3 stone, brick, iron and
frame car-houses and one-sty stone, brick, iron
and frame addition; con., Charles McCaul, 10 North
Eleventh St.

Germantown Ave., near Carpenter St., front and
interior alterations to brick, stone, iron and frame
car-house; con., Charles McCaul, 10 North Eleventh
St.

Girard Ave., s s, e Twenty-seventh St., front and
interior alterations to brick, stone and frame car-
house; con., Charles McCaul, 10 North Eleventh St.

Ruscombe and Sixth Sts., at Lindley Station, one-
sty stone and brick addition to factory; con., Henry
Koch, 408 Fairmount Ave.

Coulter St., s s, e Germantown Ave., two-sty
brick addition to storage-house; con., George Wood,
4546 Rubicam Ave., Gt'n., Pa.; own., Nathan Marple.

Mintzer St., n w cor. Fairmount Ave., additions
and alterations to two and three-sty brick brewery;
con., E. H. Shaw & Co., 818 North Sixth St.

New St., No. 208, front alteration to four-sty
factory; con., James F. McCloskey, 212 New St.

South Fifteenth St., Nos. 24-28, alterations and
two-sty addition to office and store-building; own.,
Erie and Western Transportation Co.; arch., M.
Fielding, 110 South Fourth St.; bld., John R.
Wiggins.

South Penn Sq., s w cor. Broad St., interior and
exterior alterations to five-sty office and store-
building; own., Borrel & Watt, 2020 Chestnut St.

Walnut St., No. 1117, new store front and one-sty
addition; con., George F. Payne & Co., 401 South
Juniper St.

North Twelfth St., No. 1853, interior alterations,
bay-window and shed; con., Thomas M. Seeds, Jr.,
1025 Race St.

Market St., n w cor. 12th St., front and interior
alterations to building, 50' x 100'; con., Charles Clif-
ford & Son, 23 Hudson St.

Ridge Ave., s w cor. 31st St., three-sty addition,
con., G. W. Hawes, 2021 Brown St.

BUILDING INTELLIGENCE.

(Alterations and Additions Continued.)

Germantown Ave., Nos. 4011-4015, interior and ex-
terior alterations to 2 two-sty buildings; con., Ben-
jamin Walker, 3945 Germantown Ave.
High St., s w cor. Morton St., interior alterations
and two-sty stone and brick back building; con.,
James D. Arthur, 223 Levant St.

Belfield St., cor. Penn St., additional story and
mansard roof on two-sty drying-house; con., Fred-
erick May, 43 Wlster St.

Cumberland St., Nos. 1434-6, interior and exterior
alterations, making 2 two-sty brick buildings into
one for dwell. and restaurant; own., Frank Rosen-
berger, 2636 Frankford Ave.

Market St., No. 1109, interior and exterior altera-
tions to six-sty brick building for newspaper; con.,
B. Ketcham & Son, 1029 Brown St.

Sixth St., w s, e Jefferson St., repairs to two-sty
brick and iron factory; con., Charles P. Nesbitt, 425
Locust St.

Montgomery Ave., n e cor. 13th St., interior and
exterior alterations and two-sty brick back build-
ing; con., Henry N. Wartman's Sons, Germantown
Ave.

North Seventh St., No. 984, interior alterations and
two-sty brick back building; con., Thomas W.
Draper, 328 North 5th St.

Orion St., Nos. 739-728, interior alterations to 4
four-sty brick dwellings; con., W. R. Oram, Haver-
ford, Pa.

Rufner St., n w cor. Pulaski Ave., additional story
on two-sty brick planing-mill; contractor, Harry
Brocklehurst, 514 Norris St.

St. Vernon St., s w cor. 17th St., new bulk and
front alteration to three-sty dwell.; con., James L.
Evans, 2251 North 4th St.

Susquehanna Ave., No. 1932, additional brick story
on two-sty dwell., and new one-sty back building;
con., William F. Hand, 1932 Susquehanna Ave.

South Broad St., No. 312, alterations and additions;
arch., Louis C. Hickman, Brown Bros.' Building,
Chestnut and 4th Sts.

APARTMENT-HOUSES.

Boston, Mass.—Dewey St., near Howard Ave., Ward
20, three-sty frame apart., pitch roof, 24' x 62'; own.,
Woffenback & Lilley; bld., Morrison & Rackley.

Brooklyn, N. Y.—Hall St., No. 97, four-sty brick
flat, gravel roof, 20' x 40'; \$5,000; own., Johanna R.
Schollita, 97 Hall St.; arch., F. L. Hine, 301 Gates
Ave.; bld., Martin Walsh, 334 Lexington Ave.

Chicago, Ill.—J. Iverson, three-sty flats, 88 Werden
St.; \$4,000.
Wilhelm Bergeman, three-sty flats, 811 Rockwell
St.; \$5,000.

R. K. Barnes, two-sty flats, 224 Heine St.; \$3,000.
Frank Kvasnechey, Jr., three-sty flats, 149 New-
berry Ave.; \$3,000.

Charles Koler, two-sty flats, 12 Macedonia St.;
\$3,000.
Sarah Donovan, two-sty flats, 412 Albany Ave.;
\$7,000.

John Efting, three-sty flats, 676 Ashland Ave.;
\$8,000.
Andy Graham, three-sty flats, 874 Congress St.;
\$6,000.

Mrs. Rilla Williams, three-sty flats, 1631 Monroe
St.; \$10,000.
Gus. Friedlander, three-sty flats, 4820 Evans Ave.;
\$5,000.

August Hausske, three-sty flats, 1845-1847 Frede-
rick St.; \$10,000.
Frank T. Kinnaro, two-sty flats, 874 Walnut St.;
\$3,000.

Edward Hickey, two-sty flats, 5406 Dearborn St.;
\$5,500.
Frank Gustafson, two-sty flats, 6021-6031 Drexel
Ave.; \$10,000.

E. Ender, three-sty flats, 453 North Hoyne Ave.;
\$7,000.
Mrs. C. Murphy, three-sty flats, 62 Gurley St.;
\$3,500.

INSTRUCTION BY MAIL

In Architectural Drawing,
Plumbing, Heating and Ventilation,
Bridge Engineering,
Railroad Engineering,
Surveying and Mapping,
Electrical Engineering,
Mechanics,
Mechanical Drawing,
Mining,
English Branches, and

ARCHITECTURE.

Diplomas awarded. To begin, students need only
know how to read and write. Send for FREE Circular
of Information stating the subject you think of study-
ing to

The Correspondence School of Mechanics
and Industrial Sciences,
SCRANTON, PA.

4000 STUDENTS.

PROPOSALS.

ORNAMENTAL IRON WORK.
[At Boston, Mass.]
OFFICE OF CHARLES BRIGHAM, ARCHITECT,
BEACON HILL PL., BOSTON, MASS.
Sealed proposals will be received at this office until
12 M., Monday, July 16, 1894, for the bronze and
wrought-iron railings for the Massachusetts State-
House Extension, plans and specifications of which
can be seen at the office on and after Monday, July 9,
1894. The Commissioners reserve the right to reject
any and all bids.

JOHN D. LONG,
C. EVERETT CLARK,
WM. ENDICOTT, JR.,
968 State-House Construction Commissioners.

BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

John Cella, three-sty flats, 701 Larrabee St.;
\$6,000.
J. W. Ulin, two-sty flats, 606 Milwaukee Ave.;
\$5,000.

J. Burroughs, three-sty flats, 759 Washington St.;
\$5,000.
R. A. Griefenhagen, four-sty flats, 87-89 Evanston
Ave.; \$15,000.

F. M. Barber, three-sty flats, 566 Boulevard Pl.;
\$8,500.
Mrs. M. Duffy, three-sty flats, 27 Sheridan Ave.;
\$10,000.

I. M. Fallowell, two-sty flats, 12009 Wallace St.;
\$3,000.
C. Jensen, 2 two-sty flats, 1284-1286 Bonney Ave.;
\$3,500.

Fred Buching, three-sty flats, 994 South Western
Ave.; \$7,000.
M. Watkins, 2 two-sty flats, 1324-1328 Fifth St.;
\$3,000.

H. Henger, three-sty flats, 35 Reynolds Ave.;
\$3,000.
Mrs. A. Doyle, three-sty flats, 4730 Prairie Ave.;
\$5,000.

Thomas McCall, three-sty flats, 5344 Madison St.;
\$4,500.
D. Borugal, two-sty flats, 1429 Dakin St.; \$3,000.

West & Matson, two-sty flats, 6547 Wharton Ave.;
\$4,000.
Frank Vejeh, two-sty flats, 983 Washtenaw Ave.;
\$3,900.

F. Crandall, two-sty flats, 285 St. Louis Ave.;
\$3,000.
L. Cutler, four-sty flats, 604-606 Forty-sixth St.;
\$22,000.

E. N. Smith, 2 three-sty flats, 7929-7931 Edwards
St.; \$3,600.
Mrs. Vickers, two-sty flats, 205 Sunnyside Ave.;
\$3,500.

F. Kresman, two-sty flats, 182 Jay St.; \$4,000.
Gus. Johnson, three-sty flats, 5227 Indiana Ave.;
\$3,500.

John A. Almquist, three-sty flats, 5229 Indiana
Ave.; \$5,100.
John Murphy, three-sty flats, 508 Thirty-second
St.; \$3,800.

M. A. O'Donnell, three sty flats, 826 Congress St.;
\$5,000.
Charles Wittenberg, two-sty flats, 172 Evergreen
Ave.; \$5,000.

W. H. Stall, two-sty flats, 2027 Adams St.; \$3,000.
L. Bocher, three-sty flats, 1276 Sheffield Ave.;
\$7,000.

L. W. Mason, three-sty flats, 922 Garfield Ave.;
\$7,000.
P. Quinn, two-sty flats, 6433 Evans Ave.; \$5,000.

F. W. Munayo, three-sty flats, 1294 Congress St.;
\$7,000.
L. A. Barnes, 2 two-sty flats, 6452-6458 Union Ave.;
\$10,000.

F. Broekaska, two-sty flats, 770 Turner Ave.;
\$3,500.
St. Johnson, three-sty flats, 196 Richmond Ave.;
\$5,300.

John Bengton, three-sty flats, 792 Fairfield Ave.;
\$4,000.
Jacob Strohm, three-sty flats, 1509 Oakdale Ave.;
\$3,000.

H. Mayer, three-sty flats, 160 Osgood St.;
\$4,000.
T. A. McClain, three-sty flats, 5838 Ingleside
Ave.; \$5,000.

New York, N. Y.—Lenox Ave., w s, 25' n 117th St.,
3 five-sty brick flats, flat tin roofs, 25' x 65', 59';
\$69,000; own., Frederick Aldhouse, 513 Lenox Ave.;
arch., John C. Burne, 101 West 43d St.

Downing St., No. 31, five-sty brick flat, flat tin
roof, 25' x 57', 88'; \$16,000; own., Jas. P. Powers,
443 West 51st St.; arch., Geo. F. Pelham, 503 Fifth
Ave.

Iron-Work.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,

BEAMS, CHANNELS, ANGLES, ZEEs, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.Round, Square and Flat Bars
of all sizes.

SPECIALTIES:

PHENIX COLUMNS AND UPSET EYE-BARS

Of all sizes, in Iron or Steel.

ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.

AGENTS:

New York: EDWARD CORNING & Co., 29 Broadway
Chicago: A. C. STITES, 931 Rookery Building.

Boston: EDWARD CORNING & Co., 70 Kilby Street.

PASSAIC ROLLING MILL CO.,

PATERSON, N. J.

STEEL BEAMS

4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

NEW YORK OFFICE, - - 45 BROADWAY

J. S. THORN CO.

Architectural Sheet-Metal Works.

Metal Building Trimmings, Ventilating Skylights
Metallic Roofing Tiles, Building Specialties, Builders'
Light Iron Work of every description.

Nos. 1925 to 1929 Callowhill Street,

PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

Henry St., No. 199, five-sty brick flat, flat tin roof
25' x 76', 59'; \$18,000; own., Jacob Fischel, 16
Henry St.; arch., Max Muller, 21 Centre St.St. Louis, Mo.—Two-sty flat, e s Boyle St., bet.
Rine and Laclede Sts.; \$12,000; own. and con., L.
Bisantz.Two-sty flat, n s Laclede St., bet. Boyle and Sarah
Sts.; \$10,000; own., L. Bisantz; con., A. Aumann.Worcester, Mass.—Main St., four-sty brick apart.,
55' x 70'; own., Geo. W. Coombs; arch., Barker &
Nourse; not let.

CHURCHES.

Arlington, Md.—New M. E. Church South; \$14,000;
arch., Frank C. & Henry R. Davis, Baltimore; con.,
J. T. Marshall, Glyndon.Brooklyn, N. Y.—Fort Hamilton, n s cor. East 4th
St., one-sty frame church, 50' x 102' 17", single roof;
\$10,000; own., Jas. J. McAtter, Windsor Terrace;
arch., Thos. L. Houghton, 213 Montague St.Chicago, Ill.—St. Martin's Parish, brick church,
5828-5850 Princeton Ave.; \$100,000.Coatesville, Pa.—Trinity Protestant Episcopal
Church to be built of local stone, limestone, dressed
stone for trimmings, piers and arches; about \$30,000;
arch., George Nattress, 430 Walnut St., Philadel-
phia.New York, N. Y.—Eighty-seventh St., s s, Nos. 406-
412, one-sty brick church, peak slate roof, 32' x 110',
140' high to top of tower, 78' to roof; \$80,000; own.,
Corporation St. Joseph's Catholic Church, 412 East
87th St.; arch., Wm. Schickel & Co., 246 Fifth Ave.

FACTORIES.

Brooklyn, N. Y.—Franklin Ave., e s, 37' s Colyer
St., one-sty brick factory, 41' 50' x 70' and 60', gravel
roof; \$4,000; own., W. S. Doig, 21 Franklin Ave.;
arch. and bld., Libbey & Keene, 519 Flushing Ave.New York, N. Y.—Eleventh to Thirteenth Ave.,
Twenty-sixth to Twenty-seventh St., one-sty iron
workshop, peak felt roof, 192' x 510', 20'; \$35,000;
own., J. M. Cornell, 29 East 37th St.; arch., C. J.
Wolf, 26th St. and 11th Ave.Philadelphia, Pa.—Susquehanna Ave., s w cor.
Germantown Ave., three-sty brick and stone Union
candy factory, 60' x 60'; con., Arch St. Building Co.,
1330 Marshall St.

HOSPITALS.

Philadelphia, Pa.—Ontario St., cor. Broad St.,
four-sty brick, stone and iron Samaritan Hospital;
arch., James H. Houston in the office of Furness,
Evans & Co., Provident Life and Trust Building.

HOUSES.

Baltimore, Md.—Ten three-sty brick dwells., s s
Reservoir St., bet. Robert St. and Park Ave.; own.,
Nelson C. Showacre, 1606 West Mulberry St.Eleven two-sty brick dwells., n s Oxford Ave.,
bet. cor. Boone St.; own., W. M. Walstun, 517 Ais-
quith St.Fourteen two-sty brick dwells., s w s Rogers
Ave., bet. Law and Gay Sts.; 4 two-sty brick dwells.,
e s Law St., bet. East and Chestnut Sts.; two-sty
brick dwell., n s cor. Rogers Ave. and Law St.; 22
two-sty brick dwells., n s s Rogers Ave., bet. Lex-
ington and Law Sts.; own., H. M. Reinhart, 309 East
Twenty-sixth St.Two three-sty brick dwells., 2133-2135 Fairmount
Ave.; own., Wm. C. Dorsey, 1802 East Monument
St.Two two-sty brick dwells., e s Eutaw St., bet.
West and Stockholm Sts.; own., Thos. Barrett, 1205
South Eutaw St.Seven two-sty brick dwells., w s York Road, bet.
Huntingdon Ave. and 24th St.; own., Phillips &
Coburn.

Fifteen two-sty brick dwells., w s Forrest St., s

JACKSON ARCHITECTURAL IRON WORKS,

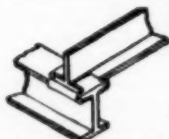
ESTABLISHED 1840.

IRON

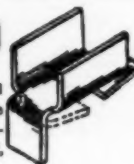
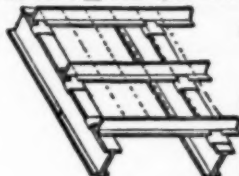
Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams,
Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings
and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze.
Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts.

Office, 315 East 28th St., New York.



H. A. Streeter's Patent Clip

ARCHITECTS, OWNERS, CONTRACTORS, and all
others interested in Iron or Steel construction will please
note that I have PATENTED A STEEL CLIP for connect-
ing Angle or Tee bars to I Beams, etc., which reduces the expense one-half,
and does away with the old method of Drilling and Bolting, which is a great sav-
ing of Time, besides allowing an easy method of adjusting Tee bars to any de-
sired width of Tiles. (This method is now adopted by our principal contractors).
Clips furnished ready to apply by sending the Sections and weight of Tee
Bars and I Beams, for which connections are wanted.

FOR PRICES AND FURTHER INFORMATION

APPLY TO STREETER

Globe Iron Works,

35-41 E. INDIANA STREET,

CHICAGO, - - - ILL.



ORNAMENTAL

IRON
WORK

PRISMATIC

LIGHT
WORKDAUCHY IRON WORKS
84-92 ILLINOIS STREET
* CHICAGO *

BUILDING INTELLIGENCE.

(Houses Continued.)

Low St.; own., Peter Bremer, 1512 North Wolfe St.

Ten three-sty brick buildings, s s Pratt St.; 12
two-sty brick buildings, e s Pulaski St.; 5 two-sty
brick dwells., n s McHenry St., and 7 two-sty brick
dwell., on Harrison St.; own., V. Hagerman.Three-sty brick store and dwell., n e cor. Barre
St. and Burgundy Alley; own., Jno. Aubel, 712
West Barre St.Three-sty brick dwell., n e cor. Columbia Ave.
and Tremont St.; own., J. H. Cavena, 752 Columbia
Ave.Two three-sty brick dwells., w s Madison Ave.,
near North Ave., and 3 three-sty brick dwells., beg.
s w cor. Madison Ave. and Whitelock St.; own., Dr.
N. L. Dashiell, 700 South Broadway.Two three-sty brick dwells., w s Eutaw Pl., n
Wilson St.; own., Amback & Burgunder, 17-19 Hop-
kins Pl.Four three-sty brick dwells., on Augusta Ave., bet.
McHenry and Hollins Sts.; own., A. S. Potter, Ir-
vington, Baltimore County, Md.Ten two-sty brick dwells., on Walbrook Ave.,
bet. Pulaski and Smallwood Sts.; own., Chas. A.
Lipp, 1635 North Caroline St.Four three-sty brick dwells., w s York Road, s
Huntingdon Ave.; own., Andrew B. Banghart, 1600
West Lexington St.Eleven two-sty brick dwells., e s Druid Hill Ave.,
bet. North Ave. and Whitelock St.; own., Jos. H.
Pentz, 630 West Saratoga St.Boston, Mass.—Humboldt Ave., near Bower St.,
Ward 21, 2 three-sty brick dwells., flat roofs, 20' x
40'; own. and bld., O. E. Furber.Sutherland Road, near Commonwealth Ave., Ward
25, brick dwell., hip roof, 32' 8" x 44'; own., C. E.
Maxwell; bld., J. J. Flynn.Lapman St., Nos. 54-58, Ward 16, 3 four-sty brick
dwell., flat roofs, 20' x 38'; own. and bld., A.
Bilasky.Grinnell St., Nos. 6-8, Ward 19, 2 three-sty brick
dwell., flat roofs, 18' x 38'; own. and bld., Martin
Beatty.Lambert Ave., near Guild St., Ward 21, 2 three-sty
frame dwells., pitch roofs, 22' 6" x 48'; own., Thos.
Boyle; bld., L. V. Berry.Lambert Ave., cor. Guild St., Ward 21, three-sty
frame dwell., pitch roof, 23' x 48'; own., E. Master-
son; bld., L. V. Berry.

Harold St., near Ruthven St., Ward 21, three-sty

BUILDING INTELLIGENCE.

(Houses Continued.)

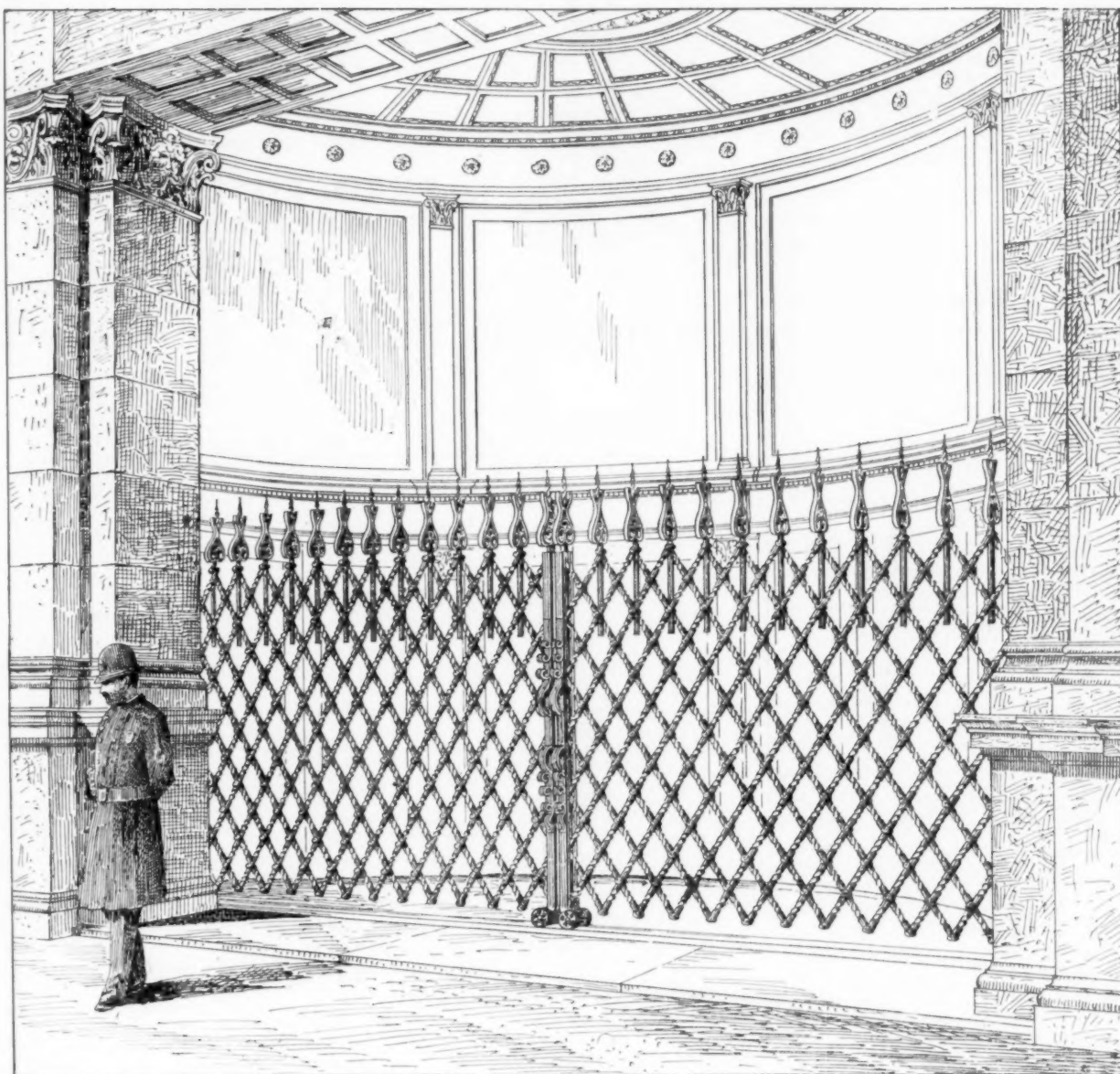
frame dwell., hip roof, 32' x 44'; own., E. G. Stevens.

Dorchester Ave., near D St., Ward 15, 2 three-sty
frame dwells., flat roofs, 21' x 35'; own., E. McBride;
bld., Howard Bros.Sachem St., near Calumet St., Ward 22, three-sty
frame dwell., pitch roof, 25' x 54'; own., J. McCarthy;
bld., Danl. Lane.Eldora St., near Hillside St., three-sty frame
dwell., pitch roof, 20' x 49'; own., J. E. Conrey; bld.,
F. Kuchner.Dorchester Ave., No. 1865, Ward 24, two-sty frame
dwell. and store, flat roof, 47' x 49'; own., W. H.
Partridge; bld., F. X. Julian.Dorchester Ave., No. 1196, Ward 24, three-sty
frame dwell., flat roof, 24' 6" x 44' 6"; own., Mrs. J.
Hagerty; bld., D. Campbell.Josephine St., near Ditson St., Ward 24, three-sty
frame dwell., flat roof, 25' x 46'; own., Thos. Crake;
bld., L. J. Ellis.Freemont St., near Hillside St., Ward 22, three-
sty frame dwell., pitch roof, 25' x 50'; own., Thomas
Fahey.Dorchester Ave., cor. Roach St., Ward 24, three-
sty frame dwell. and store, flat roof, 20' x 50'; own.,
L. B. Stuart; bld., W. H. Stuart.Paul Gore St., near Centre St., Ward 23, three-sty
dwell., pitch roof, 28' 6" x 44'; own. and bld., A. F.
Bower.Farrington St., near Orient Ave., Ward 1, three-
sty frame dwell., pitch roof, 21' 6" x 29'; own.,
Boston Land Co.; bld., P. M. Hayden.Cambridge St., near Windom St., Ward 25, 6 three-
sty frame dwells., flat roofs, 25' x 47'; own., E. T.
Larkin; bld., J. E. Poland.Aberdeen Park, Ward 25, three-sty frame dwell.,
gambrel roof, 32' x 45'; \$8,000; own., Wm. H. Potter;
bld., Wm. Kellar; arch., E. L. Clark.Harold St., Ward 21, 2 two-and-one-half-sty
frame dwells., 28' x 53' and 37' x 46'; own., S. M.
Shapleigh; bld.,—Thorn; arch., S. D. Kelley.Montrose St., cor. Kirk St., Ward 23, three-sty
frame dwell., pitch roof, 30' x 41'; own., F. O. Car-
penter; bld., S. H. Whitaker.Hillside St., near Calumet St., Ward 22, three-sty
frame dwell., pitch roof, 25' x 62'; own., J. C.
O'Neill; bld., M. McLaughlin.

Crawford St. and Harold St., Ward 21, three-sty

(Continued on page xvi.)

THE
WILLIAM R. PITT
COMPOSITE
IRON WORKS,
202 FIFTH AVENUE,
COR. TWENTY-FIFTH ST. NEW YORK.



PATENTED JANUARY 13, 1891.

STEPHEN D. HATCH,
ARCHITECT.

ENTRANCE TO THE ROOSEVELT BUILDING,
BROADWAY AND THIRTEENTH STREET,
NEW YORK.

MARK EIDLITZ & SON,
BUILDERS.

THE ABOVE IS ONE OF THE IMPROVED PITT PATENT FOLDING GATES MADE IN BRONZE METAL. THE GATE IS 8 FEET 6 INCHES HIGH AND TWENTY-TWO FEET WIDE.

AS A RULE, FOLDING GATES ARE NOT ARTISTIC IN DESIGN, BUT IT IS OUR CONSTANT AIM TO PRODUCE THEM IN ATTRACTIVE FORM, AND WE HAVE SOME EXCELLENT DESIGNS IN GATES WHICH FOLD SO AS TO OCCUPY THE LEAST POSSIBLE SPACE.

THESE GATES ARE SUITABLE FOR LARGE OFFICE BUILDINGS AND FINE STORE FRONTS. THEY TAKE UP LESS ROOM THAN THE MASSIVE SWINGING DOORS, AND WHEN MADE IN BRONZE METAL COST LESS THAN THE RIGID GATES.

ARCHITECTS SHOULD SPECIFY THE "PITT" PATENT GATES AND THEN SEE THAT THEY GET THE RIGHT ONES.

WE ARE KEEPING UP OUR REPUTATION FOR GOOD WORK IN ALL OUR LINES AND IF YOUR FOLDING GATES, GRILLES, RAILINGS AND LAMPS ARE MADE BY US YOU MAY BE ASSURED OF ARTISTIC DESIGN AND GOOD WORK.

(Houses Continued.)

frame dwell., pitch roof, 28' 6" x 44'; own., Mrs. Julia E. Shea; bld., J. Muldoon.

Forbes St., near Centre St., Ward 23, three-sty frame dwell., flat roof, 24' x 53'; own., L. A. Becker; bld., J. Prieming & Son.

Bay State Road, Ward 22, four-sty brick and stone dwell., flat roof, 23' x 60'; own. and bld., Chadwick & Stillings; arch., Saml. D. Kelley.

Bridgesburg, Pa.—*Almond St.*, w. s. s. Lefevre St., two-sty brick dwell.; con., Frederick Breininger, 4545 Salmon St.

Bristol, Conn.—*Bellevue Ave.*, frame dwell.; \$8,000; own., Willis Bacon; arch., Theo. B. Peck, Waterbury, Conn.

Prospect St., frame dwell.; \$5,000; own., J. B. Mitchell; arch., L. L. Stewart.

Granite house, 93' x 163'; own., Mrs. H. W. Atkins; bld., Adrian Tallion; arch., H. Neil Wilson, Pittsfield, Mass.

Brookline, Mass.—*Gorham St.*, 6 brick dwells., flat roofs, 60' x 90'; \$20,000; own., A. J. Ward; arch., Danl. H. Woodbury, Boston; not let.

Brooklyn, N. Y.—*Forty-ninth St.*, s. s. 350' e 2d Ave., 2 three-sty frame dwells., 20' x 40', tin roofs; \$2,500 each; own., A. Margreen, 245 Smith St.; arch., H. L. Spicer, 1106 Third Ave.

Eighteenth St., s. s. 75' e 7th Ave., three-sty frame dwell., 25' x 52', tin roof; \$4,500; own., F. G. Volkers, 525 Seventh Ave.; arch., W. H. Wirth, 358 Seventh St.

Hale Ave., e. s. 175' s Ridgewood Ave., 2 two-sty frame dwells., 20' x 32', tin roofs; \$3,600 each; own., F. Guinan, Hale Ave., near Ridgewood Ave.; arch. and bld., Chas. T. Haviland, 101 Sheffield Ave.

Thirty-first St., No. 259, two-sty and attic frame dwell., 22' 4" x 26', shingle roof; \$3,000; own., Rob't Lyndall, 31st St., Flatbush.

Hamburg Ave., w. s. 30' s Van Voorhis St., two-sty and basement frame dwell., 20' x 45', tin roof; \$3,000; own., Abby Morris, 601 Hamburg Ave.; bld., R. T. Lamport, 1558 Broadway.

Stillman Ave., e. s. 100' e Lorimer St., three-sty frame dwell., 23' x 60', tin roof; \$4,700; own., J. F. Weigand, 144 Wythe Ave.; arch., D. Acker & Son, 752 Broadway.

Elton St., w. s. 25' s Sutter Ave., 17 two-sty frame dwells., 18' 6" x 33', tin roofs; \$1,500 each; own., arch. and bld., Fred Eklermann, 259 Hendricks St.

Cumberland St., e. s. 173' n Myrtle Ave., four-sty brick dwell., 25' x 62', tin roof; \$8,000; own., Chas. Barden, on premises; arch., Carl F. Eisenach, 59 Court St.

Garfield Pl., s. s. 92' 10" w 8th Ave., 4 three-sty and basement brick dwells., 24' x 47', tin roofs; \$8,000 each; own., arch. and bld., John J. Magilligan, 56 Berkeley Pl.

Lorimer St., e. s. 27' n Richardson St., 6 three-sty frame dwells., 25' x 58', tin roofs; \$3,000 each; own. and bld., Martin Reynolds, Lorimer and Richardson Sts.; arch., Henry Vollweiler, 483 Hart St.

McDougal St., n. s. 150' w Hopkinson Ave., 5 three-sty frame dwells., 20' x 45', tin roofs; \$4,000 each; own. and bld., Lester & Kyerson, on premises; arch.; Rob't Dixon, 219 Montague St.

Lee Ave., w. s. 48' n Hooper St., 2 four-sty brick dwells., 35' x 75', tin roofs; \$10,000 each; own., arch. and bld., Allen Bros. & Co., 571 Fulton St.

Park Pl., e. s. 165' w Nstrand Ave., 6 three-sty and basement brick dwells., 18' x 48', tin roofs; \$8,500 each; own., Jas. G. Roberts, 339 McDonough St.; arch., John A. Davidson, 186 Remsen St.

Wyckoff Ave., n. e. cor. Gates Ave., two-sty and attic frame dwell., tin roof, 25' x 42'; \$5,000; own., M. H. Brunges, 1579 Myrtle Ave.; arch., Th. Engelhardt, 905 Broadway.

Gates Ave., n. s. 140' 8" e Wyckoff Ave., three-sty frame dwell., tin roof, 25' x 60'; \$3,500; own., arch. and bld., Henry Loeffler, Jr., 831 Gates Ave.

East Eighteenth St., e. s. 200' e 6th Ave., two-sty frame dwell., shingle roof, 13' x 37'; \$3,500; own., Mary Amelia Kirtz, 708 Ma St.

Bradford St., e. s. 120' s Belmont Ave., 3 two-sty and basement brick dwells., tin roofs, 20' x 45'; \$4,000 each; own., arch. and bld., German-American Improvement Co., Van Siclen Ave. and Eastern Parkway.

Thirty-fourth St., n. s. 75' e 3d Ave., three-sty brick dwell., tin roof, 25' x 60'; \$5,000; own., Mr. Nabel, 1106 Third Ave.; arch., H. L. Spicer, 1106 Third Ave.

Classon Ave., w. s. 250' s De Kalb Ave., 4 four-sty brick dwells., tin roofs, 20' x 60'; \$6,000 each; own., arch. and bld., Wm. Wingerath, 391 Sixteenth St.

Dean St., n. s. 450' w Carlton Ave., 3 four-sty brick dwells., tin roofs, 27' x 58'; \$12,000 each; own. and bld., Erich Soderstrom, 287 Prospect Pl.

Fifty-fourth St., s. s. 272' 2" e Fourth Ave., 3 two-sty basement and attic brick dwells., tin roofs, 19' x 42'; \$4,000 each; own., arch. and bld., Alex Waldron, 263 Fifty-fourth St.

Macon St., n. w. cor. Marcy Ave., 2 three and four-sty and basement brick dwells., tin roofs, 18' x 21' 6" x 45' x 65'; \$7,500 and \$14,000; own., Dr. Edward Muncie, 363 Tompkins Ave.; arch. and bld., Levi Fowler & Son, 222 Madison St.

Bainbridge St., s. s. 305' 7" e Hopkinson Ave., 8 two-sty and basement frame dwells., tin roofs, 20' x 45'; \$36,000; own., Wm. McLennahan, 1319 Bergen St.; arch., John L. Young, 1239 Bedford Ave.

Thirty-ninth St., s. s. 100' w 5th Ave., 3 three-sty frame dwells., cement and gravel roofs, 25' x 60'; \$9,000; own., William Glazier, 867 Fifth Ave.; arch., W. M. Coats, 189 Montague St.

Cornelia St., s. s. 200' w Central Ave., 12 two-sty and basement frame dwells., tin roofs, 20' x 45'; \$2,800 each; own. and bld., A. Gloud, 38 Elder St.; arch., Henry Vollweiler, 483 Hart St.

East Nineteenth St., e. s. 345' s Avenue A, two-sty and attic frame dwell., shingle and tin roof, 32' 10" x 42' x 32'; \$6,000; own., May Louise Tyler; bld., A. W. Simpson, East Broadway, Flatbush; arch., Wm. P. Hannister, 46 Exchange Pl., New York City.

Chauncey Ave., s. s. 118' w Evergreen Ave., 6 two-sty and basement frame dwells., tin roofs, 19' 6" x 48'; \$3,000 each; own., arch. and bld., Jas. Graham, Chauncey St., cor. Bushwick Ave.

East Nineteenth St., e. s. 215' s Avenue A, two-and-one-half-sty frame dwell., shingle roof, 32' x 34'; \$6,200; own., Eugenia See, 966 Bergen St.; bld., A. W. Simpson, East Broadway, Flatbush; arch., Wm. P. Hannister, 46 Exchange Pl., New York City.

East Eighteenth St., w. s. 350' s Avenue A, two-sty and attic frame dwell., shingle roof, 30' x 33'; \$5,500; own., Chas. S. Cooke; bld., McElvery & Getty, 624 Flatbush Ave.; arch., H. L. Harris, 280 Broadway, New York City.

Neckirk Ave., n. s. 84' e 19th St., two-sty and attic frame dwell., shingle roof, 22' x 40'; \$4,000; own., S.



"DUPLEX"

THE BEST WATER CLOSET

IN THE WORLD

Quiet in Operation,
Positive in Action,
Elegant in Appearance

—AND—

Sanitarily Perfect.

FRED. ADEE & CO.,
90 BEEKMAN ST.,
NEW YORK.

ARCHITECTURAL RENDERING

— IN — PEN AND INK.

By D. A. GREGG, Instructor in PEN-AND-INK DRAWING, at the Massachusetts Institute of Technology.

COMPLETE IN FOUR PARTS.

American Architect & Building News Co., Boston, Mass.

BUILDING INTELLIGENCE.

(Houses Continued.)

W. Giles, 33 William St., New York City; arch., John J. Peters, 186 Remsen St.

Forty-fifth St., s. s. 160' w Third Ave., 15 two-sty brick dwells., tin roofs, 17' 4" x 48'; \$2,200 each; own., C. & A. Hamilton, 52d St., near 4th Ave.; arch., H. L. Spicer, 1106 Third Ave.

Forty-fifth St., n. s. 160' w Third Ave., 25 two-sty brick dwells., tin roofs, 17' 7" x 48'; \$2,200 each; own., C. & A. Hamilton, 52d St., near 4th Ave.; arch., H. L. Spicer, 1106 Third Ave.

Jefferson Ave., s. s. 250' e Lewis Ave., 9 two-and-one-half-sty and basement brick dwells., tin roofs, 19' 5" x 45'; \$5,000 each; own., arch. and bld., T. W. Surmer, 358 Putnam Ave.

Fifty-ninth St., n. s. 100' e 4th Ave., 12 two-sty and basement brick dwells., tin roofs, 20' x 45'; \$2,500 each; own., H. Thompson Galway, 925 Boulevard, Astoria, L. I.; bld., E. T. Hatch.

Fifty-eighth St., s. s. 300' e 4th Ave., 5 two-sty and basement brick dwells., tin roofs, 20' x 45'; \$3,800 each; own., T. C. McKennie, 547A McDonough St.; arch., J. A. Sinclair, 206 Halsey St.

Decatur St., n. s. 115' w Hopkinson Ave., three-sty brick dwell., tin roof, 20' x 45'; \$5,000; own., Wm. McLennahan, 1911 Bergen St.; arch., John L. Young, 1239 Bedford Ave.

Sutton St., e. s. 100' n Driggs Ave., 2 three-sty frame dwells., gravel roofs, 25' x 56'; \$4,700 each; own. and bld., O. W. Humphrey, 40 Driggs Ave.; arch., P. Tillion.

Camden, N. J.—*Lawrence St.*, s. s. above 10th St., 11 two-sty brick dwells.; bld., William Wifford.

York St., n. e. cor. Point St., three-sty brick dwell.; bld., Rob't Kaighn.

Federal St., No. 223, brick dwell.; bld., James F. Davis.

Chicago, Ill.—T. G. Dickinson, 8 two-sty dwells., 5947-5961 Prairie Ave.; \$30,000.

William Frink, 5 cottages, 1449-1459 Sixtieth St.; \$4,000.

William Frink, 4 cottages, 6325-6331 Wood St.; \$4,000.

W. K. Gore, 2 two-sty dwells., 664-670 Forty-eighth St.; \$5,000.

C. P. Campbell, two-sty dwells., 9226 Laurel St.; \$3,000.

J. G. Harlow, two-sty dwell., 1283 Washington Boulevard; \$7,000.

F. Schele, two-sty dwell., 5646 Michigan Ave.; \$7,000.

George P. Burton, two-sty dwell., 5307-5309 Lexington Ave.; \$7,000.

William H. McDermott, two-sty dwell., 35 Woodbine Ave., 4,000.

S. M. Grimes, two-sty dwell., Grand Ave., nr. Lunt Ave.; \$3,000.

Roger Organ, 2 three-sty dwells., 667-669 Forty-eighth St.; \$10,000.

L. Horn, two-sty dwell., 1744 Fulton St.; \$3,000.

Germanatown, Pa.—*Wayne St.*, s. s. e. Coulter St., 10 three-sty brick and stone colonial dwells. with back buildings; own., John Dear and Thomas Dearlove, 45 Mehl St.

Coulter St., s. s. s. w Wayne St., 8 three-sty brick and stone colonial dwells. with back buildings; own., John Dear and Thomas Dearlove, 45 Mehl St.

Penn St., s. s. w Wayne St., 6 three-sty stone and

BUILDING INTELLIGENCE.

(Houses Continued.)

brick colonial dwells. with back buildings; own., John Dear and Thomas Dearlove, 45 Mehl St.

Walnut Lane, w. s. e. Greene St., three-sty stone and brick dwell.; con., C. R. Kohl & Bros., 45 West Johnson St.; own., Mrs. Alice F. C. Clark.

Walnut Lane, w. Greene St., three-sty stone and brick dwell., 35' x 70'; also two-sty stone and brick stable and carriage-house, 24' x 40'; con., Thomas M. Seeds, Jr., 1025 Race St.; about \$15,000.

Gloucester, Mass.—*Main St.*, three-sty brick building for 2 stores and 2 dwells., flat roof, 62' 6" x 65'; own., Christen Nelson; arch., Danl. H. Woodbury, Boston.

Logan Station, Pa.—Three-sty frame and brick dwell., 30' x 40'; own., Howard R. Glassay; arch., T. Frank Miller, Esq., 1221 Arch St.

Moorestown, N. J.—F. W. Meeker has prepared plans of a house to be built for George H. Brown.

Needham, Mass.—*Hillside Ave.*, two-sty frame dwell., pitch roof, 26' x 34'; own., W. R. Cranston; bld., Peter McAleer; arch., Herbert Moseley, 50 Bromfield St., Boston.

Newton Highlands, Mass.—*Dickerman Road*, two-sty frame dwell., hip roof, 30' x 41'; own., C. E. Hanscom; bld., W. W. Caulkin; arch., Herbert Moseley, 50 Bromfield St., Boston.

New York, N. Y.—*One Hundred and Fifth St.*, s. w cor. West End Ave., 4 three-sty brick dwells., flat tin roofs, 20' x 55' x 63' 54'; \$72,000; own., John J. Farley, 140 West 137th St.; arch., Thom & Wilson, 1267 Broadway.

One Hundred and Fifty-second St., n. s. 150' w Amsterdam Ave., 6 three-sty brick dwells., flat tin roofs, 15' 17' 18' x 52' 41'; \$60,000; own., John M. Cahill, 629 West 152d St.; arch., Henry Foushaux, 11th Ave. and 162d St.

One Hundred and Forty-seventh St., s. s. 25' 6" w Boulevard, 5 three-sty brick dwells., flat tin roofs, 15' x 52' 41'; \$45,000; own., Gustave Deisler, 606 West 147th St.; arch., Buchman & Deisler, 11 East 59th St.

Welsh St., s. s. 110' e Webster Ave., 2 three-sty brick and frame dwells., flat tin roofs, 22' x 45' 34'; \$8,000; own., James Wilkenon, Webster Ave. and Welsh St.; arch., Andw. J. Lang, Washington and Pelham Aves.

Amsterdam Ave., w. s. 25' n 82d St., 3 five-sty brick dwells., flat tin roofs, 27' 6" x 88' 60'; \$30,000; own., Gordon Bros., 493 West End Ave.; arch., George A. Schellinger, 128 Broadway.

Overbrook, Pa.—*Lancaster Ave.*, n. s. e. City Ave., 2 three-sty stone and brick dwells. with back buildings and two-sty stone stable attached, facing City Ave.; own. and bld., Wendell & Smith.

City Ave., e. s. n Lancaster Ave., 2 three-sty stone and brick dwells. with back buildings; own. and bld., Wendell & Smith.

Philadelphia, Pa.—*Terrace St.*, n. Cedar St., 2 three-sty dwells.; bld., Robert Boon, 4105 Manayunk Ave.

Albertson Ave., n. w cor. 81st St., two-sty frame dwell. with back building; bld., William G. Hill, 3008 Wallace St.

Locust St., s. s. e. 45th St., 6 three-sty brick dwells.; own., Gibson & Co., 2304 Federal St.



Copyright, 1893, by THE J. L. MOTT IRON WORKS.
PLATE 1146-G. REDUCED CUT.

THE J. L. MOTT IRON WORKS.

84 to 90 Beekman Street, NEW YORK,

AND

311 & 313 Wabash Avenue, CHICAGO.

THE RICHMOND

IMPERIAL . . .
PORCELAIN OR
COLONIAL . . .

FLUSHING-RIM SLOP-SINK

Represents a new and valuable departure. The Flushing-Rim is an integral part of the Sink, which is strong and durable. The Sink is glazed inside and out, and is well adapted for Public Buildings, Hospitals, and Residences. The Imperial Porcelain is white inside and light buff outside; the Colonial is light buff inside and outside.

Illustrated price-list mailed on application.

BUILDING INTELLIGENCE.

(Houses Continued.)

Butler St. n.w. cor. 15th St., 6 two-st'y brick dwells. with back buildings; own., Harry Brocklehurst, 514 Norris St.

Forty-fifth St., e s Locust St., 10 three-st'y brick dwells. with back buildings; own., Gibson & Co., 2304 Federal St.

Locust St., s e cor. 45th St., three-st'y brick dwell.; own., Gibson & Co., 2304 Federal St.

Sixth St., No. 6517, three-st'y frame Queen Ann dwell. with back building; con., R. J. Kirby, 334 South 15th St.

Dilmore St., w s, s Wolf St., 12 two-st'y brick and brownstone dwells.; own., Hugh McNell, 1944 Pass-yunk Ave.

Gray's Ferry Ave., No. 606, three-st'y brick dwell.; con., J. McCloskey, 3064 Wallace St.

Adrian St., No. 510, three-st'y brick dwell. with back building; con., Robert Craig, 103 Oxford St.

North Broad St., No. 1246, four-st'y stone and brick dwell.; con., George Kessler, 1543 Perth St.

Market St., s s, e 60th St., 2 two-st'y brick dwells.; con., G. W. Steinmetz, Haverford Ave. and 60th St.

Eighth St., e s, s Indiana Ave., 2 two-st'y brick dwells. with back buildings; con., John Hobert, 3357 Mascher St.

Sixth St., w s, s Venango St., 3 two-st'y brick dwells. with back buildings; bld., C. B. Peacock, 3909 North 5th St.

Midvale St., e s, n Ridge Ave., two-st'y brick dwell.; con., John C. Matlack, 2322 East Cumberland St.

Wolf St., w s, w 10th St., 8 two-st'y brick dwells. with back buildings; own., Thomas Gibson, 722 Snyder Ave.

Forty-eighth St., s s, w Warrington Ave., 8 three-st'y brick dwells.; own. and bld., Chas. W. Budd & Bro., 1821 Spring Garden St.

Market St., s s, bet. 43d and 44th Sts., 16 three-st'y brick dwells. with back buildings; own., John G. Ruff, 619 Cherry St.

Kiomet Ave., n s, e Newtown Railroad, two-st'y brick and stone dwell.; own., N. Keys, 5424 Fairhill St.

Wolf St., s w cor. 10th St., 13 two-st'y brick dwells.; own., Killough Bros., 1920 Bainbridge St.

Norris and Twenty-fifth Sts., 3 two-st'y brick and stone dwells. with back buildings; own., Thomas Batley, 909 Lehigh Ave.

Asbury Lane and York Road, near 60th St., two-st'y stone and frame dwell. with back building; own., George W. Woolford, 2238 North 9th St.; about \$9,000.

Walnut St., No. 2263, residence for C. Kennedy, stone front; arch., James H. Houston, with Furness, Evans & Co., Provident Life and Trust Building.

Baltimore Ave. and *Fifty-first St.*, 76 two and three-st'y dwells.; the fronts are to be of buff and mottled brick with stone trimmings; own., Frank M. Malcolm; con., John J. Raney, 703 Hale Building.

Somerville, Mass.—*Benedict St.*, No. 17, two-and-one-half-st'y frame dwell., pitch roof, 28' x 52'; \$3,500; own., T. A. Shedd; bld., Jonathan Clark; arch., S. D. Kelley, Boston.

Columbus Ave., cor. Stone Ave., frame dwell.; own., A. F. Rowe; bld., S. & C. H. Williams.

Jagges St., cor. Snow Terrace, frame dwell.; own., Mary A. Watson; bld., E. C. Ritchie.

BUILDING INTELLIGENCE.

(Houses Continued.)

Bradley St., 2 frame dwells.; own., Samuel C. Lawrence; bld., W. C. Edwards.

Thurside Ave., near Elm St., frame dwell.; own., Mrs. Emma Wannamaker; bld., Belding Bros.

St. Louis, Mo.—Two-st'y dwell., e s Aubert St., bet. Delmar and Fountain Sts.; \$16,000; own. and con., C. Pipe.

West Newton, Mass.—*Otis St.*, two-and-one-half-st'y frame dwell., hip roof, 35' x 40'; \$6,500; own., Mary L. C. Leland; bld., Wm. Kellar; arch., E. L. Clark, Boston.

Worcester, Mass.—*Gage St.*, three-st'y frame dwell., 26' x 42'; own. and con., W. B. Howe.

Circuit Ave., one-and-one-half-st'y frame dwell., 27' x 35'; own., Ellen E. Waterman; con., D. M. Waterman.

Circuit Ave., one-and-one-half-st'y frame dwell., 24' x 44'; own., Warden & Phelps; con., D. M. Waterman.

Park Ave., three-st'y frame dwell., 36' x 52'; own., C. W. Bowker; day-work.

MERCANTILE BUILDINGS.

Boston, Mass.—*Lincoln St.*, Nos. 66-102, Ward 12; six-st'y brick structure for mercantile purposes, flat roof, 62' x 187'; own., J. S. Farlow Estate; bld., James Smith; arch., W. T. Sears.

Essex St., No. 96, four-st'y brick structure for mercantile purposes, flat roof, 26' x 41'; \$10,000; own., N. Rosenfeld; arch., Herbert Moseley, 50 Bromfield St.; contract to be let by the architect.

PUBLIC BUILDINGS.

Biloxi, Miss.—New city-hall; \$13,987; con., G. C. Taylor & Co., Meridian.

New York, N. Y.—*Fifty-fourth St.*, s s, 225' w 8th Ave., five-st'y brick court-house and prison, flat and peak brick and copper roof, 50' x 196', 91'; \$208,000; own., City of New York, City-hall, New York; arch., J. H. Duncan, 21 West 24th St.

SCHOOL-HOUSES.

Bristol, Conn.—Two-st'y brick school, brownstone trimmings; \$30,000; arch., L. L. Stewart; contract not let.

Way Cross, Ga.—\$20,000 school, will be built; arch., W. Chamberlin & Co., Knoxville, Tenn.

STABLES.

Baltimore, Md.—Two-st'y brick stable, 18' x 46', n w cor. York and William Sts.; own., Hugh McWilliams, 222 Warren Ave.

Brooklyn, N. Y.—*Nassau St.*, No. 127, two-st'y brick stable, gravel roof, 20' x 96'; \$3,500; own., Wm. Thompson, on premises; bld., Thos. Donlon, 129 Pacific St.

Chicago, Ill.—Isaac Hirsch, two-st'y stable, 353 Oakwood Boulevard; \$3,000.

P. Hurson, two-st'y stable, 1657 Twelfth St.; \$4,500.

New York, N. Y.—*West Sixty-eighth St.*, No. 301, two-st'y brick stable, flat tin roof, 27' x 45', 23'; \$4,500; own., Michael Flick, 81 West End Ave.; arch., G. F. Peilham, 503 Fifth Ave.

East One Hundred and Sixth St., No. 223, two-st'y brick stable, flat tin roof, 20' x 96', 26'; \$4,000; own., A. D. Krahmer, 173 East 105th St.; arch., A. L. Wakeman, 93 Nassau St.

BUILDING INTELLIGENCE.

(Stables Continued.)

Philadelphia, Pa.—*City Ave.*, n Lancaster Pike, one-st'y stone stable, 32' x 36'; own., Governor Pattison; bld., Wendell & Smith, Overbrook, Pa.

Wissahickon Ave., opp. Mannheim St., two-st'y stone stable and coach-house; bld., Charles O. Roop, 4 Herman St.

Frederick St., e s, s Berks St., three-st'y brick stable; con., John T. Sanders, 2140 North 11th St.

Orleans St., w s, 122' s McKean St., two-st'y brick stable; own., James C. Kennedy, 1418 Castle Ave.

Howard St., s e cor. Courtland St., two-st'y frame stable.; con., Lewis B. Bitters, Rockland St., e 3d St.

Holmesburg Junction, 2 one-st'y frame stables, 12' x 25' and 12' x 90'; bld., Emerson E. McCargo, 2209 Venango St.

Dilmore St., No. 2021, one-st'y brick stable; own., Patrick Powers, 901 Snyder Ave.

Elmwood Ave., w s, above 59th St., one-and-one-half-st'y frame stable; own., Samuel Crothers, Elmwood Ave., above 59th St.

Holstein Ave., s w s, near 81st St., one-st'y frame stable and carriage-house; own., Thomas Cox, Holstein Ave., near 81st St.

Thirty-fourth St., e s, (rear) s Lehigh Ave., one-and-a-half-st'y brick stable; con., Charles E. Bartle, 519 Jamestown Ave.

Orkney St., w s, n Somerset St., two-st'y brick stable; own., Charles Roth, 432 Huntingdon St.

West Newton, Mass.—*Hillside Ave.*, two-st'y frame stable, hip roof, 30' x 40'; \$3,500; own., Mary L. C. Leland; bld., Wm. Kellar; arch., E. L. Clark, Boston.

STORES.

Brooklyn, N. Y.—*Third Ave.*, e s, 85' s 47th St., four-st'y brick store and dwell., tin roof, 30' x 60'; \$10,000; own., James Burk, 47th St., near 3d Ave.; arch., H. L. Spicer, 1106 Third Ave.

Third Ave., e s, 115' s 47th St., 3 four-st'y brick stores and dwells., tin roofs, 20' x 55'; \$6,500 each; own., James Burk, 47th St., near 3d Ave.; arch., H. L. Spicer, 1106 Third Ave.

Richardson St., n e cor. Lorimer St., and Lorimer St., s e cor. Bayard St., 2 three-st'y frame stores and dwells., 28' x 59', tin roofs; \$4,500 each; own. and bld., M. Reynolds, Lorimer and Richardson Sts.; arch., Henry Vollweiler, 483 Hart St.

Patchen Ave., s w cor. Putnam Ave., 4 four-st'y brick stores and dwells., 26' x 65' 2", tin roofs; \$20,000; own., Oscar Wiedhoff, 1150 Hancock St.; arch., Hugo Smith, 10 Moore St.

Bedford Ave., w s, 64' s Gates Ave., 2 three-st'y brick stores and dwells., 19' x 40', tin roofs; \$9,000; own., E. Butterick, Franklin and Monroe Sts.; arch., S. H. Greenland, 171 Pulaski St.

Chicago, Ill.—Theodore Bendelspacker, two-st'y store and flats, 258 Roscoe St.; \$3,200.

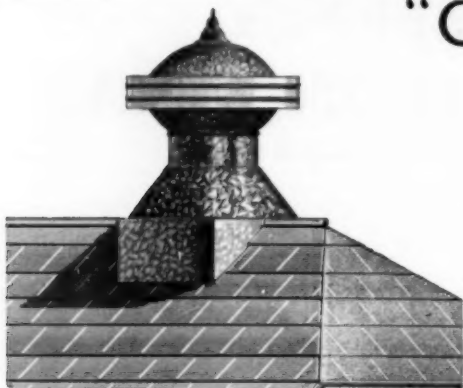
Frank Leshner, two-st'y store and flats, 878 Thirty-second St.; \$6,000.

William Seitz, two-st'y store and flats, 1671 West North Ave.; \$3,000.

Bertha Kozminski, three-st'y store and flats, 3014-3016 Westworth Ave.; \$10,000.

E. S. Ioham, 5 three-st'y store and dwells., 165-171 East Van Buren St.; \$20,000.

Joseph Anyezkiewicz, three-st'y store and flats 162 Coblenz St.; \$4,800.



"COME OFF THE ROOF"

may be a slang expression, but it doesn't apply to

GLOBE VENTILATORS.

They "Get there" and "Stay there,"

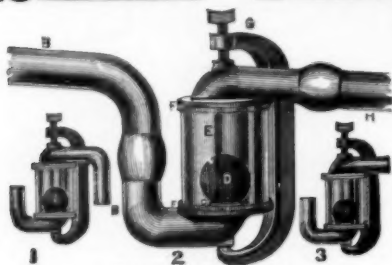
Through sunshine and through storm, doing their work silently, steadily, satisfactorily.

Send for Special Pamphlet on Ventilation.

MANUFACTURED BY

GLOBE VENTILATOR COMPANY,
TROY, NEW YORK.

BENNOTT SYPHON TRAP.



Patented Feb. 13, 1883.

WITHOUT EXCEPTION THE
BEST
IN THE MARKET.

MANUFACTURED ONLY BY

HAINES, JONES & CADBURY CO.,
1136 Ridge Avenue,
PHILADELPHIA, PA.
Prices reduced. Send for New Circular.

BUILDING INTELLIGENCE.

(Stores Continued.)

Fred Griesbach, four-sty store and flats, 5012-5014 Cottage Grove Ave.; \$35,000.
H. Schumann, three-sty store and flats, 1210 Sixty-third St.; \$6,000.
C. J. Hambleton four-sty store, flats and hall, Clark and Belmont Aves.; \$80,000.
F. Strasewski, three-sty store and flats, 672 Humboldt Ave.; \$3,000.
James Caraker, two-sty store and flats, 350 South Halsted St.; \$4,000.
Con Feely, three-sty store and flats, 9229 Cottage Grove Ave.; \$6,000.
L. Hatten, two-sty store and flats, 5333 State St.; \$3,000.
William Lumf, two-sty store and flats, 5308 Ashland St.; \$3,000.
W. Kraus, three-sty store and flats, 1612 West 12th St.; \$6,000.
John H. King, three-sty store and flats, 562 West Polk St.; \$3,000.
Patrick Garrity, three-sty store and flats, 4630 Cottage Grove Ave.; \$8,500.
Jacob Kuntz, two-sty store and flats, 3300 Union Ave.; \$5,500.

New York, N. Y.—Broadway, No. 603, eight-sty brick store, flat gravel roof, 25' x 103', 100'; \$80,000; own., Ferdinand H. Mela, 13 Astor Pl.; arch., Cleverdon & Putzell, 8th St. and Astor Pl.
Broome St., n e cor. Mercer St., nine-sty brick store, flat tin roof, 50' x 50', 110'; \$75,000; own., John T. Williams, 871 Madison Ave.; arch., A. Zusker, 871 Madison Ave.

Philadelphia, Pa.—Germantown Ave., near Rising Sun, two-sty brick and stone store and dwell.; con., Henry G. Schultz, 2633 Germantown Ave.

Snyder Ave., s e cor. Hicks St., and Jackson St., n e cor. Hicks St., 2 three-sty stores and dwells., also 24 two-sty dwells.; bld., George W. Steinbach, 1314 South 15th St.

South St., s s bet. 5th and 6th Sts., 3 four-sty brick stores and dwells. or tenements; own., Abe Kiocky; arch., J. Elvin Jackson, Esq., 806 Walnut St.; about \$25,000.

Columbia Ave., n e cor. 9th St., three-sty and basement brick store and dwell.; con., R. J. Ross & Co., 1729 Fairmount Ave.

Dilmore St., n w cor. Moyamensing Ave., two-sty brick and brownstone store and dwell.; own., Hugh McNeil, 1944 Passyunk Ave.

South St., s s e 13th St., 3 three-sty brick stores and dwells. with back buildings; con., Weeks & Michaelson, 913 Walnut St.; own., S. Snellenburg.

South Fifth St. No. 759, three-sty brick store and dwell.; con., G. Levan & Co., 1893 Cuba St.

Wolf St., s w cor. 10th St., 2 three-sty and 1 two-sty brick stores and dwells.; own., Killough Bros., 1920 Bainbridge St.

South St., s w cor. 13th St., three-sty store; own., Samuel Forsythe; arch., J. Franklin Stuckert, 49 North 13th St.

Pottstown, Pa.—Charlotte St., n Beech St., large brick store; own., M. Y. Sionaker.

St. Louis, Mo.—Seven stores, 12th and Locust Sts.; \$95,000; own., H. Oliver; not let.

Put into the White House by the U. S. Government.



For venting, use vent-top.

For venting, use vented outlet



F. E. CUDELL'S
PATENT SEWER-GAS AND BACK-WATER TRAP
For Wash-Bowls, Sinks, Bath and Wash-Tub
West Cleveland, O.

BUILDING INTELLIGENCE.

(Stores Continued.)

Three-sty store, n s, Easton St. bet. Newstead and Taylor Aves.; \$9,000; own., J. Neff; con., G. Neff.
Four-sty store-building, s s Locust St., bet. 7th and 8th Sts.; \$12,750; own., Miss M. Patterson; con., W. Meyer.

TENEMENT-HOUSES.

Boston, Mass.—Endicott St., Nos. 98-100, Ward 7, four-sty brick tenement, flat roof, 19' 4" x 55', with store on first floor; own., Austin Cannon; bld., J. J. Coon & Co.

North Margin St., No. 50, Ward 7, four-sty brick tenement, flat roof, 29' 8" x 35' 2"; own., A. Finklestein; bld., Brodnowski & Hurwich.

Roxbury, Mass.—Malton Pl., 5 three-sty frame tenements, flat roofs, 19' x 32'; own., Sarah B. Parker; arch., S. D. Kelley.

WAREHOUSES.

Hartford, Conn.—State St., s s, five-sty brick warehouse, 39' x 100', with addition, 50' x 50'; own., E. S. Kibbe Co.

St. Louis, Mo.—Four-sty warehouse, n e cor. 8th and Spruce Sts.; \$25,000; own., J. Cuppler; con., J. Bright.

MISCELLANEOUS.

Brooklyn, N. Y.—Surf Ave., cor. Iron Pier Walk, one-sty frame hall, 70' x 85', felt, tar and corrugated iron roof; \$4,000; own., J. A. Seely, 371 Hancock St.; bld., McEnery & Hilton, 17 Hawes St., New York; arch., C. W. M. Smith, 111 Broadway, New York.

Chicago, Ill.—J. O'Neill, elevator building, Commercial Ave. and 102d St.; \$150,000.

COMPETITIONS.

STATE-HOUSE.

[At St. Paul, Minn.]

Pursuant to the provisions of Chapters 2 and 3 of the General Laws of Minnesota for 1893, the Board of State Capitol Commissioners hereby give notice that they will receive, prior to **September 11, 1894**, (and on said date will meet, and proceed to examine) designs for a new Capitol building for the State of Minnesota.

The building is to be fireproof throughout, designed in accordance with approved modern methods of construction, and equipped with the best known methods of heating and ventilation.

The entire cost of the building complete, including heating, ventilating and lighting apparatus and fixtures, must not exceed the sum of one million five hundred thousand dollars (\$1,500,000).

Four premiums, of five hundred dollars (\$500) each, will be awarded to the designs adjudged to stand, in point of merit, second, third, fourth and fifth, the accepted design to receive no other premium than the fee allowed by the Board for designing and superintending the construction of the building.

Detailed instructions, with a map of the grounds on which the building is to be erected, will be furnished on application.

All communications and all designs submitted in accordance herewith, should be addressed to "The Board of State Capitol Commissioners, St. Paul, Minn."

The Board reserves the right to reject any or all designs submitted to them, and to proceed anew thereafter.

St. Paul, June 11, 1894.

H. W. LAMBERTON,
JAMES MCHECH,
GEO. A. DUFOIT,
CHANNING SEABURY,
JOHN DE LAITRE,
C. H. GRAVES,
E. E. CORLISS,
Commissioners.

PROPOSALS.

ASYLUM.

[At Milledgeville, Ga.]

Proposals are wanted until **July 10**, for a main building and annexes for the State Lunatic Asylum,

"THE CAST SINK MUST GO"

THE COLUMBUS SINK REPLACES ALL OTHERS

PAINTED, GALVANIZED, ENAMELLED.

Send for descriptive circular and prices, to
The Kilbourne & Jacobs Mfg. Co.
Sole Manufacturers. — COLUMBUS, OHIO

THE VAN VRANKEN FLUSH TANK.
For Sewers, Subsoil Disposal, etc.

For catalogues, discounts and other particulars, address
J. LELAND FITZGERALD,
437 STATE STREET, SCHENECTADY, N. Y.

PROPOSALS.

to cost not exceeding \$100,000. Address HON. G. A. CABANISS, President Board of Trustees, as above. 967

ENGINE-HOUSES.

[At Springfield, Mass.]

Proposals are wanted until **July 16**, for three engine-houses. Plans and specifications can be seen at office of B. Hammett Seabury, architect, Gill's Block, Springfield, Mass. Address J. E. Dunleavy, as above. 968

STEAM-HEATING.

[At Springfield, Mass.]

Proposals are wanted until **July 16**, for heating apparatus for three engine-houses. Drawings can be seen at office of B. Hammett Seabury, architect, Gill's Block, Springfield, Mass. Address J. E. Dunleavy, as above. 968

Treasury Department, Office Supervising Architect, Washington, D. C., June 28, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 27th day of July, 1894, and opened immediately thereafter, for all the labor and materials required for the iron-furring, lathing, plastering, etc., for the United States Court-house and Post-office at Wilmington, Del., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Wilmington, Del. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated for opening will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Iron-furring, Lathing, Plastering, etc., for the United States Court-house and Post-office at Wilmington, Del.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 968

Treasury Department, Office Supervising Architect, Washington, D. C., June 29, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 19th day of July, 1894, and opened immediately thereafter, for all the labor and materials required for the brick and terra-cotta floor and ceiling arches, concrete filling, terra-cotta furring, etc., for the United States Post-office building at Worcester, Mass., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Worcester, Mass. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, or to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Floor-arches, Concrete Filling, etc., for the United States Post-office, etc., building at Worcester, Mass.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 967

Treasury Department, Office Supervising Architect, Washington, D. C., June 29, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 20th day of July, 1894, and opened immediately thereafter, for all the labor and materials required for roof-sheathing, slate and copper-work of roof, down and drain-pipes, roof-skylight, etc., for the United States Post-office, etc., building at Worcester, Mass., in accordance with drawings and specification, copies of which may be had at this office or the office of the Superintendent at Worcester, Mass. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Roof-sheathing, Slate and Copper-work of Roof, Down and Drain-pipes, Roof-skylight, etc., for the United States Post-office, etc., building at Worcester, Mass.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 967

Fire-proof Building.

RARITAN HOLLOW AND POROUS BRICK CO.,
 MANUFACTURERS OF
Hollow Fire-Clay and Porous Terra-Cotta Bricks
 of Every Description, for Fireproof Buildings.
BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.
 Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.
 Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.
HENRY MAURER & SON,
 Manufacturers of
FIRE-PROOF BUILDING MATERIAL
 Of every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.
 Porous Terra-Cotta, Fire-Brick, etc., etc.
 Works, MAURER, N. J. Office and Depot, 430 EAST 23d STREET, New York.
 Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."

C. FARDEE } Manufacturers All Kinds Fireproof Building Materials, etc.
WORKS, } Perth Amboy, N. J. See ad. on page XX.

PIONEER FIREPROOF CONSTRUCTION CO.

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile AND Porous Terra-Cotta

FOR FIREPROOFING BUILDINGS.

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

TO ARCHITECTS,
 BUILDERS
 AND OWNERS.

Sample and Circulars Free.

MINERAL WOOL,

As a Lining in Walls and Floors for preventing the
 ESCAPE OF WARMTH AND THE DEADENING OF SOUND.

AMERICAN MINERAL WOOL CO.

Lessee of

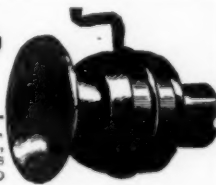
Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N.Y. City.



W. R. OSTRANDER & CO.,
 204 Fulton Street, New York.

Manufacturers of

Speaking-Tubes, Whistles, Oral, Electric, Mechanical and Pneumatic Annunciators & Bells, Complete outfits of Speaking-Tubes, Whistles, Electric, Mechanical, and Pneumatic Bells. A full line always in stock. Send for New Catalogue. Factory, De Kalb Ave. near Knickerbocker, Brooklyn, N. Y.

**Building Stones.**

J. P. FALT & COMPANY,

Quarrymen & Miners of

RED SANDSTONE.

Contractors for CUT-STONE WORK.

Proprietors of Carlisle Quarries, Springfield, Mass. Prices for rough stone furnished on application, and estimates made for cut-stone work to be delivered at any railroad point. Correspondence solicited. Send for samples.

BOSTON FIRE-BRICK WORKS.**FRONT BRICK**

BUFF, BROWN, MOTTLED YELLOW,
 GRAY, OLD GOLD AND
 OTHER COLORS.

**ARCHITECTURAL
 TERRA-COTTA**

In all its varied colors and forms.

FISKE, HOMES & CO.,

MANAGERS,

Factories on Federal Street and
 at South Boston.

Office, 164 Devonshire St., Boston.

Times Building, Park Row, New York.

927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.

SOLE OWNERS AND MANUFACTURERS OF

J. G. MERRILL'S PATENT

SALAMANDER

Fire-Proof Composition

FOR BUILDINGS.

Used as Lining between Floors, and upon Walls, Ceilings, Elevator and Light Shafts, Boiler Rooms, Doors, Shutters, etc. It is Air, Dust, and Vermin Proof, and a Sound-



Deadener.

Office, 166 Devonshire Street, BOSTON.

A. J. HODDER, Pres. CHAS. T. BAKER, Treas. W. D. LOMBARD, Gen. Mgr.'s

Room 49 Master Builders Association Building.



For estimates on

**ASPHALT
 WORK**

of every description apply to Manager,

T. Hugh Boorman,

N. Y. Mastic Works, 35 Broadway, N. Y. Asphalt Mine Owners in France, Sicily, etc.

Massachusetts Material-Men and Contractors.

ARTIFICIAL STONE.	FIREPROOFING.	HEATING CONTRACTOR.	PAPIER MACHÉ.
SIMPSON BROS. 166 Devonshire St. Boston, Mass.	BOSTON FIREPROOFING CO. 166 Devonshire St. Boston, Mass.	W. E. FLORENCE, 247 Pynchon St. Boston, Mass.	CONLAN & MAYBECK, 65 Wareham St. Boston, Mass.
BUILDING CONTRACTORS.	FURNACES.	IRON WORK. (Building)	PRINTING.
LITTLEFIELD BUILDING CO. Incorporated. Room 57, 166 Devonshire St. Boston, Mass.	CYRUS CARPENTER & CO. 44 Hanover St. Boston, Mass.	R. F. HAWKINS' IRON WORKS, Springfield, Mass.	S. J. PARKHILL & CO. 218-226 Franklin St. Boston, Mass.
CARVERS, MODELLERS.	GRANITE.	MANTELS. (Wood)	SASH CORD.
JOHN EVANS & CO. 77 Huntington Ave. Boston, Mass.	GRANITE RAILWAY CO. 166 Devonshire St. Boston, Mass.	J. W. BAILEY & SONS CO. 14 Charlestown St. Boston, Mass.	SILVER LAKE CO. 78 Chauncy St. Boston, Mass.
ELECTRIC WORK.	HEATING. (Air & Water)	MASON CONTRACTORS.	SLATE. (Roofing)
BLODGETT BROS. & CO. 383 Federal St. Boston.	MAGEE FURNACE CO. 30-8 Union St. Boston, Mass.	THOMAS J. LYONS, 166 Devonshire St. Boston, Mass.	H. H. MATHEWS, 178 Devonshire St. Boston, Mass.

Bricks and Terra-Cotta.

HYDRAULIC BRICK,
PLAIN AND MOULDED
OF ANY COLOR.
RED, BUFF, GRAY, BROWN,
PINK, MOTTLED, GRANITE.

Total Annual Capacity, 100,000,000.

HYDRAULIC-PRESS BRICK CO.,
ODD FELLOWS' BUILDING,
ST. LOUIS, MO.

PERTH AMBOY
TERRA-COTTA COMPANY,

PERTH AMBOY, NEW JERSEY.

OFFICE, 289 Fourth Ave., New York.

PHILADELPHIA
OFFICE,
DREXEL BLDG.

BOSTON AGENTS,
WALDO BROS.,
88 Water Street.

TIFFANY PRESSED BRICK CO.,

Manufacturers of

Pressed and Enamelled Brick,
Plain and Ornamental,
403 Chamber of Commerce Bld'g,
CHICAGO.

"Architects" SPECIFY **LAFARGE'S CEMENT**

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,

Importer and Sole Agent,

81 and 83 Fulton St., N. Y.

GOETZ BOX ANCHOR

SELF RELEASING AND PREVENTS
DRY ROT IN TIMBER.

GOETZ POST CAP

STRONGEST OF ALL AND YET
SELF RELEASING.

GOETZ JOIST HANGER

WROUGHT IRON MACHINE MADE.
STRONGEST AND CHEAPEST.
BORE TWO HOLES. NO MORTISING.
GOETZ BOX ANCHOR CO.,
72 STATE ST., NEW ALBANY, IND.



SEND
FOR
CATALOGUE.

**NEW YORK
ARCHITECTURAL TERRA COTTA
COMPANY.**

OFFICE,
38 PARK ROW,
New York City.

WORKS,
LONG ISLAND CITY,
New York.

GENERAL AGENTS FOR NEW ENGLAND:
BOSTON FIRE BRICK COMPANY,
Fiske, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.

STEPHENS, ARMSTRONG & CONKLING,
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, Philadelphia, Pa.

—INDIANAPOLIS—
TERRA-COTTA CO.

Works: Brightwood, Ind.
ESTIMATES ON SPECIAL DESIGNS PROMPTLY
FURNISHED. WRITE FOR CATALOGUE
AND DISCOUNTS.
SEMI-GLAZE OR DEAD-FINISH,
ALL COLORS.

**POMPEIIAN,
BUFF AND RED PRESSED,
ALSO ORNAMENTAL**

FACE BRICK MANUFACTURE.

CAPACITY, 100,000,000 PER ANNUM.

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

**FRONT BRICKS
AND
TERRA-COTTA**

—IN OVER TWENTY COLORS.—

Chimney Flue Linings, Chimney Tops, Drain
Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,
86 WATER STREET. - - BOSTON.

THE
Northwestern Terra-Cotta Co.
Manufacturers of

Architectural Terra-Cotta.

WORKS & MAIN OFFICE:
Cor. Olybourn & Wright-
wood Avenues.

CITY OFFICES:
Room 1118 Rookery Bldg.
Cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for
Catalogue and Samples.

BRICK OF ANY COLOR
AND
OF ALL SHAPES.

BRICK FIREPLACES.

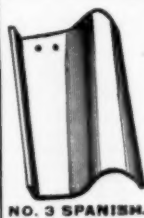
BALTIMORE ROOFING TILE CO.

BURNS, RUSSELL & CO., Proprietors,
535 Columbia Avenue, Baltimore, Md.,

MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other
styles of Clay Roofing Tiles in all colors,
glazed or unglazed.

CATALOGUE ON APPLICATION.



NO. 3 SPANISH.



ROMAN

C. PARDEE WORKS, Perth Amboy, N. J.
MANUFACTURERS
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIREPROOF BUILDING MATERIALS, ETC.

Giant Metal Sash Chain.

MADE ONLY BY
THE SMITH & EGGE MANUFACTURING CO.,
BRIDGEPORT, CONN.

The most reliable and economical article in the market for the purpose. GREAT TENSILE STRENGTH. Does not corrode; does not lose its vitality by continuous use, or exposure to the elements; runs over any pulley, and gives satisfaction wherever it is used. Fixtures made of steel wire, is very simple and easily applied. Prices very low. Samples sent to any architect in the United States, free, on application. Now in use in State House, Hartford; Providence City Hall; Singer Building, Chicago; J. C. Flood's, Menlo Park, Cal.; Vancouver and Florence Plaza, New York; new State, War and Navy Departments, and Patent Office, Washington, D. C.; Herald Building, Boston, and very many other fine buildings in all parts of the United States.

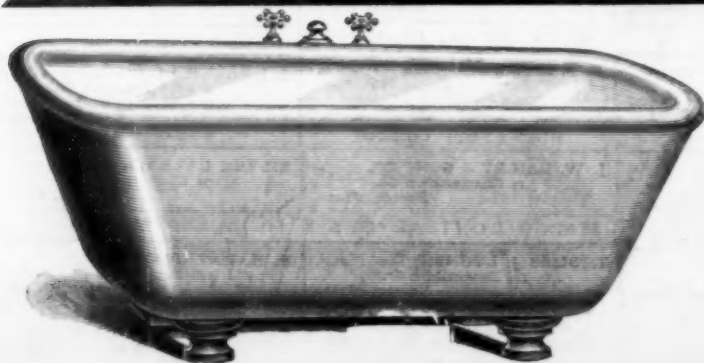
DIXON'S GRAPHITE PAINT

FOR TIN OR SHINGLE ROOFS AND IRON WORK. Tin roofs well painted have not re-
quired repainting for 10 to 15 years.

If you need any paint it will pay you to send for circular.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

Porcelain Bath Tubs



"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.

"SLUICE" Syphon Jet Water Closet.

MINTON'S TILES

For Bathrooms, Halls and Vestibules; Glazed,
Unglazed and Enamelled.

**MILLER & COATES, 279 PEARL STREET
NEW YORK.**

260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.

THE ONLY MEDAL AND AWARD FOR SHINGLE STAINS

At the World's Columbian Exposition

HAS BEEN AWARDED TO

DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.



Magnesia Covering

Quality

in steam includes dryness.

Covered pipes make dry steam possible.

is the best non-conductor,—also, it lasts. Therefore, it is the best covering.

THE KEASBEY & MATTISON CO. (Successors to the MAGNESIA SECTIONAL COVERING CO.), Ambler, Pa.

ROBERT A. KEASBEY, 34 Warren Street, New York.

S. C. NIGHTINGALE & CHILDS, 134 Pearl Street, Boston, Mass.

PEERLESS COLORS FOR MORTAR.

BLACK, RED, BROWN, BUFF. NEW COLORS.

**MOSS GREEN, ROYAL PURPLE, FRENCH GREY, POMPEIIAN BUFF,
COLONIAL DRAB.**

THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.

ALSO

PLASTER ARCHITECTURAL ORNAMENTS FROM ORIGINAL AND SPECIAL DESIGNS.

SAMUEL H. FRENCH AND CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.



**80-Paged Illustrated Catalogue
of over 250 Designs of
Superior**

**WEATHER VANES,
TOWER ORNAMENTS,
CHURCH CROSSES,
FINIALS, Etc., Etc.**

Mailed to any address for 2-cent stamp—half the postage.

T. W. JONES, Manufacturer
170-172 FRONT ST., New York.



We are the only manufacturers of Chrome Steel in the United States.

None genuine unless stamped with our
Trade Mark.

FOR SAFES ^{AND} VAULTS

**Positively Burglar-proof, cannot be
Cut, Sawed, or Drilled,**

CHROME STEEL WORKS, Brooklyn, N. Y.

FARRAND & VOTEY ORGAN COMPANY,

ORGAN BUILDERS.

LARGEST AND MOST COMPLETE WORKS IN THE COUNTRY.

CORRESPONDENCE SOLICITED.

BRANCH OFFICES { 1945 Park Avenue, N. Y.
269 Dearborn Street, Chicago.

Works and Main Office at Detroit, Michigan.

ALPHABETICAL LIST OF ADVERTISERS.

The (E) indicates that the advertisement may be found in the last or the following issue: the (M) that it may be found in the first issue for each month.

A.	B.	C.	D.	E.	F.	G.	H.	I.	J.	K.	L.	M.	N.	O.	P.	Q.	R.	S.	T.	U.	V.	W.	X.	Y.																																																																																																																																															
Abel, C. C. & Co.....	Abell, J. L.....	Acme Cement Works.....	American Boiler Co.....	American Fireproofing Co. (Salamander).....	American Manufacturing Co.....	Apollo Iron & Steel Co.....	Armstrong & Co., Mailland.....	Babcock & Wilcox.....	Bally & Truscott.....	Baltimore Roofing Tile Co.....	Bardley, J.....	Batterton, S. & Kiesel.....	Bel, George H. & Co.....	Bergner Bros.....	Bickelhaupt, G.....	Bischoff & Co., Fred F.....	Black Bell Co.....	Brand, James.....	Bridgeport Wood Finishing Co.....	Brizey, W. B.....	Brown, Charles & Co.....	Brooks, T. H. & Co.....	Brownville Maine State Co.....	Buckeye Foundry & Machine Co.....	Burditt & Williams.....	Cahoon, Paul E.....	Cahot, R.....	Central Expanded Metal Co.....	Chrome Steel Works.....	Cincinnati Corrugating Co.....	Clarg, Burnett & Co.....	Clark, G. S. & Co.....	Clay Shingle Co.....	Clinston Wire Cloth Co.....	Comstock, Wm. T.....	Correspondence School of Mechanics.....	Corrigan Metal Roofing Co.....	Curtiss, T. M.....	Cutler Mfg. Co.....	Danahy Iron Works.....	Devos & Co., F. W.....	Dexter Bros.....	Dixie Granite Co.....	Drapper, T. H.....	Electron Mfg. Co.....	Felt & Co., J. P.....	Ferguson's Sons.....	Fisher & Voley Organ.....	Flaker & Co., Robert U.....	Fiske, Homes & Co.....	Fleming & Co., J. Leland.....	Fleming Cement & Brick Plant Building & Construction Co.....	For a New Guard Co.....	French & Co., Samuel H.....	Frank, I. P.....	Frost & Adams.....	Globe Ventilator Co.....	Goetz Box Anchor Co.....	Grange Iron Works.....	Gorton & Lidgerwood Co.....	Graves Elevator Co.....	Gurney Heater Mfg. Co.....	Habershon & Son, L.....	Haines, Jones & Cadogan.....	Harian & Hollingsworth Co.....	Hayes, Geo.....	Heddy Printing Co.....	Hill, Geo. H. & Co.....	Hind, Thomas J.....	Hitchings & Co.....	Holmes, F. S.....	Horsen & Howson.....	Huyett & Smith Mfg. Co.....	Hydraulic-Press Brick Co.....	Indianapolis Terra-Cotta Co.....	Jackson Architectural Iron Works.....	Jackson, E. A. & Bro.....	Johnson & Co., Wm. H.....	Jordan, J. B. & Co.....	Jenkins Bros.....	Johns Mfg. Co., H. W.....	Johnson & Sons.....	Jones, T. W.....	Karr, C. P.....	Kearney, N. A.....	Keebler & Mattison Co.....	Kelly, N. J.....	Kidder, F. E.....	Kilbourne & Jacobs Mfg. Co.....	Lamb & Ritchie.....	Lane Bros.....	Lawrence Cement Co.....	Lord & Burnham Co.....	Ludlow Railway Wk & Co.....	Marey & Gardner.....	Marks, A. A.....	Mechanical Decorative Glass Co.....	Maurer & Son, Henry.....	McAlly Glass Company.....	Merchant & Co.....	Metallic Setting Co.....	Metallic Window Screen Mfg. Co.....	Miller, J. & Bro.....	Miller & Costin.....	Moore & Co., E. B.....	Moore & Wyman.....	Moran, Williams & Co.....	Mott Iron Works, J. L.....	Mutual Savings & Loan Co.....	National Lead Co.....	National Wood Mfg. Co.....	Nichols Asphalt Co.....	New England Fair Housing Co.....	N. J. Steel & Iron Co.....	New Jersey Wire Cloth Co.....	N. Y. Architectural Terra-Cotta Co.....	N. Y. Cast Marble Works.....	New York Metal Ceiling Co.....	Nightingale, S. C. & Childs.....	Nothrop, H. S.....	Northwestern Terra-Cotta Co.....	Norton Cement Co., F. O.....	Okonite Co. (Ld.).....	Ostrander & Co., W. B.....	Oils Bros. & Co.....	Paragon Construction Company.....	Park, J. H. & Co.....	Pascall Rolling Mill Co.....	Penn Elevator Engineering Co.....	Penn Iron Roofing & Corrugating Co.....	Pennarth Terra-Cotta Co.....	Phenix Iron Co.....	Pioneer Fireproof Construction Co.....	Pitt, W. B.....	Powell, M. J.....	Pray, Sons & Co., John H.....	Prescott, J. B. & Son.....	Randolph & Clowden.....	Harlan Hollow & Forme Brick Co.....	Samsom Cordage Works.....	Sheppard & Co., Isaac A.....	Smith & Anthony Stone Co.....	Smith & Sage Mfg. Co.....	Smith Co., H. B.....	Spaulding & Moss.....	Standard Elevator Co.....	Steubling Mfg. Co.....	Stewart Ceramic Co.....	Taylor Co., N. & G.....	Taylor, J. W.....	Thorn, J. C.....	Thorn Shingle & Ornament Co.....	Tiffany Glass & Decorating Co.....	Townsend Press Brick Co.....	Ticknor & Co.....	Troy Laundry Machinery Co.....	U. S. Tubular Bell Co.....	Vaile & Young.....	Walton Bros.....	Warren Chemical & Mfg. Co.....	Whitfield Machine Co.....	Wilks Refrigerator Co.....	Wilks Mfg. Co., S.....	Williams, John.....	Wilson, Jas. Q.....	Worthington, Harry H.....	Yale & Towne Mfg. Co.....

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th St.
NEW YORK CITY.

Designers and Manufacturers of...

MANTELS

OPEN FIREPLACES..

GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 65 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.

PRIZE MEDALLISTS.

EXHIBITION OF 1882, 1883, 1887, 1872, 1873, AND ONLY AWARD AND MEDAL FOR NOISELESS, SELF-COLLING STEEL SHUTTERS AT PHILADELPHIA, 1876; PARIS, 1878; AND MELBOURNE, 1881.

CLARK, BUNNETT & CO. (Limited)

Late **CLARK & COMPANY,**

ORIGINAL INVENTORS AND SOLE PATENTERS OF NOISELESS

Self-Colling, Revolving **STEEL SHUTTERS** Fire & Burglar Proof.
Also Improved Rolling Wood Shutters, and Clark's Patent Metallic Venetian Blinds.

The BEST in the Market. Send for Catalogues, etc., to
162 and 164 West 27th St. - New York.

ALSEN'S

PORTLAND CEMENT

(GERMAN.)

The Strongest, Finest Ground and Most Uniform
Cement Made in the World.

The Largest Works and Greatest Production.

U. S. OFFICE, 143 Liberty Street, NEW YORK.



300 Barrels Hot-Water Heater

**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

We invite Correspondence.
Send for Catalogues.

HEAD OFFICE: **GURNEY HEATER MANUFACTURING COMPANY,**

1 SELLING AGENCIES.

JOHNSON & Co., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHSEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

Endorsed by the leading
Architects and Engineers.

163 Franklin St., Cor.
Congress, Boston, Mass.



Curry Steam Boiler

JAS. G. WILSON, Patentee and
74 West 23d St., New York. Manufacturer,



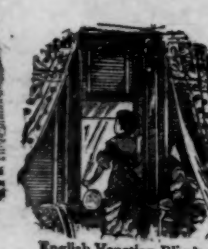
Rolling Steel Shutters.



Rolling Venetian Blinds.



Rolling Partitions.



English Venetian Blinds.

NJ. STEEL & IRON CO.
TRENTON, N.J.

IRON AND STEEL BEAMS

CHANNELS, ANGLES & TEES

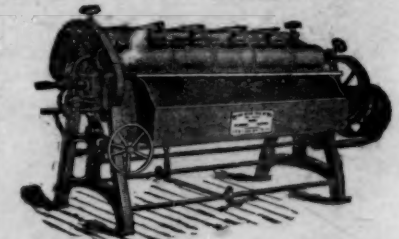
COOPER, HEWITT & CO.
NEW YORK.

TROY LAUNDRY MACHINERY CO.

[LIMITED.]

FACTORIES: { 648-650 Fulton St., Troy, N. Y.
306-406 Fifth Ave., Chicago, Ill.

SALESROOMS: { 15 Warren St., New York.
881-883 Mission St., San Francisco, Cal.



Our line the largest and most complete in the world.

Send for Illustrated Catalogue Z.

The Temporary Binder

Provided by us will keep your copies of the American Architect in PERFECTLY uninjured condition.

Price \$1.25 postpaid.

CONTINENTAL INSURANCE COMPANY,

OF NEW YORK CITY.

Extract from statement made Jan. 1, 1894.
CASH CAPITAL - \$1,000,000.00
RESERVES for insurance in force, etc. 3,856,875.95
NET SURPLUS - 1,576,506.38
POLICY HOLDERS' SURPLUS - 2,576,506.38
GROSS ASSETS - 6,433,171.23

SAFETY FUND POLICIES ISSUED.

F. C. MOORE, President. HENRY EVANS, Vice-President.
EDWARD LANNING, Secretary. CYRUS PECK, Treasurer.
WM. A. HOLMAN, Asst. Sec. R. J. TAYLOR, Man'gr Loss Dept.
46 Cedar Street, New York.

C. H. DUTCHER, Secretary Brooklyn Dept., Court and Montague Sts., Brooklyn, N.Y.; J. J. McDONALD, Gen'l Manager Western Dept.; GEO. E. KLINE, Asst. to Gen'l Manager, Rialto Building, Chicago, Ill.; W. S. DUVAL, Gen'l Manager Pacific Coast Dept.; F. C. BARKMAN, Asst'to Gen'l Manager, 321 Pine St., San Francisco, Cal.

RESPONSIBLE AGENTS WANTED.



DRAWING-OFFICE.

Drawings rendered in line or color with
reasonable despatch.

ADDRESS THE EDITORS OF THE AMERICAN ARCHITECT.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen. Agts.,

Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Mason's Materials.

Send for Pamphlet.

THE AMERICAN ARCHITECT AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. XLV.—No. 968.]

SATURDAY, JULY 14, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS.
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Ricker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE, JULY 20th.
Louis De Coppel Berg.
PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.

COOPER INSTITUTE.
E. A. Miller.

INSTITUTE OF ARTIST-ARTISANS.
140 West 23d Street.
John Ward Stimson.

METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.
S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Drexel.

UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

[Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.]

CONSTRUCTION.

BERG, LOUIS D'C. Two Vols., each \$5.00
"Safe Building."
New York (66 Fifth Ave.): Macmillan & Co.

CHANDLER, F. W. \$10.00
"Construction Details."
Boston (211 Tremont St.): Heliotype Printing Co.

CLARK, T. M. \$3.00
"Building Superintendence." Onts.
New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts. \$2.00 each.
Architectural Rendering in Pen and Ink.
Boston (211 Tremont St.).

WARE, WILLIAM R., PROFESSOR, \$5.00
"Modern Perspective."
New York (66 Fifth Ave.): Macmillan & Co.

STYLES.

GOTOH, J. A., and W. T. BROWN 6 Parts, \$48.00
Four Parts now ready
"Architecture of the Renaissance in England."
New York (743 Broadway) Charles Scribner's Sons.

WHITTIER MACHINE CO.,

ELEVATORS,

53 STATE STREET - - BOSTON.
93 LIBERTY STREET, NEW YORK.
526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD
For all kinds of
PASSENGER AND FREIGHT ELEVATOR SERVICE.

OTIS BROTHERS & CO.,
NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,
ELEVATOR AND MACHINE WORKS,
COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.

STEAM AND HYDRAULIC,
For Freight and Passenger use.

ELECTRIC ELEVATORS. THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,
For passenger and freight service.
Large experience. Many in use.
First cost moderate.

Running Expense much less than Hydraulic.
Also makers of low-speed Perret Electric Motors and Dynamos.

General office and factory, Springfield, Mass.
NEW YORK OFFICE, 126 Liberty Street.
BOSTON OFFICE, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES,
For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate. References,
Principal Architects and Decorators of New York.

AESCHLIMANN & PELLARIN,
37 CLINTON PLACE,
Between Broadway and University Place, New York.

SANITARY CONDITION OF
DWELLINGS examined by T. H. DUGGAN,
Plumber, 141 DARTMOUTH STREET, BOSTON.
Fine Plumbing Materials, First-class Workmanship.
Telephone call, Tremont No. 165.

TIFFANY GLASS & DECORATING COMPANY.

FURNISHERS OF GLASS WORKERS DOMESTIC & ECCLESIASTICAL
DECORATIONS. GD MEMORIALS
333 TO 341 FOURTH AVENUE NEW YORK.

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHERE & Co.)

Importers and Workers of
MARBLE, ONYX AND GRANITE,

425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

F. O. NORTON CEMENT CO.,

Manufacturer of HYDRAULIC CEMENT.
Certificates of Tests and Reports on actual use furnished on application. 92 BROADWAY, N. Y.

STANDARD ELEVATOR CO.,

HIGHEST GRADE

PASSENGER } ELEVATORS.
AND
FREIGHT }

OFFICE AND WORKS,

15th Street and Ashland Ave.,
Chicago, Ill.

PENN ELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.
PASSENGER AND FREIGHT ELEVATORS,
every description.
See our new Electric and Hydraulic before purchasing.
Works, Bloomsburg, Pa.
Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.
GENERAL OFFICE, PALMER, MASS.

We contract to perform all labor and furnish all material of the different classes required to build complete
CHURCHES, HOTELS, MILLS, PUBLIC
BUILDINGS AND RESIDENCES.
Also for the construction of
RAILROADS, DAMS AND BRIDGES.

We solicit correspondence with those wishing to place the construction of any proposed new work under ONE CONTRACT, which shall include all branches connected with the work. To such parties we will furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO.,

STAINED GLASS & DECORATIVE WORK.

Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.

Sole Agents for
CLAYTON & BELL, GLASS STAINERS, LONDON.
61 Washington Square, South, New York, N. Y.

IN paint the best is the cheapest.—Don't be misled by trying what is said to be "just as good," but when you paint insist upon having a genuine brand of Strictly Pure White Lead

It costs no more per gallon than cheap paints, and lasts many times as long.

Look out for the brands of White Lead offered you; any of the following are sure:

- "ANCHOR" (Cincinnati).
- "ARMSTRONG & McKELVY" (Pittsburgh).
- "ATLANTIC" (New York).
- "BEYMER-BAUMAN" (Pittsburgh).
- "BRADLEY" (New York).
- "BROOKLYN" (New York).
- "COLLIER" (St. Louis).
- "CORNELL" (Buffalo).
- "DAVIS-CHAMBERS" (Pittsburgh).
- "ECKSTEIN" (Cincinnati).
- "FAHNESTOCK" (Pittsburgh).
- "JEWETT" (New York).
- "KENTUCKY" (Louisville).
- "JOHN T. LEWIS & BROS. CO." (Phila.).
- "MORLEY" (Cleveland).
- "MISSOURI" (St. Louis).
- "RED SEAL" (St. Louis).
- "SALEM" (Salem, Mass.).
- "SHIPMAN" (Chicago).
- "SOUTHERN" (St. Louis and Chicago).
- "ULSTER" (New York).
- "UNION" (New York).

FOR COLORS.—National Lead Co.'s Pure White Lead Tinting Colors.

These colors are sold in one-pound cans, each can being sufficient to tint 25 pounds of Strictly Pure White Lead the desired shade; they are in no sense ready-mixed paints, but a combination of perfectly pure colors in the handiest form to tint Strictly Pure White Lead.

A good many thousand dollars have been saved property-owners by having our book on painting and color-card. Send us a postal card and get both free.

NATIONAL LEAD CO., New York.



**NATIONAL
Fine Art Foundry,**
218 East 25th Street, New York.
Artists' Models cast in Standard Bronze
Architects' Designs Executed.
Artistic and Enduring Monuments
in Granite and Bronze.
No Catalogues.
MAURICE J. POWER.

**GRAVES
ELEVATORS**
SAFETY, SPEED AND
ECONOMY COMBINED
NEW YORK
92 & 94 LIBERTY ST.
BOSTON
53 STATE ST.
DETROIT
HODGES BUILDING
ATLANTA, GA.
INMAN BUILDING
**GRAVES
ELEVATOR
CO.**
ROCHESTER, N.Y.
SEND FOR CATALOGUE.

RITCHIE'S PATENT IMPROVED CORRUGATED Expanding Conductor.

— ALSO —

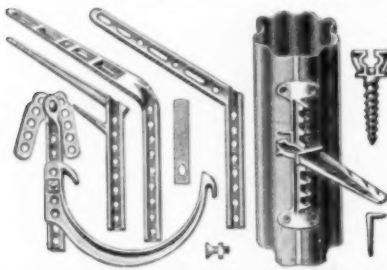
Stamped Corrugated Elbows & Shoes.



A No. 3 SHOE.

In these goods the public find, for the first time satisfactory expanding Elbows and Shoes, perfect in curve and free from unreliable and unsightly soldered joints.

LAMB & RITCHIE,
Cambridgeport, - - Mass.



THE BEST EAVE TROUGH HANGERS AND PIPE FASTENERS ON EARTH.

Also BERGER'S LONG EAVE GUTTERS, PIPE HOOKS AND FASTENERS of every description, RIDGING CRISTINGS, FINIALS, REGISTERS AND VENTILATORS, and samples and catalogues free.

BERGER BROS.

227 Arch Street, Philadelphia, Pa.

**PORCELAIN LINED
REFRIGERATORS**
and Cooling Rooms under the
Wickes System.
Mechanical Refrigeration under
the Westinghouse System.
WICKES REFRIGERATOR COMPANY,
860 Broadway, N. Y.



Unequaled for all purposes
for which Portland Cement
is used. Tests and Testimon-
ials of Engineers, and "How
to Use Portland Cement,"
sent free on application.

BUCKEYE PORTLAND CEMENT CO.,
BELLEFONTAINE, OHIO

THE "GORTON" BOILER, For STEAM and HOT-WATER HEATING.

ECONOMICAL IN FUEL, AUTOMATIC, SELF-FEEDING.

A STEEL SECTIONAL TUBULAR BOILER.

Correspondence solicited from Architects and those interested in
Heating Large or Small Buildings.

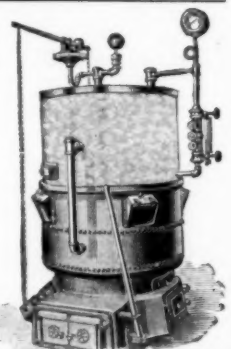
Our New Book on MODERN HOUSE HEATING furnished on application.

GORTON & LIDGERWOOD CO.,

96 LIBERTY STREET, NEW YORK.

197 to 203 Congress St., BOSTON.

34 and 36 W. Monroe St., CHICAGO



BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
Foundation:				
Dimension.....	5 00 @ 75	5 00 @ 75	30 @	5 00
Block.....	4 60 @ 75	4 60 @ 75	30 @	37 @ 50
Rubble.....	1 25 @ 1 50	1 25 @ 1 50	8 50 @	1 45 @ 2 50
Bluestone: \$ sq. ft.)				
Sidewalk.....	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in. th. 10 @ 25
Planned.....	50 @ 6 00	75 @ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow.....	80 @ 80	80 @ 90		95 @ 1 05
Kibbe.....	90 @ 90	90 @ 1 10		1 05 @ 1 25
Brown (Connecticut).....	1 00 @ 95	1 25 @ 1 45	1 50 @ 50	85 @ 95
Amherst Ohio.....	90 @ 95	90 @ 1 00	45 @ 50	85 @ 95
Berea.....	75 @ 1 00	85 @ 90	45 @ 55	85 @ 95
Berlin.....	75 @ 1 00	80 @ 90	55 @ 65	85 @ 95
Bellefonte.....	80 @ 1 25	25 @ 1 35	@ 1 25	1 00 @ 1 10
New Brunswick (Dorchester).....	@ 1 00	75 @ 90		1 05 @ 1 15
Caen.....	@ 1 05	@ 2 00		1 25 @ 1 35
Carlisle, English.....	@ 1 05	@ 1 05		95 @ 1 05
Corse Hill (Scotch).....	@ 1 05	@ 1 05		95 @ 1 05
Marble: (\$ cu. ft.)				
Lee, Mass.....	@	1 75 @ 2 50	Not Sold.	2 00 @ 2 50
Rutland, white and blue.....	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls.....	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black.....	@	@	Not Sold.	4 00 @ 4 50
Italian, blue-veined.....	@	@	@ 4 40	2 50 @ 2 75
" Sienna.....	@	@	Not Sold.	@ 5 00
Tennessee, red.....	@	@	@ 4 40	4 00 @ 6 00
" Knoxville.....	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue.....	@	@	Not Sold.	2 00 @ 3 00
Vermont, white.....	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (\$ square).				
" green.....	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" unfading.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" purple.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" red.....	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
" black, Lehigh.....	4 25 @ 4 75	@	6 25 @ 6 80	25 @ 4 00
" " Chapmans.....	6 00 @ 8 50	6 00 @ 8 50	7 30 @ 8 00	00 @ 6 65
" Unfading black, Brownville, Me. " Monson.....	5 50 @ 8 00	5 50 @ 8 00	6 50 @ 9 50	6 50 @ 8 00
Tiles, Am..... \$ M.	@	@	Not Sold.	5 50 @ 8 00
N. Peach Bottom, warranted unfading. Fire Clay Roofing Tile on cars at factory	8 00 @	8 00 @	8 00 @	6 00 @ 6 75
PAINTS. (In Oil \$ lb.)				
White lead, Am.....	7 @ 7 1/2	6 @ 6 1/2	7 @ 7 1/2	@ 7 1/2
" zinc.....	5 @ 8 1/2	@ 8	5 @ 10 1/2	@ 7
Red lead, Am.....	6 1/2 @ 7	6 @ 6 1/2	6 1/2 @ 7	@ 7 1/2
" Venetian.....	6 @ 10 1/2	7 @ 12	14 @ 2 1/2	dry Eng. @ 7
" Vermillion.....	65 @ 70	60 @ 65 dry	65 @ 68	Eng. @ 76
" Indian, Eng.....	12 @ 20	12 @ 20	12 @ 20	dry Am. @ 14
Yellow Ochre.....	6 @ 15	7 @ 12	3 @ 15	@ 18
" Chrome.....	12 @ 20	18 @ 25	15 @ 25	@ 21
Green (chrome).....	8 @ 13	8 @ 20	8 @ 20	" 15 @ 20
Green, Paris.....	25 @ 40	25 @ 30	18 @ 35	@ 12
Black, lamp.....	15 @ 25	15 @ 25	8 @ 30	10 @ 24
Blue, ultramarine.....	12 @ 18	18 @ 20	12 @ 35	@ 60
Oil, linseed, (raw).....	35 @ 62	56 @ 58	60 @ 65	@ 63
" " boiled.....	58 @ 65	59 @ 61	60 @ 63	@ 44
Turpentine.....	36 @ 37	@ 36	40 @ 42	125 @ 3 00
Varnish, coach.....	@	1 50 @ 6 00	1 25 @ 2 00	150 @ 3 00
Shellac.....	@	2 50 @ 3 00	2 25 @ 4 00	2 @ 2 1/2
Putty.....	2 @ 4	2 @ 4	2 @ 2 1/2	@ 1
Whiting.....	75 @ 1 00	1 @ 1 1/2	1 @ 1 1/2	@ 2
Paris white, (Eng.).....	1 30 @ 2 00	1 1/2 @ 2	1 1/2 @ 2	@ 7 1/2
Litharge, Am.....	5 1/2 @ 6	6 @ 6 1/2	6 @ 7	4 @ 14
Sienna (burnt).....	14 @ 20	14 @ 20	4 @ 16	2 @ 13
Umber.....	14 @ 20	14 @ 20	2 @ 10	@ 2 25
Hardware.				
Nails: (Per Cask.) Spikes, (wrought.)	@ 2 85	@ 2 80	2 35 @ 3 50	per keg @ 2 25
10d. common.....	@ 2 60	@ 2 60	@ 1 70	@ 2 30
Shingle.....	@ 3 35	@ 3 10	@ 2 10	@ 2 60
Lath.....	@ 4 85	@	@ 2 80	3 60 @ 4 75
(Finishing nails according to size.)	@	@	Add .60 to \$1.90	per lb. 4 @ 6
(For casing nails add 75 c. per keg.)	@	@	".40 to .90	Add per cask 2 90 (all kinds.)

FIDELITY FRANCE.

Pat. Apr. 20, 1890.

ELEVATED BOILER, Plain or Hot Air, Right or Left Hand, with or without Hot Closets. Just the thing for Flats and Small Houses.

Send for circulars.

Isaac A. Sheppard & Co.

PHILADELPHIA or BALTIMORE.

WM. KERRY, Agt. 4 Peek Slip, New York.



NEW ENGLAND FELT ROOFING WORKS.

12 MILK ST., BOSTON.

Originators of Felt Roofing in New England.

Inventors and only Manufacturers of the Celebrated

"BEEHIVE BRAND."



ESTABLISHED 1852.
Incorporated 1891.
Capital \$50,000.

LEVI L. WILLIAMS, Pres.
EPH. C. DAVIS, Treas.

FOR INFORMATION ABOUT

U. S. MAIL CHUTES

WHICH ARE

A necessity in Office Buildings and Hotels, write to the sole makers,

THE CUTLER MFG. CO., ROCHESTER, N. Y. PATENTED. AUTHORIZED.

Galvanized Steel Shingles

DIFFERENT SIZES AND DESIGNS.

SAMPLES FREE.

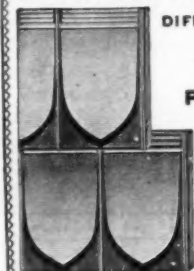
PRICES LOW.

CORTRIGHT

METAL ROOFING CO.

Broad & Hamilton Sts. Philada., Pa.

134 Van Buren Street, Chicago, Ills.



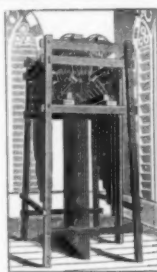
TUBULAR CHIME BELLS

Harrington Patents.

Established in England. Introduced here.

Lighter in Weight
Sweeter in Tone
Cheaper in Price
Than the ordinary bell
Catalogue with full description.

U. S. Tubular Bell Co., Methuen, Mass.



BURDITT & WILLIAMS,

Representatives of
BUILDERS' HARDWARE.

Refer to the prominent Architects of Boston, New York and Washington, as well as to many of the Finest Public Buildings and Residences in all parts of the United States.

Branch Office, 20 Dock Square, WASHINGTON, D. C. BOSTON, MASS.

80-Page Illustrated Catalogue of over 250 Designs of Superior

WEATHER VANES,
TOWER ORNAMENTS,
CHURCH CROSSES,
FINIALS, Etc., Etc.

Mailed to any address for 2-cent stamp—half the postage.

T. W. JONES, Manufacturer, 170-172 FRONT ST., New York.

Conservatories, GREENHOUSES, VINERIES,

Shipped to any part of the country, and erected complete, ready for use.

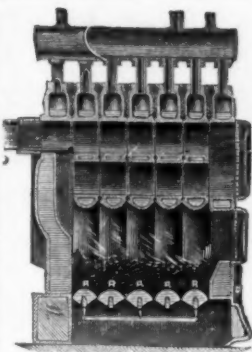
Plans embrace the latest improvements.

Unequalled facilities for manufacturing. Thirty-five years' experience. Catalogue sent on application.

Address, stating requirements,

LORD & BURNHAM COMPANY,
IRVINGTON-ON-HUDSON, N. Y.

PAUL E. CABARET (Successor to SPADONE & CABARET),
BRONZE AND BRASS WORK OF ALL KINDS
For Banks, Churches, Mausoleums, etc. Doors and Gates a specialty.
Send for Catalogue. Herring Building, Junction of 9th Ave. & 14th Street, New York.



Mercer Boiler.

The H. B. SMITH CO., MANUFACTURERS OF HEATING APPARATUS Steam and Water

For Public Buildings and Private Residences.

SPECIALTIES:

MERCER'S Patent Improved Sectional Boilers.
MILLS'S Safety Sectional Boilers.
GOLD'S Improved Sectional Boilers.
REED'S Improved Cast-Iron Radiators,
"THE UNION" Hot-Water Radiators.
BRECKENRIDGE'S Patent Automatic Air Valves.
GOLD'S Indirect Pin Radiators.

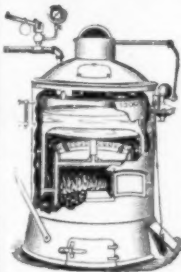
Office & Warerooms, 137 Center Street, New York.

Foundry, Westfield, Mass. Catalogues sent on application.

The "Peerless" STEAM and HOT WATER HEATER.

The Simplest, Cheapest and Best.

MECHANICAL DEPARTMENT, PHILADELPHIA, PA.
The Peerless Boiler that I am using is giving good satisfaction.



Agents Wanted.

SHENANDOAH, PA., January 20, 1887.
Your patent steam heating boiler, placed in my house last summer, has proved a Wonderful Success. I am very much pleased with its manner of working, requiring but little trouble and keeping up a uniform heat through the day, and can be regulated so as to give off sufficient heat during the night. I consider it an economizer in fuel, having heated eleven rooms with one ton of coal per month. It is also perfectly safe.



HON. JOHN WANAMAKER.

For Catalogues, Testimonials, Terms, &c., address
GEO. H. BELL & CO., 41 Dey St., New York City, N. Y.
Sole Agents for the United States.

PROCURE THE BEST by specifying American Boiler Company HEATING AND VENTILATING APPARATUS.

FOR STEAM—"AMERICAN," "FLORIDA," "MODERN," "SOLEIL."
FOR WATER—"ADVANCE," "BOLTON," "PERFECT," "LITTLE
GIANT," "SPENCE," "TROPIC."

18 Styles. 174 Sizes.

CAPACITY { STEAM, 100 to 4,200 Square Feet.
WATER, 75 to 7,500 " "

Write for Catalogues and Particulars.

American Boiler Company

"SOLEIL" BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
195 Ft. Hill Sq. 94 Center St. 84 Lake St. 127 6th St.

BUILDING MATERIALS.

Reported for the American Architect and Building News.

	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
LUMBER.—P. M.				
Boards: (Ordinary dimensions.)				
Pine, 1st quality, clear	65 00 @ 75 00	55 00 @ 70 00	42 00 @ 50 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	27 00 @ 38 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	20 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	25 00 @ 35 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock	ea 13 1/2 @ 14	10 00 @ 15 00	12 00 @ 12 00	11 25 @ 13 50
Yellow pine	20 00 @ 40 00	23 00 @ 35 00	21 00 @ 34 00	14 00 @ 29 00
Cypress	28 00 @ 40 00	28 00 @ 40 00	18 00 @ 34 00	18 00 @ 35 00
Clapboards:				
Pine	38 00 @ 55 00	38 00 @ 55 00	19 00 @ 22 50	14 00 @ 25 00
Spruce	23 00 @ 38 00	23 00 @ 38 00	Not sold.	Not sold.
Framing Timber:				
Pine	14 00 @ 18 00	14 00 @ 17 00	12 00 @ 17 50	25 00 @ 37 30
Spruce	12 00 @ 16 00	13 00 @ 15 00	Not sold.	16 00 @ 18
Hemlock	18 00 @ 21 00	20 00 @ 35 00	10 00 @ 13 00	13 00 @ 17
Yellow pine			24 00 @ 34 00	22 00 @ 28
Laths:				
Pine	Slab	2 25 @ 2 50	2 25 @ 2 40	2 75 @ 3
Spruce	1 60 @ 1 70	2 00 @ 2 50	Not sold.	2 30 @ 3 00
Shingles:				
Pine, shaved	5 00 @ 6 00	4 50 @ 4 50	Not sold.	
Pine, sawed	4 00 @ 5 00	1 50 @ 2 00	2 25 @ 2 50	
Spruce, sawed	1 50 @ 2 00	3 25 @ 3 75	Not sold.	
Redwood	1 40 @ 1 60	2 00 @ 3 75	6 00 @ 7 50	30 00 @ 35 @ 40
Cedar split	2 00 @ 3 75	2 00 @ 2 75	Not sold.	24 00 @ 28
Cedar sawed	18 00 @ 20 00	5 00 @ 6 00	2 60 @ 2 75	30 00 @ 35 @ 40
Cypress, Split			3 50 @ 4 00	11 00 @ 14 00
Miscellaneous:				
Pine	4 1/2 @ 5 1/2	Pine 6c. P. ft.	Cut to order.	
Fence pickets, Common	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 22 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts.)		25 @ 50	9 @ 21	40 @ 125
Chestnut posts		25 @ 50	Not sold.	20 @ 30
Finishing Woods: P. M. (First)				
Ash	80 00 @ 120 00	45 00 @ 60 00	14 00 @ 30 00	42 50 @ 47 50
Cherry	40 00 @ 60 00	90 00 @ 120 00	35 00 @ 50 00	100 00 @ 120 00
Butternut		60 00 @ 70 00	17 00 @ 35 00	70 00 @ 80 00
Hard-pine floors (rift)		42 00 @ 50 00		
Mahogany, Baywood [Mexican]	120 00 @ 150 00	150 00 @ 170 00	110 00 @ 170 00	150 00 @ 250 00
St. Domingo	120 00 @ 350 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Maple	45 00 @ 50 00	45 00 @ 50 00	12 00 @ 20 00	25 00 @ 55 00
Oak, red	40 00 @ 70 00	40 00 @ 50 00	17 00 @ 27 00	45 00 @ 55 00
" white	70 00 @ 90 00	45 00 @ 55 00	16 00 @ 28 00	60 00 @ 75 00
" quartered		65 00 @ 75 00	34 00 @ 40 00	57 50 @ 65 00
Sycamore quartered		50 00 @ 65 00	25 00 @ 28 00	60 00 @ 75 00
Pine, clear	65 00 @ 70 00	50 00 @ 75 00	33 00 @ 50 00	60 00 @ 75 00
Redwood	60 00 @ 70 00	50 00 @ 70 00	40 00 @ 45 00	
Rosewood			per M. 600 00	
Spruce floors clear, (kiln-dried)		32 00 @ 35 00		
Walnut, black	125 00 @ 150 00	85 00 @ 120 00	40 00 @ 75 00	50 00 @ 170 00
Whitewood	45 00 @ 50 00	35 00 @ 45 00	14 00 @ 30 00	25 00 @ 40 00
Yellow pine	45 00 @ 50 00	40 00 @ 42 00	31 00 @ 34 00	40 00 @ 45 00

CLINTON WIRE-CLOTH CO.,

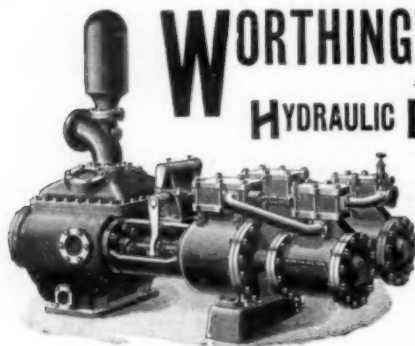
Sole Proprietors and Manufacturers of

WIRE LATH *DOUBLE TWIST WARP STIFFENED (Iron furred) CLINTON CORRUGATED*

Plain, Japanned or Galvanized.

The Most Perfect and Economic System of FIREPROOF Construction.

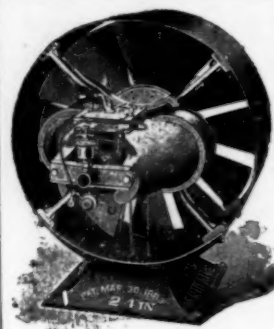
SEND FOR CIRCULAR.

BOSTON, NEW YORK, CHICAGO, FACTORY,
199 Washington St. 76 Beekman St. 137 Lake St. CLINTON, MASS.**WORTHINGTON STEAM PUMPS**

ARE THE STANDARD FOR

HYDRAULIC ELEVATOR AND HOUSE SERVICE.

Send for New Illustrated Catalogue.

Henry R. Worthington,NEW YORK, 86 & 88 Liberty St.
BOSTON, 70 Kilby St.
PHILADELPHIA, 607 Arch St.
CLEVELAND, 24 South Water St.
CHICAGO, 185 to 189 Van Buren St.
ST. LOUIS, Eighth & St. Charles Sts.**A BOON TO ARCHITECTS AND BUILDERS.
THE MORSE PATENT WALL TIE.**Made from 3-16 in. galvanized steel wire; thickness where ends cross 1-4 in.
Secures Hollow Walls, Brick Facings, Terra Cotta, Etc.
Also made from 5-32 and 1-8 wire.New York Office,
62 Reade St.**CHEAP, STRONG, RELIABLE.**Adopted by more than 400 Architects and Builders the past three seasons.
Write for samples, circulars, etc.**J. B. PRESCOTT & SON, Sole Mfrs., Webster, Mass.****KEEP COOL**
BY USING
**THE SMITH
VENTILATING
FAN.****KEEP WARM**
BY USING
**THE SMITH
HOT BLAST
APPARATUS.**

Both Manufactured by

THE HUYETT & SMITH MFG. COMPANY,Heating and Ventilating Engineers,
DETROIT, MICH.

Write for Catalogue, mentioning this paper.

**Draughting
Instruments.**And Supplies for Architects,
Engineers, and
Draughtsmen.**FROST & ADAMS,**37 Cornhill,
Boston, Mass.

Send for Our New Catalogue.

**BUILDING MATERIALS.****BRICK.—P. M.**
Common: Cargo float.Pale..... 1 25 @ 2 00
Jersey..... 3 75 @ 4 25
Long Island..... @
Up River..... 4 00 @ 5 00
Haverstraw Bay 2d..... 4 50 @ 4 75
" 1st..... 5 00 @ 5 25
Hollow..... @ 13 00Fronts:
Croton, Brown..... 9 00 @ 12 00
" dark..... 10 00 @ 13 00
" red..... 10 00 @ 13 00Chicago pressed (Anderson).....
" Moulded.....
Baltimore..... 37 00 @ 41 00
Philadelphia..... 22 00 @ 23 00
Trenton..... @ 19 00
Milwaukee.....Moulded:
Glens Falls Red Pressed..... @ 37 00
" " Buff..... @ 30 00
" " Moulded Red & Buff..... 45 00 @ 70 00Enamelled: Imp.
Enamelled (edge)..... 85 00 @ 100 00
Enamelled (edge and end)..... 90 00 @ 115 00**CEMENT, LIME, etc.—(P. cask.)**Rosendale Cement..... 85 @ 1 10
Louisville.....
Utica, Akron, Buffalo, Milwaukee..... Not sold.
Portland, English (Gibbs)..... 2 25 @ 2 50
" (K. B. & S.)..... 2 50 @ 3 00
" Black Cross..... 2 25 @ 2 50
" (Burnham)..... 2 50 @ 2 50
" (White's)..... 2 65 @ 3 00
" French (Lafarge)..... 3 60 @ 3 75
" German (Alsen)..... 2 90 @ 3 25
" (Fewer)..... 2 25 @ 2 40
" (Vorwöhler)..... 2 50 @ 2 90
" (Lagerdofer)..... 2 60 @ 2 90
" (Dyckerhoff)..... 2 50 @ 3 00
" (Hanover)..... 2 35 @ 2 85
" Stettin (Anchor)..... 2 15 @ 2 25
" American (Saylor's)..... 2 75 @ 3 00
Roman..... 4 50 @ 5 30
Keene's coarse..... 5 00 @ 5 50
" superfine.....**Lime:**Lime of Tell..... 3 50 @ 4 00
Hydraulic Lime..... @ 1 45
Chicago Lime in bulk..... St. John 90
Wisconsin Lime..... @ 85
Rockland and Rockport, (Com.)..... @ 95
Rockland and Rockport, finish..... @ 1 00
Kelley Island Lime, finish..... @
State, com. cargo rates (nom.)..... @ 80
State, finishing..... 1 05 @ 1 10
Plaster of Paris (calcined)..... 1 40 @ 1 50
" (casting)..... @ 1 60
Hair (Cattle) & bush..... 18 @ 21
" (Goat)..... 21 @ 25
Sand, P. load..... 1 00 @ 1 25**STONE.—(P. cubic foot, rough.)**Granite: (Maine)
Limestone:
Bedford..... 45 @ 1 25
Joliet..... 1 00
Lemont.....
Serpentine.....

New York.

Boston.

Chicago.

Philadelphia.

(Wholesale

Prices.) (Prices

to Builders and

Contractors.)

1 25 @ 2 00

3 75 @ 4 25

Domestic Com.

Sg. Hard @ 9 00

3 75 @ 4 25

@

8 50 @ 9 50

@ 7 00

4 00 @ 5 00

4 50 @ 4 75

Domestic Face

Salmon @ 5 00

4 50 @ 4 75

5 00 @ 5 25

18 00 @ 25 00

Sg. " @ 9 00

5 00 @ 5 25

@ 13 00

Philadelphia)

Light Stretchers

9 00 @ 12 00

10 00 @ 13 00

35 00 @ 40 00

@ 10 00

10 00 @ 13 00

50 00 @ 80 00

Phila. mould

Medium " @ 12 00

Enamelled B'k.

Enam. (edge)

15 00 @ 27 00

Red " @ 13 00

37 00 @ 41 00

22 00 @ 23 00

95 00 @ 105 00

Dark " @ 13 00

@ 19 00

115 00 @ 130 00

Domestic.

Best Paving @ 14 00

Enam. (edge)

Enam. (edge and end)

25 00 @ 30 00

Second " @ 13 00

85 00 @ 100 00

90 00 @ 115 00

30 @ 35

Third " @ 12 00

90 00 @ 115 00

110 00 @ 115 00

55 00 @ 65 00

@ 100 00

85 @ 1 10

1 15 @ 1 25

Not sold.

Dom. " @ 65

Not sold.

Brooks, S. & Co.

1 05 @ 1 15

82

2 40 @ 2 75

2 40 @ 2 75

1 00 @ 1 10

BS&Co 2 75 @ 3 00

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 10

2 85 @ 3 25

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 85 @ 3 15

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 3 00

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 85 @ 3 15

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 25

2 75 @ 2 85

CATALOGUE
FOR 1894 OF
Architectural Books.

SEND FOR CLEARANCE CIRCULAR.

WM. T. COMSTOCK, Pub., 23 Warren St., N. Y.

Heliotype Printing Co.,

211 Tremont Street, Boston.

ESTABLISHED 1872.

- **PHOTO-LITHOGRAPH.**
- **PHOTO-COLOR-LITHOGRAPH.**
- **PHOTO-GELATINE.**
- **PHOTO-GRAVURE.**
- **PHOTO-ENGRAVING.**

COPIES OF ARCHITECTURAL,
MECHANICAL AND OTHER
DRAWINGS, MAPS, PLANS, ETC.,
PORTRAITS, VIEWS AND ALL
BOOK ILLUSTRATIONS.**Heliotype Printing Co.**

CABOT'S

CREOSOTE

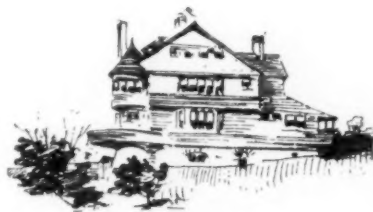
SHINGLE

STAINS



Loring & Phipps Arch'ts Boston

Don't specify paint for shingles; it isn't artistic. Don't specify a Stain that will turn black in a few years, because it looks dirty and you have to paint it over to change the color. Specify a stain that will hold its color and grow old gracefully—like Cabot's, which was the first shingle stain ever made, and is now, as always, first in durability, first in economy, and first in favor with those who have used it. *Every gallon guaranteed.*

Summer Cottage
Trowbridge & Phipps Arch'ts

Large or small wood samples, circulars and water-color reproductions of color schemes, sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

Agents at all Central Points. **70 Kilby St., BOSTON, MASS.**



Offices of the Mutual Life Association of Australia, Sydney, N. S. W.



New York Life Insurance Building, Omaha, Neb.



Opera-House Building, Chicago, Ill.

OFFICE BUILDINGS.

OKONITE INSULATED ELECTRIC LIGHT WIRES.



TRADE MARK.
WILLARD L. CANDEE,
H. DURANT CHEEVER,
GEO. T. MANSON, Gen'l Supt.
W. H. HODGINS, Sec'y.

The Okonite Wire is pronounced by Architects to be a **SAFE, DURABLE** and **EASILY ADJUSTED WIRE**, for the **INSIDE WIRING** of **PUBLIC** and **PRIVATE BUILDINGS**.

AWARDED A GOLD MEDAL AT THE PARIS EXPOSITION.

BRANCHES: Boston, Philadelphia, Chicago, Omaha, Cincinnati, Minneapolis, San Francisco, Louisville, St. Louis, Kansas City, South America, London.

THE OKONITE COMPANY, L'T'D,
13 Park Row, New York.

Send for Catalogue and Prices.

PASSENGER
AND
FREIGHT
ELEVATORS

Morse, Williams & Co., Electric and Hydraulic High Speed Passenger Elevators.

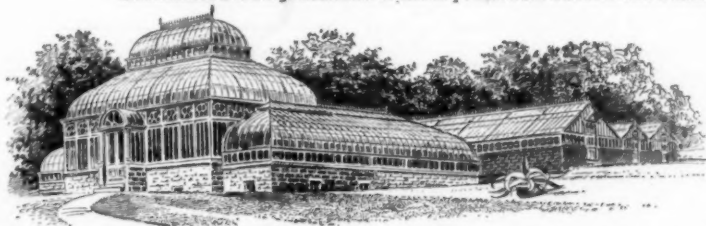
Steam, Belt and Hand Power Freight Elevators.
1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.
19 Pearl St., Boston. 82 Church St., New Haven.
714 Omaha Building, Chicago. 1116 E. St. N. W., Washington, D. C.

Decorative
Glass and
Sand Blast
Work.

THE MATTHEWS DECORATIVE GLASS CO.
MANUFACTURERS OF
ORNAMENTAL GLASS in Sheets or from Special Design
By the **SAND-BLAST** and other Patented processes.
CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,
Gold and Silver Embossed, and Transparent Glass Signs. Marbleized Glass
for Ceilings. Estimates promptly furnished on application.
328-330 E. 26th Street, New York City.

JOHN WILLIAMS, 544 to 556 West 27th Street, New York.
WROUGHT IRON AND BRASS WORK TO SPECIAL DESIGNS ONLY.
REFERENCES: Tiffany & Co., N. Y.; Cottier & Co., N. Y.; L. Marcotte & Co., N. Y.; McKim, Mead & White, N. Y.; Babb, Cook & Willard, N. Y.; Bruce Price, N. Y.; R. M. Hunt, N. Y.; Bailey, Banks & Biddle, Phila.; Frank Hill Smith, Boston.; A. H. Davenport, Boston.

HITCHINGS & CO., Established 50 years.
HORTICULTURAL ARCHITECTS AND BUILDERS
and largest Manufacturers of
GREENHOUSE HEATING AND VENTILATING APPARATUS.



Conservatories, Greenhouses, Palm Houses, etc., erected complete with our patent Iron Frame Construction. Plans and Estimates of cost and illustrated catalogues sent on application.
233 MERCER STREET, N. Y.

THE METALLIC WINDOW SCREEN MFG. CO.,

Successors to F. O. Snow & Co.,

Patent Metallic Sliding Window Screens,

Wood Screens and Screen Doors,
Window Shades, Awnings and Weather
Strips.

[SPECIALTY—FINE WORK.]

465 Washington St., Boston, Mass.



The Great CHURCH LIGHT

Frink's Patent Reflectors
for Gas, Oil, or Electric, give
the most powerful, softest,
cheapest, and best light known
for Churches, Stores, Banks, The-
atres, Depots, etc. New and el-
egant designs. Send size of room.
Get circular and estimate. A liberal
discount to churches & the trade.
Don't be deceived by cheap imitations.
I. P. FRINK, 601 Pearl St., N. Y.

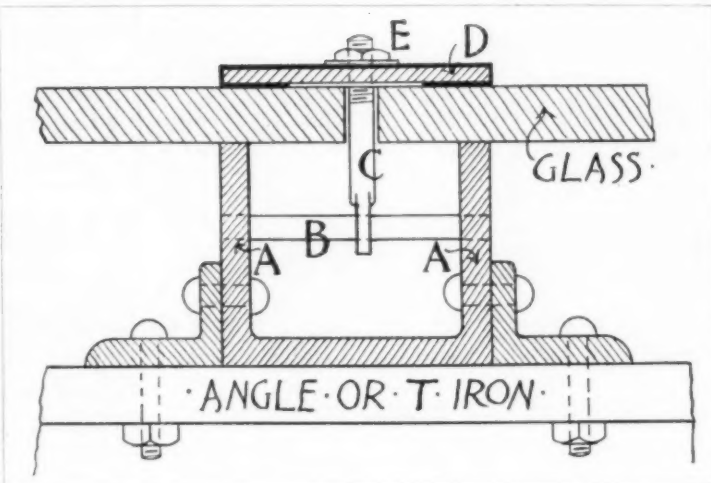
PARADIGM SKYLIGHTS

Highest Award
CHICAGO, 1893.

Description.

The astragal or channel bar is made of rolled steel, varying in width from one to two inches, depending on the distance between the roof purlins to which said astragals are bolted by means of angles, as shown in sketch.

About every fifteen inches apart, one quarter inch square holes are made in the sides of the steel skylight bar into which is secured the cross bolt "B" and eye bolt "C." These bolts secure the glass in place by means of cap "D" and the



Highest Award
CHICAGO, 1893.

Description.

nut "E." This cap can be made of a bent piece of sheet copper or other metal, or narrow pieces of flat iron covered with lead, like sketch.

The cross bars, which can be made of copper or other sheet metal, are fitted into slots cut in the sides of the steel channel bars 1 1/2 inches long by 1/2 inch deep, and they are made the exact width of the glass, and lap over the channel bar so that all condensation, water, etc., finds its way into the main channel bar.

Orders for over 100,000 square feet have been booked.

PARADIGM CONSTRUCTION COMPANY,

Caution Infringements will be
Vigorously Prosecuted

41 Pine Street, New York.

SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.

Slate, Copper, Tin and Gravel Roofing.

Nos. 20 and 22 EAST STREET, BOSTON.

Order Box at Master Builders Association,
164 Devonshire Street.Special attention given to Repairs
of all kinds.

Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs, acknowledged to be the strongest method in use, and has been applied to many of the best constructed and largest buildings in this country.

Contracts made for Work wherever desired.

ASPHALT ROOFING AND PAVING MATERIALS.

WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.

Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO. 81 & 83 Fulton Street, NEW YORK, U. S. A.

Send
for
Samples.

If you SPECIFY

SAMSON SPOT CORD

You can tell at a glance that no other cord is substituted. It is warranted to be of pure Cotton, smooth finish and perfect braid.

Samson Cordage Works, Boston, Mass.



FLYING ASHES,

from fireplaces having ashpits, entirely stopped by the Jackson Ashtrap.

Send for Catalogue B.

EDWIN A. JACKSON & BRO., 30 Beekman St., N. Y.



STAMPED STEEL CEILINGS

MANY
DESIGNS
H. S. NORTHROP
Manufacturers
30 ROSE ST.
NEW YORK



YALE LOCKS



L. HABERSTROH AND SON:

INTERIOR DECORATORS AND PAINTERS

9 Park St. Cor. Beacon
Boston Mass.Artistic Relief
ProcessesTapestry-Leather
Mosaic Effects

Established in 1848

BLACKCROSS PORTLAND CEMENT

IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,

IMPORTERS ROMAN, KEENE'S, VICAT CEMENTS, ENGLISH GLAZED BRICKS, 23 Liberty Street, NEW YORK.



The only Rubber Insulation Awarded Medal at World's Fair, Chicago, U. S. A., 1893.

High Grade Insulated Wires for Interior Use
Electric Light Wires and Feeders.

Kerite Tape.

WRITE FOR CATALOGUE.

Kerite Elastic Tape.

W. R. BRIXEY, Manufacturer, 203 Broadway, NEW YORK.

ASPHALT FLOORS, ROOFS, SIDEWALKS AND CARRIAGE-WAYS

Of Public Buildings, Hospitals, Warehouses, Stables, Cellars, etc.

Laid with VAL de TRAVERS ROCK ASPHALT,

DURABLE, FIREPROOF AND IMPERVIOUS.

For estimates and list of works executed, apply to

THE NEUCHÂTEL ASPHALT CO., Limited,
285 BROADWAY. - - - NEW YORK.

Brown's Patent Seamless DRAWN COPPER HOUSE BOILERS.

Cannot collapse.

Will not leak.

Ordinary boiler tested to 200 lbs.

Extra heavy tested to 300 lbs.

Made of two seamless drawn copper shells.

Handsome, best and strongest in the market.

Send for circular giving instructions for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES,
Waterbury, Conn.

Western Depot: 71 West Washington St., Chicago. Branch Offices: 104 John St., New York; Room 320 Philadelphia Bank Building, Philadelphia; 99 Milk St., Boston; Room 208, Neave Building, Cincinnati.

Proprietors of the Brown & Bros. Tubing and Boiler Works, and the Brown & Bros. Brass and Copper Rolling Mills.

Manufacturers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

TO THOSE INTERESTED IN, OR USING VALVES:



WE have recently made improvements in the manufacture of JENKINS BROS.' VALVES, having increased the number of bolts, thickness of flanges, etc. We shall manufacture ONE GRADE OF VALVE ONLY, suitable for high or low-pressure steam. The Jenkins' Discs used in these valves are suitable for high or low pressure. We guarantee all valves stamped with Trade Mark.

JENKINS BROS.,

New York, Chicago, Philadelphia, Boston.

THE DECORATIVE GLASS

in Abbey's Theatre, N. Y., and Keith's Opera House, Boston, are examples of Renaissance and Rococo designs, the movement, carried out entirely in our hard metal settings.

METALLIC SETTING CO.,
137 Weybosset St., PROVIDENCE, 5 Park Sq., BOSTON.

BLAKE BELL CO.

Successors to Wm. Blake & Co.

Bell Founders and Brass Finishers.

Castings in any metal except iron.

Monumental Tablets, Artistic Brass Work.

Allen and Brighton Sts., BOSTON.

J. W. TAYLOR'S PHOTOGRAPH SERIES.

51 MONROE ST. CHICAGO. OF AMERICAN ARCHITECTURE.

Removed to Owings Building.

Send two 5 cent stamps for Catalogue.

PARQUET FLOORS.

The National Wood Manufacturing Co.,

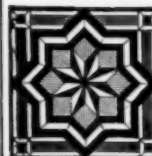
129 5th Avenue, New York.

WAINSCOTINGS and CEILINGS.

Inlaid Wood Floors 5-16 and 7-8 inch thick.

Solid work, Tongued and Grooved in each piece.

Designs & Estimates on application. Established 1867.



POINTS ON VARNISH.

NO. 262.—"THEY LIKE TO BE HUMBUGGED."

That is what Barnum said of the people. That is what many an architect is tempted to say of the men who pay finishing bills.

Of course it is a mistake. People do not like to be humbugged. They hate it above all things. They are always afraid of it and constantly suspecting it. That is why they suffer so much of it. They expect it in the wrong place, and fall into the trap while they are gazing for the snare.

People expect to be humbugged in price. They are always on the lookout for an extra dollar in the price. That is what blinds them. Suspicion is nearly always mistaken. The real, fatal humbug is in the *quality of goods*, and there the inexperienced are caught. An architect states a fair price for a good varnish. The owner is looking for a snare. He talks with a painter and finds there is cheaper varnish. He will circumvent that wily architect; *i. e.*, he walks into the painter's trap. Let the architect explain to him, beforehand, that humbugging is a large and lucrative trade—and where it flourishes.

MURPHY VARNISH CO.
FRANKLIN MURPHY, President.

Head Office: Newark, N. J.
Other Offices: Boston, Cleveland, St. Louis, Chicago.
Factories: Newark and Chicago.

TO ARCHITECTS:

If you desire to recommend a firm as one thoroughly capable of supplying *complete* furnishings for a hotel, club-house or private residence, you can mention us *with confidence*.

We supply CARPETS, RUGS, UPHOLSTERY FABRICS, FURNITURE, ETC., ETC.

Our goods are right; our prices are right.

We make a specialty of *private and exclusive patterns* which cannot be duplicated elsewhere.

John H. Pray, Sons & Co.,
658 Washington Street,
Opposite Boylston Street,
BOSTON.

F. W. DEVOE & CO.

(Established 1852.)

Fulton St., cor. William, New York.
No. 176 Randolph St., Chicago.

Pure Ready-mixed Paints.

We desire to call attention of consumers to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fireproof." We use no secret or patent method in manufacturing them by which benzine and water are made to serve the purpose of pure linseed oil.

Sample cards, containing fifty desirable shades sent on application.

FINE VARNISHES.

Hard Oil-Finish & Wood-Stains.

Illustrated Catalogue of Engineers' and Architects' Supplies, 250 pages, 700 Illustrations, on request.

White-Lead Colors in Oil and Japan.

H. W. Johns Asbestos Roofing FIRE PROOF. DURABLE. ECONOMICAL. LIGHT.

This Roofing may be easily applied by unskilled workmen. It is more durable than tin and costs about one half as much. It has been in use for thirty five years by many well known manufacturers and large corporations throughout the United States.

SAMPLES, PRICES & FURNISHED ON APPLICATION

H. W. JOHNS MFG CO. NEW YORK · JERSEY CITY · CHICAGO · PHILADELPHIA · BOSTON

JAMES A. MILLER & BRO. 129 & 131 S. CLINTON ST. CHICAGO

SLATE TIN AND IRON ROOFERS	CORRUGATED IRON FOR ROOFING AND SIDING.	GALVANIZED IRON CORNICES
THE HAYES SKYLIGHT.	CORRUGATED CONDUCTOR PIPE	WARRANTED NOT TO BURST WHEN FULL OF ICE.

Awarded the Grand Prize at the late Paris Exposition.

SEND FOR THIS BOOK FREE ON APPLICATION.

BABCOCK & WILCOX CO. WATER TUBE

30 CORTLANDT ST. N.Y.

BRANCH OFFICES:

- BOSTON, MASS. 8 OLIVER ST.
- PHILADELPHIA, PA. 32 N. 5TH ST.
- PITTSBURGH, PA. 408 LEWIS BLOCK
- CLEVELAND, O. 412 PERRY-PAYNE BLDG.
- CHICAGO, ILL. 45 S. JEFFERSON ST.
- MINNEAPOLIS, MINN. 604 CORN EX.
- NEW ORLEANS, LA. 57 CARondelet ST.
- HAVANA, CUBA. 116 CALLE DELA UNION.

STEAM BOILERS

MANUFACTORIES IN UNITED STATES, SCOTLAND, FRANCE, GERMANY & AUSTRIA.

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING,
NEW YORK.

DREXEL BUILDING,
PHILADELPHIA.

MONADOCK BUILDING,
CHICAGO.

DASHWOOD HOUSE,
LONDON.

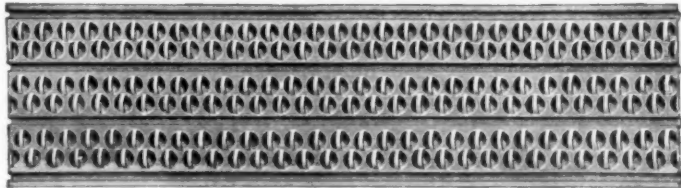


Announce to all who contemplate *building or renovating*
Hotels, Office Buildings or Residences, that they have
formed a department in their extensive works for

**Architectural Woodwork,
Fine Cabinet Work, and
Interior Finishing.**

Plans, designs, specifications and further particulars will be submitted on ap-
plication. Address **WORKS AT WILMINGTON, DEL.**

"Piqua" Steel Lath.



"Piqua" Lath is made from the best quality of steel, in sheets 27 1/4 x 48 inches, and each sheet covers exactly one square yard of surface. The corrugations shown in cut are 3 3/4 inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.

Steel Plastering Lath.
Superior to wood or any other lathing material. Strength, durability and economy secured at once. The fire risk reduced to a minimum. Made of

Expanded Metal

No contraction or expansion, consequently no cracks or falling plaster. Easily applied without stretching or furring, making perfect key and solid work. Write for illustrated Catalogue No. 29, containing valuable facts about the various uses of expanded metal.

CENTRAL EXPANDED METAL CO
531 WOOD STREET, PITTSBURG, PA.

PLAIN AND CORRUGATED

GEO. HAYES,
METALLIC
SKYLIGHTS
LATHING.
AND 71-87th AVE.
NEW YORK, U.S.A.
SEND FOR CATALOGUE.

CORRUGATED ARCHES & GROINED CEILINGS

BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

New York, N. Y.—One Hundred and Third St., s. s., 59' w Manhattan St., 2 five-st'y brick flats, flat tin roofs, 25' x 85', 50' high; \$40,000; own. Wm. H. Hall, Jr., 227 Lenox Ave.; arch., Neville & Bagge, 217 West 125th St.

One Hundred and Thirty-fifth St., s. s., 410' e 6th Ave., five-st'y brick flat, flat tin roof, 25' x 90', 50' high; \$22,000; own. Pauline Aaron, Bath Beach, L. I.; arch., Michael J. Garvin, 3311 Third Ave.

West Thirtieth St., No. 223, five-st'y brick flat, flat tin roof, 23' 5' x 89' 4", 55' high; \$17,600; own. Michael Duffy, Sr., 341 West 53th St.; arch., James W. Cole, 403 West 51st St.

West One Hundred and Twenty-ninth St., Nos. 131-137, six-st'y brick flat, flat tile roof, 75' x 90', 70' high; \$90,000; own. and arch., Wm. B. Franke, 35-38 Mt. Morris Ave.

Madison St., No. 26, five-st'y brick flat, flat tin roof, 24' x 108', 59' 4" high; \$22,000; own. Estate of John Goodman, 48 Seventh St.; arch., Kurtzer & Kohl, 7th St., cor. 3d Ave.

One Hundred and Twenty-seventh St., s. e. cor. Columbus Ave., 3 five-st'y brick flats, flat tin roof, 24' x 25' x 69' x 71', 59' high; \$57,000; own. August Jacob, 260 East 78th St.; arch., John Hauser, 1441 Third Ave.

One Hundred and Twenty-seventh St., s. s., 75' e Columbus Ave., five-st'y brick flat, flat tin roof, 25' x 69', 59' high; \$16,000; own. August Jacob, 260 East 78th St.; arch., John Hauser, 1441 Third Ave.

CHURCHES.

Millville, Pa.—Briek Methodist Episcopal Church with stone trimmings; arch., Thomas Boyd, Pittsburgh, Pa.

Philadelphia, Pa.—Girard Ave., n. e. cor. 42d St., one-st'y stone and brick chapel, 59' x 83'; con. Chas.

BUILDING INTELLIGENCE.

(Churches Continued.)

P. Nesbitt, 425 Locust St.; own., Presbyterian Church.

EDUCATIONAL.

Ardmore, Pa.—Two-st'y brick and stone school, heated by hot air; arch., D. Judge De Neau.

Greenfield, Mass.—Two-st'y brick high school, 8 rooms, pitch roof, 52' x 115'; \$25,000; arch., Forbush & Hathaway, 6 Beac-n St., Boston; not let.

Orange Valley, N. J.—Plans have been prepared by Rossiter & Wright, architects, 47 Liberty St., New York City, for a school, to be built for the Trustees of the West Orange School.

Philadelphia, Pa.—Tucker St., w. Cedar St., four-st'y stone Roman Catholic School, in St. Ann's Parish; arch., Edwin F. Durang, 1240 Chestnut St.

Fernon St., s. e. cor. 18th St., four-st'y brick and stone school, for St. Thomas Roman Catholic Church; con., E. Dalaney; arch., Edwin F. Durang, 1240 Chestnut St.

Brandywine, Green and Broad Sts., three-st'y granite and sandstone school, 170' x 222' 9"; con., Johnston & Byrnes, 1313-1315 Filbert St.

St. Louis, Mo.—Two-st'y school, Benton St., n. s., bet. 23d and 25th St.; \$6,000; own. Gen. Evg. Zion Cong.; con. Richter & Son.

Willow Grove, Pa.—One-and-one-half-st'y stone public school, 54' x 81'; about \$8,000; con., J. M. Pieker, Hatboro; arch., Mr. Douglass.

FACTORIES.

Philadelphia, Pa.—Reese St., w. s, n. Cumberland St., two-st'y brick and stone factory; con., Charles A. Heinke, 541 Lehigh Ave.

HOSPITALS.

New York, N. Y.—Spuytgen Duyvil Parkway, 200

INSTRUCTION BY MAIL

In Architectural Drawing,
Plumbing, Heating and Ventilation,
Bridge Engineering,
Railroad Engineering,
Surveying and Mapping,
Electrical Engineering,
Mechanics,
Mechanical Drawing,
Mining,
English Branches, and

ARCHITECTURE.

Diplomas awarded. To begin, students need only know how to read and write. Send for FREE Circular of information stating the subject you think of studying to

The Correspondence School of Mechanics
and Industrial Sciences,
SCRANTON, PA.

4000 STUDENTS.

BUILDING INTELLIGENCE.

(Hospitals Continued.)

n Warren Ave., three-st'y brick hospital building peak and flat slate and tin roof, 39' x 35' x 125', 30 high; \$15,000; own., Seton Hospital, Spuyten Duyvil Parkway; arch., Wm. Schickel & Co., 246 Fifth Ave.

HOUSES.

Boston, Mass.—Bennington St., Ward 1, three-st'y frame dwell., flat roof, 21' x 60'; own., Mrs. Julia F. Brown; bld., J. M. Prior.

Monument Sq., No. 45, Ward 5, three-st'y frame dwell., flat roof, 35' x 37'; own., J. H. & W. S. Brown; bld., J. B. Maynard.

Monument Sq., No. 65, three-st'y frame stable, flat roof, 36' 6" x 37' 6"; own., Joseph H. & W. S. Brown; bld., J. B. Maynard.

Everett St., No. 21, Ward 2, three-st'y frame dwell., flat roof, 28' x 69' 10"; own., Mrs. Alma Heutice; bld., G. T. Rideout.

Colton St., No. 6, Ward 13, three-st'y frame dwell., flat roof, 21' x 59' 6"; own., W. L. Macomber; bld., Kendall & Stearns.

Argyle St., near Cornwall St., Ward 23, three-st'y frame dwell., pitch roof, 24' x 41' 6"; own., Henry Hughes; bld., McKenzie & Beatty.

Bennington St., No. 174, Ward 1, three-st'y frame dwell., flat roof, 21' 6" x 55' 1"; own., J. F. Wood.

West Second St., Nos. 38-40, Ward 13, 2 three-st'y frame dwell., flat roofs, 25' 6" x 26' 3"; own., W. L. Macomber.

Brooklyn, N. Y.—Second St., n. s., 297' 10" e 7th Ave., 5 three-st'y and basement brick dwell., 29' x 45', tin roofs; \$7,000 each; own., L. J. Madden, Leonard and Richardson Sts.; arch., J. I. Allen, 371 Fulton St.

Jana St., Nos. 96-98, 2 four-st'y brick dwell., 25' x 65', tar and gravel roofs; \$15,000; own., Mrs. Louisa K. Broad, 96 Java St.; arch., Benj. E. Lowe, 64 College Pl., New York City.

Thirty-second St., n. s., 305' e 4th Ave., 2 two-st'y and basement frame dwell., 17' 6" x 42', tin roofs; \$2,200 each; own., arch. and bld., John Best, 161 Fifty-fifth St.

Camden, N. J.—Lawrence St., bet. 10th and 11th Sts., 11 two-st'y brick dwell.; bld., Wm. Wifford.

Market St., s. s., above 7th St., three-st'y brick dwell.; own., David Simons.

Chestnut Hill, Pa.—Abington St., n. w. s, w Germantown Ave., 2 two-st'y brick dwell.; con., A. K. Schock, Springfield Ave.

Chicago, Ill.—Mrs. Mary Ellipdike, two-st'y dwell., 1224 Stewart Ave.; \$3,000.

R. W. Roleson, 4 two-st'y dwell., 3213-3219 Calumet Ave.; \$27,000.

D. F. Flannery, two-st'y dwell., 967-969 Kenmore Ave.; \$6,000.

W. Berger, 2 two-st'y dwell., 3927-3929 Vincennes Ave.; \$7,000.

E. P. Harris, 3 two-st'y dwell., 7945-7951 Ontario Ave.; \$4,200.

D. F. Patterson, two-st'y dwell., 7131 Webster Ave.; \$6,500.

E. Gigolona, two-st'y dwell., 6728 Evans Ave.; \$3,500.

R. M. Wells, two-st'y dwell. and stable, 3804-3806 Michigan Ave.; \$20,000.

W. Hester, two-st'y dwell., 23 Arlington Pl.; \$6,000.

T. Mahlmann, two-st'y dwell., 518 Drummond Ave.; \$5,000.

D. S. Brush, two-st'y dwell., 4415 Michigan Ave.; \$15,000.

Mrs. R. N. Matson, two-st'y dwell., 1116 Kenmore Ave.; \$7,000.

M. Leyden, two-st'y dwell., 1673 Monroe St.; \$7,000.

Germantown, Pa.—Phileena St., n. w. s, n. e. Quincey St., three-st'y stone dwell., 29 1/2' x 46'; own. and bld., Wendell & Smith.

Carpenter St., n. w. s, 150' s w Germantown Ave., three-st'y brick and stone dwell. and a stone stable; estimated cost, \$12,000; own., Dr. Wm. M. Alrich; con., Wendell & Smith.

Jersey City, N. J.—Two two-st'y and basement brick dwell., will be built; about \$8,000 each; arch., G. W. Laban, 76 Montgomery St.

New York, N. Y.—Travers St., n. s., 125' w Bainbridge Ave., three-st'y brick and frame dwell., peak shingle roof, 29' x 30', 34' high; \$3,500; own., Waiter T. Lee, 111 West 124th St.; arch., Charles S. Clark, 719 East 177th St.

Morris Ave., w. s, 163' s 163d St., three-st'y brick and frame dwell., flat tin roof, 21' 6" x 55' 55" high; \$5,500; own., Alexander Lott, w. s Morris Ave., 85, s 163d St.; arch., Gustav Schwarz, 554 East 158th St.

One Hundred and Fifty-eighth St., n. s, 120' w 11th Ave., three-st'y brick dwell., flat tin roof, 25' x 65',

Iron-Work.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,

BEAMS, CHANNELS, ANGLES, ZEEs, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.Round, Square and Flat Bars
of all sizes.

SPECIALTIES:

PHENIX COLUMNS AND UPSET EYE-BARS

Of all sizes, in Iron or Steel.

ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.

AGENTS:

New York: EDWARD CORNING & Co., 29 Broadway.
Chicago: A. C. STITES, 831 Rookery Building.
Boston: EDWARD CORNING & Co., 70 Kilby Street.PASSAIC ROLLING MILL CO.,
PATERSON, N. J.

STEEL BEAMS

4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

NEW YORK OFFICE, - - 43 BROADWAY

BELMONT IRON WORKS, Limited.

Successors to

MANLY & COOPER MANUFACTURING CO.

Ornamental

AND

Architectural

IRON.

Twenty-Second Street and Washington Ave
PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Houses Continued.)

37' 6" high; \$14,000; own, Helen M. Schram, 1160

West 87th St.; arch, Berg & Clark, 10 West 23d St.

One Hundred and Eighty-second St., n s, 25' w

Audubon Ave., three-sty stone and frame dwell.,

flat tin roof, 20' x 30', 28' high; \$4,000; own, James

C. Byrne, 271 West 40th St.; arch, James Stroud,

1267 Broadway.

Spring St., No. 50, three-sty brick dwell., flat tin

roof, 25' x 40', 35' high; \$5,250; own, Wendel Estate,

79 Maiden Lane; arch, John B. Snook & Son, 112

Chambers St.

Fulton St., s w cor. Pelham Ave., three-sty brick

and frame dwell., flat tin roof, 25' x 70', 35' high;

\$5,000; own, Bernard Halpin, Pelham Ave., e Fulton

Ave.; arch, J. De Hart, Fox St., near 165th St.

Home St., n w cor. Hoe Ave., three-sty brick and

frame dwell., flat tin roof, 25' x 50', 35' high; \$4,500;

own, James O'Hare, 355 East 88th St.; arch, T. J.

Miller, 727 East 163d St.

Fond Pl., e s, 125' n Williams St., 2 three-sty

brick and frame dwell., peaked slate roof, 20' x 30',

22' high; \$7,000; own, Mary A. Hill, Bainbridge

Ave., near William St.; arch, Chas. S. Clark, 719

East 177th St.

Rodger Pl., No. 27, three-sty brick dwell., flat tin

roof, 25' x 52', 24' high; \$3,500; own, Frederick

Heins, 608 Eleventh Ave.; arch, D. J. Menton, 169

West Boulevard.

Eighty-eighth St., s s, 450' e Amsterdam Ave., 4

three-sty brick dwell., flat tin roofs, 18' x 52', 45'

high; \$60,000; own, James B. Gillie, 114 West 88th

St.; arch, Neville & Bagge, 217 West 125th St.

Clinton Ave., n e cor. Elwood Pl., three-sty brick

and frame dwell., flat tin roof, 20' x 50', 32' high;

\$3,800; own, Lulu Gebhardt, Franklin Ave. and

Elwood Pl.; arch, Charles S. Clark, 719 East 177th

St.

Philadelphia, Pa. — Leithgow St., No. 2023, two-sty

brick dwell. with back building; con., Stahl Bros.,

2847 North 13th St.

Morton St., s w s, below Washington Lane, 3

three-sty stone and brick dwell. with back build-

ings; con., Charles O. Roup, 4 Herman St.

Pelham St., e s s, Emuln St., three-sty stone dwell.

with back building; about \$16,000; con., W. J.

Gruhlner, 46 Herman St.; own, J. H. Boltz.

Ridge Ave., e s s, n Gorgas Lane, two-sty stone

dwell. with back building; own, Joseph T. Hend-

erson, Ridge Ave., above Prospect St.

Almond St., n w s, s w Lafayette St., 2 two-sty

brick dwell.; con., Sinn & Crosta, 4536 Salmon St.

Clementine St., s s, n 13th St., 14 two-sty brick

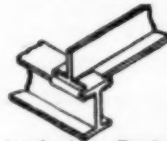
JACKSON ARCHITECTURAL IRON WORKS,
ESTABLISHED 1840.

IRON

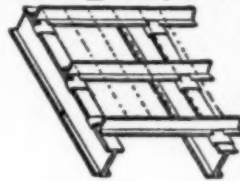
Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams,
Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings
and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze.
Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts.

Office, 315 East 28th St., New York.



H. A. Streeter's Patent Clip

ARCHITECTS, OWNERS, CONTRACTORS, and all
others interested in Iron or Steel construction will please
note that I have PATENTED A STEEL CLIP for connect-
ing Angle or Tee bars to I Beams, etc., which reduces the expense one-half,
and does away with the old method of Drilling and Bolting, which is a great sav-
ing of Time, besides allowing an easy method of adjusting Tee bars to any de-
sired width of Tile. (This method is now adopted by our principal contractors).
Clips furnished ready to apply by sending the Sections and weight of Tee
Bars and I Beams, for which connections are wanted.

FOR PRICES AND FURTHER INFORMATION

APPLY TO STREETER

Globe Iron Works,

35-41 E. INDIANA STREET,
CHICAGO, - - - ILL.ORNAMENTAL
IRON
WORKPRISMATIC
LIGHT
WORK

BUILDING INTELLIGENCE.

(Houses Continued.)

Dutton St., w s s, Godfrey St., 2 two-sty stone and
brick dwell.; con., Henry Davenport, 618 East
Chelton Ave.

Ludlow St., n w cor. 43d St., 2 three-sty brick

dwell.; con., H. W. Urian, 5518 Woodland Ave.

Forty-fourth St., e s, bet. Aspen and Brown Sts.,

10 two-sty brick dwell. with back buildings; also

store and dwell.; own, A. C. McGill, 236 Pine St.

Leidy Ave., n s, 41st St., 12 three-sty brick and

stone dwell. with back buildings; own, Franklin

B. Brown, 4145 Leidy Ave.

South Broad St., No. 1817, three-sty brick and

stone dwell. with back building; own, and bid.,

Doyle & Doak, 133 South 15th St.

Royer St., s s, e Locust St., three-sty brick dwell.

with back building; own, Thomas Huston, Buckins

St., Germantown.

Boater St., No. 232, two-sty brick dwell. with

back building; con., Dykes & Haddock, 2302-4 Tulip

St.

Fortieth St., w s, n Baring St., three-sty brick

dwell. with back building; con., David S. Gendell,

2219 Chestnut St.

Windsor Ave., s s s, s w Forty-eighth St., 3 three-

sty stone, brick and slate dwell.; own, McCooch

& Johnston, 1607 Sansom St.

Allegheny Ave., s s, from Camac to Thirteenth

Sts., 10 two-sty brick and stone dwell. with back

buildings; own, George V. Gunn, 1204 Lehigh Ave.

Malcolm St., s w cor. Fifty-first St., 13 three-sty

brick dwell. with stone trimmings, 4 of them with

back buildings; own, Frank M. Malcolm; con.,

John J. Raney, 303 Hale Building.

Mifflin St., Nos. 1925-1927, 2 two-sty stone and

brick dwell. with back buildings; own, Charles F.

Gallagher, 1923 Mifflin St.

Windrim St., n s, e Thirteenth St., two-sty frame

dwell.; own, Jacob Wilhelm, 4392 North Sixteenth

St.

Broad St., e s, 120' n Loudon St., three-sty brick

dwell. with back building; con., Lewis B. Bitters,

Rockland St., e Third St.

Ludlow St., n e cor. Forty-eighth St., 4 two-sty

brick dwell. with back buildings; own, Benjamin

Sharp, Market and Forty-eighth Sts.

Mather St., 170' s Toga St., two-sty brick dwell.,

with back building; own, Geo. B. Tall, 2819 North

Twelfth St.

Spruce St., No. 919, four-sty brick dwell.; con.,

Jacob Wenzelberger, 1220 Filbert St.

BUILDING INTELLIGENCE.

(Houses Continued.)

Woodland Ave., n s, n w Forty-second St., three-

sty stone and brick dwell. and livery stable; con.,

John W. Leamy, 523 South Forty-second St.

St. Louis, Mo. — Two-and-one-half-sty dwell, n e

cor. Russell St., bet. Jefferson and Ohio Aves.;

\$6,200; own, C. Klewies; con., W. Klewies & Son.

Two-sty dwell, n s Page St., bet. Newstead and

Taylor Aves.; \$9,000; own, and con., A. Cramer.

Two-and-one-half-sty dwell, n e cor. Schenadoah

St., bet. Compton and Louisiana Aves.; \$5,000; own

and con., H. Blest.

Two-sty dwell, n s Bell Ave., bet. Newstead and

Taylor Aves.; \$10,000; own, J. Kelley; con., J.

Wilkinson.

Worcester, Mass. — Perkins St., one-and-one-half-

sty frame dwell.; own, P. A. Witt; con., F. H.

Holland; arch, Geo. H. Clemence.

Pleasant St., one-and-one-half-sty frame dwell;

own, H. R. King; day-work.

Lincoln St., one-and-one-half-sty frame dwell;

own, Mrs. Sarah C. Sanders; day-work.

Hammond St., four-sty frame dwell.; own, and

bid., P. T. Hogan; arch, Geo. and J. P. Kingston.

Cutler St., one-and-one-half-sty frame dwell;

own, Geo. Jennison; con., Geo. M. Hubbard.

OFFICE-BUILDINGS.

Philadelphia, Pa. — Filbert St., Nos. 1026-1028, six-

sty stone, brick and terra-cotta office-building to be

known as the "Maloney Building"; about \$15,000;

arch, Thomas P. Lonsdale, Manhattan Life Build-

ing, Walnut St., s e cor. 4th St.; own, Andrew Ma-

loney; con., Chas. P. Nesbitt, 425 Locust St.

Clearfield St., s w cor. Broad St., one-sty brick

office; con., William McKee & Co., 2445 Alder St.;

own, T. J. Eynon & Son.

South Fifteenth St., No. 25, one-sty brick office,

con., Thomas Gannon; own, Dr. Mitchell.

STABLES.

Philadelphia, Pa. — Wharton St., s w cor. Eleventh

St., one-sty brick and stone veterinary stable, 34' x

53', with two wings, 33' x 81' each; con., George L.

Harvey, 1710 Rittenhouse St.

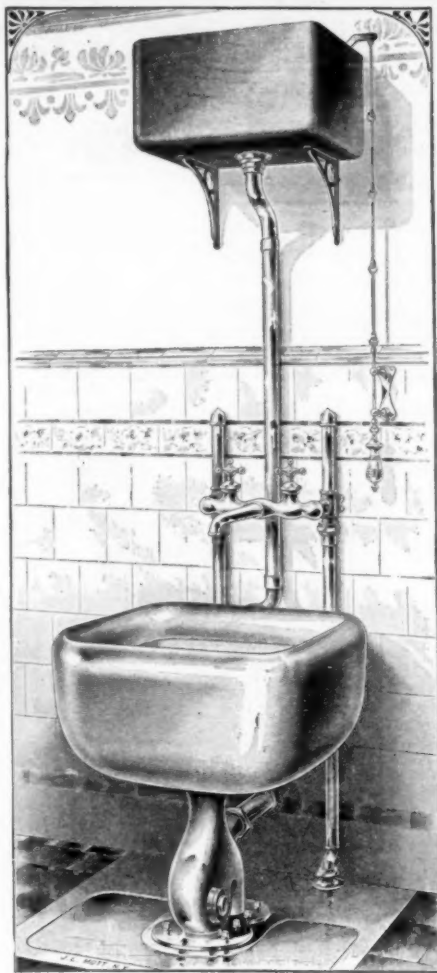
Dean St., Nos. 250-252, two-sty brick stable; con.,

Joseph Price, 1228 Locust St.

Juniata St., s w cor. Wayne St., two-sty brick

stable and frame shed covered with metal; own,

Mrs. E. Ancott, 1515 Park Ave.



Copyright, 1894, by The J. L. MOTT Iron Works.
PLATE 1146-G. REDUCED CUT.

THE J. L. MOTT IRON WORKS.

84 to 90 Beekman Street, NEW YORK,
AND
311 & 313 Wabash Avenue, CHICAGO.

THE RICHMOND IMPERIAL . . . PORCELAIN OR COLONIAL . . . FLUSHING-RIM SLOP-SINK

Represents a new and valuable departure. The Flushing-Rim is an integral part of the Sink, which is strong and durable. The Sink is glazed inside and out, and is well adapted for Public Buildings, Hospitals, and Residences. The Imperial Porcelain is white inside and light buff outside; the Colonial is light buff inside and outside.

Illustrated price-list mailed on application.

BUILDING INTELLIGENCE.

STORES.

Brooklyn, N. Y. — *Tompkins Ave.*, e s, 50' n Pulaski St., seven-st'y brick store, 28' x 74', tin roof; \$3,000; own., M. Battatora, 139 Tompkins Ave.; arch., D. Acker & Son, 752 Broadway.
Vernon Ave., s s, 200' e Flatbush Ave., three-st'y frame store and dwell., 27' x 53', tin roof; \$5,200; own., Louis Miller, Vernon Ave.; arch., J. C. Richardson.

Chicago, Ill. — *Saccone & Marrubia*, five-st'y store and flats, 469 North Wells St.; \$15,000.

Max Goodman, four-st'y store and flats, 397 West 14th St.; \$4,500.

Peter De Young, two-st'y store and flats, 743 West Chicago Ave.; \$8,000.

Mrs. Mary Kross, three-st'y store and flats, 122 Washbourne Ave.; \$3,800.

Chas. Demein, three-st'y store and flats, 1451 Ogden Ave.; \$7,000.

Henry Govebritz, three-st'y store and flats, 2605 Wentworth Ave.; \$5,500.

E. Hoffman, six-st'y store, 458-464 Wabash Ave.; \$60,000.

X. Ewel, four-st'y store and flats, 24 26 North Centre Ave.; \$10,000.

Gustav Fleetwood, four-st'y store and flats, 138 Oak St.; \$10,000.

Philadelphia, Pa. — *Laurel Ave. and Thirty-seventh St.*, 3 three-st'y brick stores and dwells, with back buildings; own., Wright & Prentzel, 3560 Marshall St.

MISCELLANEOUS.

Brooklyn, N. Y. — *Fenimore St.*, n s, 116' e Kingston Ave., two-st'y and attic brick boiler-house and laundry, 30' x 69', shingle roof; \$17,233; own., City of Brooklyn, Health Dep't, New York City; arch., H. D. Hooker, 52 Broadway, New York City; bld., J. D. Anderson's Sons, superintended by Health Dep't Engineer.

Frankford, Pa. — *Frankford Ave.*, about 100' n Unity St., two-st'y brick depot for the Philadelphia and Frankford Railroad Co.

Philadelphia, Pa. — *Adams St.*, Nos. 2156 8 one and two-st'y brick shed for wagons and carriages; con., John Riber, 2673 Frankford Ave.

Oxford St., s w cor. Germantown Ave., two-st'y brick bottling-house; con., John Kramer & Son, 1314 North Front St.

Albion St., n Chestnut St., e 221 St., three-st'y brick and terra-cotta building for "The Boys' Evening Home and Library Association," with reading and coffee rooms, a gymnasium, etc.; arch., West-ray Ladd, 1710 Chestnut St.

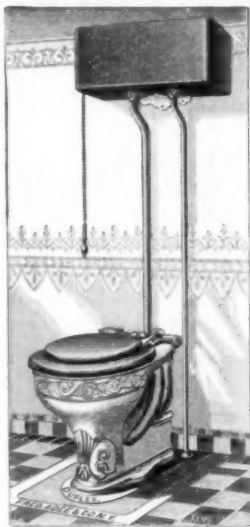
Zoological Garden, Fairmount Park, one-st'y brick monkey-house, 34' x 111½'; con., William R. Dougherty, 1604-6 Sanson St.

Comly St., n e s, 100' s e Torredale Ave., two-st'y brick plumber-shop and stable; con., S. S. Witner, 3327 Comly St., Wisconsin.

Evangelist St., No. 702, three-st'y brick blacksmith-shop and dwell.; con., Antonio Donato, 1005 South 8th St.

Ontario St., n w cor. Jefferson St., three-st'y stone parish house; con., William Steele & Son, 506 Walnut St.

Worcester, Mass. — *Walnut St.*, four-st'y brick and stone business-block; own., J. C. Day; con., G. W. Honek; arch., Barker & Nourse.



"DUPLIX" THE BEST WATER CLOSET IN THE WORLD

Quiet in Operation,
Positive in Action,
Elegant in Appearance
—AND—
Sanitarily Perfect.

FRED. ADEE & CO.,
90 BEEKMAN ST.,
NEW YORK.

COMPETITIONS.

STATE-HOUSE.

[At St. Paul, Minn.]

Pursuant to the provisions of Chapters 2 and 3 of the General Laws of Minnesota for 1893, the Board of State Capitol Commissioners hereby give notice that they will receive, prior to **September 11, 1894**, (and on said date will meet, and proceed to examine) designs for a new Capitol building for the State of Minnesota.

The building is to be fireproof throughout, designed in accordance with approved modern methods of construction, and equipped with the best known methods of heating and ventilation.

The entire cost of the building complete, including heating, ventilating and lighting apparatus and fixtures, must not exceed the sum of one million five hundred thousand dollars (\$1,500,000).

Four premiums, of five hundred dollars (\$500) each, will be awarded to the designs adjudged to stand, in point of merit, second, third, fourth and fifth, the accepted design to receive no other premium than the fee allowed by the Board for designing and superintending the construction of the building.

Detailed instructions, with a map of the grounds on which the building is to be erected, will be furnished on application.

All communications and all designs submitted in accordance herewith, should be addressed to "The Board of State Capitol Commissioners, St. Paul, Minn."

The Board reserves the right to reject any or all designs submitted to them, and to proceed anew thereafter.

COMPETITIONS.

St. Paul, June 11, 1894.

H. W. LAMBERTON,
JAMES McHENCH,
GEO. A. DeTOIT,
CHANNING SEABURY,
JOHN DE LAITRE,
C. H. GRAVES,
E. E. CORLISS,
Commissioners.

PROPOSALS.

STAND-PIPE.

[At Glendale, O.]

Proposals are wanted until **July 18**, for a stand-pipe. Address **CHARLES B. GOING**, Secretary, United Bank Building, Cincinnati, O.

SCHOOL-HOUSE.

[At Gillett, Ark.]

Proposals are wanted for a brick school-house. Address **W. C. CHAMPION**, as above.

SCHOOL-HOUSE.

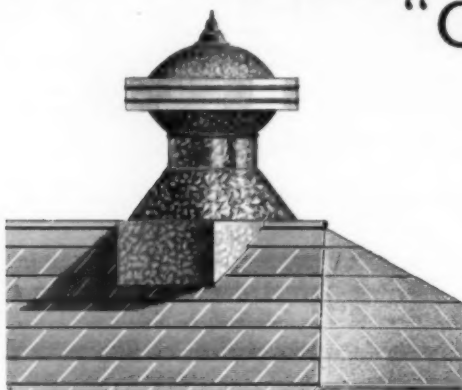
[At Riverside, O.]

Proposals are wanted until **August 3**, for a school-house. Address **J. M. BARKLEY**, as above.

ORNAMENTAL IRON WORK.

[At Boston, Mass.]

OFFICE OF **CHARLES BRIGHAM**, ARCHITECT,
BEACON HILL PL., BOSTON, MASS.
Sealed proposals will be received at this office until



"COME OFF THE ROOF"

may be a slang expression, but it doesn't apply to

GLOBE VENTILATORS.

They "Get there" and "Stay there."

Through sunshine and through storm, doing their work silently, steadily, satisfactorily.

Send for Special Pamphlet on Ventilation.

MANUFACTURED BY

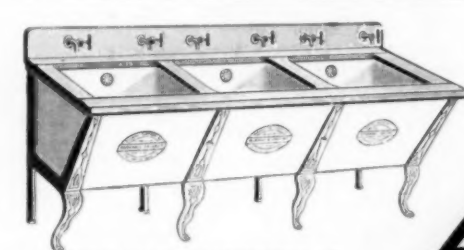
GLOBE VENTILATOR COMPANY,
TROY, NEW YORK.

BROUGHTON'S
Patent
Self-Closing
BASIN
COCK.

CAN
NOT
BE
TIED
OPEN.

Every One Warranted.

Stebbins Mfg. Co., BRIGHTWOOD, MASS.,
SOLE MANUFACTURERS.



SOLE MANUFACTURERS OF
MORAHAN'S PATENT SOLID WHITE
CROCKERY STATIONARY

WASH TUBS

Perfectly Glazed, Smooth Surfaces.
No labor required to keep clean.
Cannot absorb, leak or decay.
Not affected by heat or cold.
No seams to open. Very strong.
Over fifteen years on the market.
Warranted for thirty years against
injury, violence excepted.
Thousands in use.
BEWARE OF IMITATIONS.

The Only PERFECT
SANITARY TUBS
in Existence.

312
PEARL STREET,
COR. FRICK BLIP
NEW YORK.

259 WABASH AVENUE,
CHICAGO, ILL.

Three Highest Awards Columbian Exposition.



SOLID WHITE
CROCKERY

BUTLER'S
PANTRY, SLOP &

KITCHEN SINKS.

SAME MATERIAL AND STRENGTH AS TUBS.

THE VAN VRANKEN FLUSH TANK.
For Sewers, Subsoil Disposal, etc.
For catalogues, discounts and other particulars, address
J. LELAND FITZGERALD,
437 STATE STREET, SCHENECTADY, N. Y.

PROPOSALS.

Washington, D. C., July 7, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 31st day of July, 1894, and opened immediately thereafter, for the plumbing, gas-piping and electric-wire conduits for the United States Custom-house and Post-office building at Newark, N. J., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Newark, N. J. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Plumbing, Gas-piping and Electric-wire Conduits for the United States Custom-house and Post-office building at Newark, N. J.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 969

Treasury Department, Office Supervising Architect, Washington, D. C., June 28, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 27th day of July, 1894, and opened immediately thereafter, for all the labor and materials required for the iron-furring, lathing, plastering, etc., for the United States Court-house and Post-office at Wilmington, Del., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Wilmington, Del. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated for opening will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Iron-furring, Lathing, Plastering, etc., for the United States Court-house and Post-office at Wilmington, Del.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 968

MOORE'S GAS JET VENTILATOR.



INSURES
AT
ALL TIMES
THOROUGH
VENTILATION.

HAINES, JONES & CADBURY CO.,
Sole Manufacturers,
1136 Ridge Ave., PHILADELPHIA.

"THE CAST SINK MUST GO"

THE COLUMBUS SINK DISPLACES
WROUGHT STEEL ALL OTHERS

PAINTED, GALVANIZED, ENAMELLED.

Send for descriptive circular and prices, to
The Kilbourne & Jacobs Mfg. Co.
Sole Manufacturers, COLUMBUS, OHIO.

PROPOSALS.

12 M., Monday, July 16, 1894, for the bronze and wrought-iron railings for the Massachusetts State-House Extension, plans and specifications of which can be seen at the office on and after Monday, July 9, 1894. The Commissioners reserve the right to reject any and all bids.

JOHN D. LONG,
C. EVERETT CLARK,
WM. ENDICOTT, JR.,
State-House Construction Commissioners.

ENGINE-HOUSES. [At Springfield, Mass.]
Proposals are wanted until July 16, for three engine-houses. Plans and specifications can be seen at office of B. Hammett Seabury, architect, Gill's Block, Springfield, Mass. Address J. E. Dunleavy, as above. 968

STEAM-HEATING. [At Springfield, Mass.]
Proposals are wanted until July 16, for heating apparatus for three engine-houses. Drawings can be seen at office of B. Hammett Seabury, architect, Gill's Block, Springfield, Mass. Address J. E. Dunleavy, as above. 968

Treasury Department, Office Supervising Architect, Washington, D. C., July 7, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 31st day of August, 1894, and opened immediately thereafter, for all the labor and materials required for the Surgeon's House (except heating apparatus) and Isolated Ward for the United States Marine Hospital, Detroit, Mich., in accordance with drawings and specification, copies of which may be had at this office or the office of the Superintendent at Detroit, Mich. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Surgeon's House and Isolated Ward building for the United States Marine Hospital, Detroit, Mich.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 969

Treasury Department, Office Supervising Architect,

Fire-proof Building.**RARITAN HOLLOW AND POROUS BRICK CO.,**

MANUFACTURERS OF

Hollow Fire-Clay and Porous Terra-Cotta Bricks

of Every Description, for Fireproof Buildings.

BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.

Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.

Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.

HENRY MAURER & SON,

Manufacturers of

FIRE-PROOF BUILDING MATERIAL

Of every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.

Porous Terra-Cotta, Fire-Brick, etc., etc.

Works, MAURER, N. J.

Office and Depot, 420 EAST 23d STREET, New York.

Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."

**C. PARDEE
WORKS,**Manufacturers All Kinds Fireproof Building Materials, etc.
Perth Amboy, N. J. See ad. on page XVI.**PIONEER FIREPROOF
CONSTRUCTION CO.**

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile AND Porous Terra-Cotta**FOR FIREPROOFING BUILDINGS.**

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

**TO ARCHITECTS,
BUILDERS
AND OWNERS.**

Sample and Circulars Free.

MINERAL WOOL,As a Lining in Walls and Floors for preventing the
ESCAPE OF WARMTH AND THE DEADENING OF SOUND.**AMERICAN MINERAL WOOL CO.**

Lessee of

Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N.Y. City.

Roebling^{STANDARD} Wire Lathing**FIREPROOF—DURABLE—ECONOMICAL**Pays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures
a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three
public tests—detailed accounts of which will be mailed to any address upon request.**THE NEW JERSEY WIRE CLOTH COMPANY,
TRENTON, N. J.****Building Stones.****J. P. FALT & COMPANY,**

Quarrymen & Miners of

RED SANDSTONE.

Contractors for CUT-STONE WORK.

Proprietors of Carlisle Quarries, Springfield, Mass.
Prices for rough stone furnished on application,
and estimates made for cut-stone work to be delivered
at any railroad point. Correspondence solicited.
Send for samples.**BOSTON FIRE-BRICK WORKS.****FRONT BRICK**BUFF, BROWN, MOTTLED YELLOW,
GRAY, OLD GOLD AND
OTHER COLORS.**ARCHITECTURAL
TERRA-COTTA**

In all its varied colors and forms.

FISKE, HOMES & CO.,

MANAGERS,

Factories on Federal Street and
at South Boston.

Office, 164 Devonshire St., Boston.

Times Building, Park Row, New York.

927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.

SOLE OWNERS AND MANUFACTURERS OF

J. G. MERRILL'S PATENT

SALAMANDER

Fire-Proof Composition

FOR BUILDINGS.

Used as Lining between
Floors, and upon Walls,
Ceilings, Elevator and
Light Shafts, Boiler Rooms,
Doors, Shutters, etc. It is
Air, Dust, and Vermin
Proof, and a Sound-

Deadener.

Office, 166 Devonshire Street, BOSTON.

A. J. HODDER, Pres.

CHAS. T. HAKER, Treas.

W. D. LOMBARD, Gen. Mgr.

Room 49 Master Builders
Assoc'n Building.For estimates on
**ASPHALT
WORK**of every descrip-
tion apply to Man-
ager,

T. Hugh Boorman,

N. Y. Mastic Works,

35 Broadway, N. Y.

Asphalt Mine Owners in France, Sicily, etc.

BROOKS, SHOOBRIDGE & CO.,**PORTLAND CEMENT.**

Works: Grays, Essex, England.

New York Office: 7 Bowling Green.

Massachusetts Material-Men and Contractors.

ARTIFICIAL STONE.	FIREPROOFING.	HEATING CONTRACTOR.	PAPIER MACHÉ.
SIMPSON BROS. 166 Devonshire St. Boston, Mass.	BOSTON FIREPROOFING CO. 166 Devonshire St. Boston, Mass.	W. E. FLORENCE, 247 Pynchon St. Boston, Mass.	CONLAN & MAYBECK, 65 Wareham St. Boston, Mass.
BUILDING CONTRACTORS.	FURNACES.	IRON WORK. (Building)	PRINTING.
LITTLEFIELD BUILDING CO. Incorporated. Room 57, 166 Devonshire St. Boston, Mass.	CYRUS CARPENTER & CO. 44 Hanover St. Boston, Mass.	R. F. HAWKINS' IRON WORKS, Springfield, Mass.	S. J. PARKHILL & CO. 218-226 Franklin St. Boston, Mass.
CARVERS, MODELLERS.	GRANITE.	MANTELS. (Wood)	SASH CORD.
JOHN EVANS & CO. 77 Huntington Ave. Boston, Mass.	GRANITE RAILWAY CO. 166 Devonshire St. Boston, Mass.	J. W. BAILEY & SONS CO. 14 Charlestown St. Boston, Mass.	SILVER LAKE CO. 78 Chauncy St. Boston, Mass.
ELECTRIC WORK.	HEATING. (Air & Water)	MASON CONTRACTORS.	SLATE. (Roofing)
BLODGETT BROS. & CO. 383 Federal St. Boston.	MAGEE FURNACE CO. 30-8 Union St. Boston, Mass.	THOMAS J. LYONS, 166 Devonshire St. Boston, Mass.	H. H. MATHEWS, 178 Devonshire St. Boston, Mass.

Bricks and Terra-Cotta.

HYDRAULIC BRICK,
PLAIN AND MOULDED
OF ANY COLOR.
RED, BUFF, GRAY, BROWN,
PINK, MOTTLED, GRANITE.

Total Annual Capacity, 100,000,000.

HYDRAULIC-PRESS BRICK CO.,
ODD FELLOWS' BUILDING,
ST. LOUIS, MO.

PERTH AMBOY
TERRA-COTTA COMPANY,
— OF —

PERTH AMBOY, NEW JERSEY.

OFFICE, 289 Fourth Ave., NEW YORK.

PHILADELPHIA
OFFICE,
Drexel Bldg.

BOSTON AGENTS,
WALDO BROS.,
88 Water Street.

TIFFANY PRESSED BRICK CO.,
Manufacturers of
Pressed and Enamelled Brick,
Plain and Ornamental,
403 Chamber of Commerce B'ld'g,
CHICAGO.

"Architects" } **LAFARGE'S**
SPECIFY } **CEMENT**

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,
Importer and Sole Agent,
81 and 83 Fulton St., N. Y.

GOETZ BOX ANCHOR
SELF RELEASING AND PREVENTS
DRY ROT IN TIMBER.

GOETZ POST CAP
STRONGEST OF ALL AND YET
SELF RELEASING.

GOETZ JOIST HANGER
WROUGHT IRON MACHINE MADE.
STRONGEST AND CHEAPEST.
BORE TWO HOLES. NO MORTISING.

72 GOETZ BOX ANCHOR CO.,
STATE ST. NEW ALBANY, IND.

SEND FOR CATALOGUE.



BUILDING-BRICK.

YARDS at West Brimfield, Mass., on Boston & Albany R. R., and at Amherst, Mass., on Central Vermont R. R. (New London Northern Div.) and Boston & Maine R. R. (Central Mass. Div.).

CAPACITY, 7,000,000 Annually.

Address, MARCY & GARDNER,
PALMER, MASS.

NEW YORK
ARCHITECTURAL TERRA COTTA
COMPANY.

OFFICE,
38 PARK ROW,
New York City.

WORKS,
LONG ISLAND CITY,
New York.

GENERAL AGENTS FOR NEW ENGLAND:
BOSTON FIRE BRICK COMPANY,
Fiske, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.

STEPHENS, ARMSTRONG & CONKLING,
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, Philadelphia, Pa.

— INDIANAPOLIS —
TERRA-COTTA CO.

Works: Brightwood, Ind.
ESTIMATES ON SPECIAL DESIGNS PROMPTLY
FURNISHED. WRITE FOR CATALOGUE
AND DISCOUNTS.
SEMI-GLAZE OR DEAD-FINISH.
ALL COLORS.

POMPEIIAN,
BUFF AND RED PRESSED,
ALSO ORNAMENTAL

FACE BRICK MANTELS.

CAPACITY, 100,000,000 PER ANNUM.

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

FRONT BRICKS
— AND —
TERRA-COTTA

— IN OVER TWENTY COLORS. —

Chimney Flue Linings, Chimney Tops, Drain
Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,
86 WATER STREET. - - BOSTON.

THE
Northwestern Terra-Cotta Co.
Manufacturers of

Architectural Terra-Cotta.

WORKS & MAIN OFFICE:
Cor. Clybourn & Wright-
wood Avenues.

CITY OFFICES:
Room 1118 Rookery Bldg.
cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for
Catalogue and Samples.

BRICK OF ANY COLOR
AND
OF ALL SHAPES.



NO. 3 SPANISH.

BALTIMORE ROOFING TILE CO.

BURNS, RUSSELL & CO., Proprietors,

535 Columbia Avenue, Baltimore, Md.,

MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other
styles of Clay Roofing Tiles in all colors,
glazed or unglazed.

CATALOGUE ON APPLICATION.



ROMAN

C. PARDEE WORKS, Perth Amboy, N. J.
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIREPROOF BUILDING MATERIALS, ETC.

THE GENUINE

Taylor **"OLD STYLE"** brand

is the only Warranted
Roofing Tin made.

N. & C. TAYLOR CO., Manufacturers,
[Established 1810.] PHILADELPHIA.

DIXON'S AMERICAN **PENCILS**
GRAPHITE
FOR DRAUGHTING.

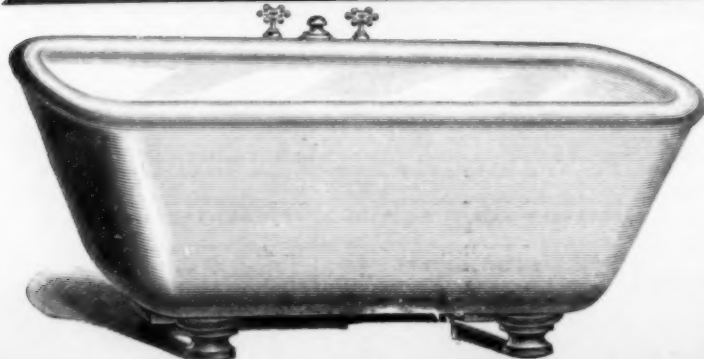
By mentioning *American Architect and Building News*, and sending 16 cents
in stamps, you will receive an assortment of draughting pencils worth
double the money, and unequalled for smooth, tough and uniform leads.

JOSEPH DIXON CRUCIBLE CO. - - JERSEY CITY, N. J.

Porcelain Bath Tubs

"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.

"SLUICE" Syphon Jet Water Closet.



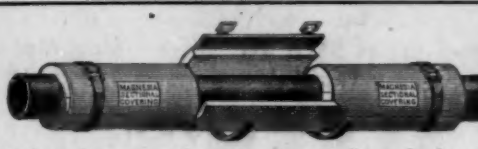
MINTON'S TILES

For Bathrooms, Halls and Vestibules; Glazed,
Unglazed and Enamelled.

MILLER & COATES, 279 PEARL STREET
NEW YORK.

260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.

THE ONLY MEDAL AND AWARD FOR SHINGLE STAINS
At the World's Columbian Exposition
HAS BEEN AWARDED TO
DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.



Magnesia

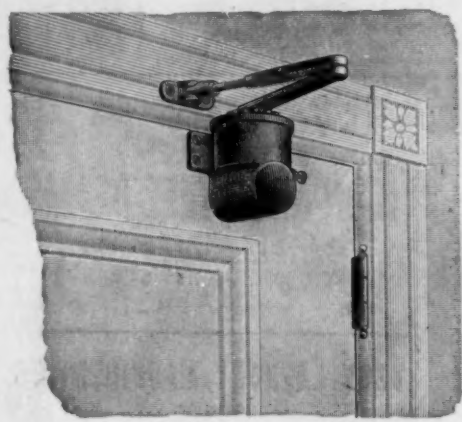
It is the best non-conductor, is fireproof, easily applied, is durable, is moderately priced, is fine appearing; its virtues are as complete as the circle of its section.

THE KEASBEY & MATTISON CO. (Successors to the MAGNESIA SECTIONAL COVERING CO.), Ambler, Pa.
ROBERT A. KEASBEY, 54 Warren Street, New York. S. O. NIGHTINGALE & CHILDS, 134 Pearl Street, Boston, Mass.

PEERLESS COLORS FOR MORTAR.

BLACK, RED, BROWN, BUFF. NEW COLORS, MOSS GREEN, ROYAL PURPLE, FRENCH GREY, POMPEIIAN BUFF, COLONIAL DRAB.
THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.

PLASTER ARCHITECTURAL ORNAMENTS FROM ORIGINAL AND SPECIAL DESIGNS.
SAMUEL H. FRENCH & CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.



BARDSLEY'S DOOR SPRING AND CHECK.

Embodies all the latest improvements, and is the neatest, most perfect in action, and most durable of any in the market. Prices low.

BARDSLEY'S CHECKING SPRING HINGES.

For single or double acting doors. Operate without noise or violence.

BARDSLEY'S WOOD DOOR KNOBS.

The most pleasing and satisfactory in the market. Cannot come loose from the shank. Every Knob warranted. New styles and reduced prices.

SEND FOR NEW PRICE LIST.

J. BARDSLEY,

149 and 151 Baxter Street, NEW YORK.

ALPHABETICAL LIST OF ADVERTISERS.

The (E) indicates that the advertisement may be found in the last or the following issue: the (M) that it may be found in the first issue for each month.

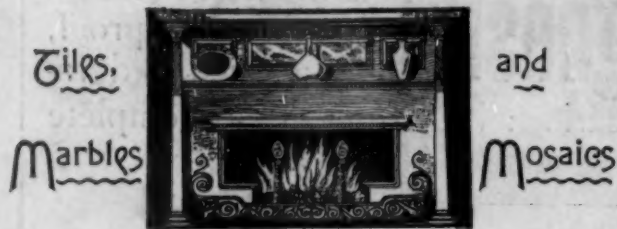
Table with 4 columns (A, E, L, R) listing various companies and their products, including items like 'Abel, C. C. & Co.', 'Elektron Mfg. Co.', 'Lamb & Ritchie', and 'Handolph & Glower'.

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th St.
NEW YORK CITY.

Designers and Manufacturers of...

MANTELS
OPEN FIREPLACES..
GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 55 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.

PRIZE MEDALLISTS.

EXHIBITION OF 1882, 1885, 1887, 1872, 1873, AND ONLY AWARD AND MEDAL FOR NOISELESS, SELF-COLLING STEEL SHUTTERS AT PHILADELPHIA, 1876; PARIS, 1878; AND MELBOURNE, 1881.

CLARK, BUNNETT & CO. (Limited)
Late **CLARK & COMPANY,**

ORIGINAL INVENTORS AND SOLE PATENTERS OF NOISELESS

Self-Colling, Revolving **STEEL SHUTTERS** Fire & Burglar Proof.
Also Improved Rolling Wood Shutters, and Clark's Patent Metallic Venetian Blinds.

The BEST in the Market. Send for Catalogues, etc., to
162 and 164 West 27th St. - New York.

ALSEN'S
PORTLAND CEMENT
(GERMAN.)

The Strongest, Finest Ground and Most Uniform
Cement Made in the World.

The Largest Works and Greatest Production.
U. S. OFFICE, 143 Liberty Street, NEW YORK.



HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.

We invite Correspondence.

Endorsed by the leading Architects and Engineers.

HEAD OFFICE: **GURNEY HEATER MANUFACTURING COMPANY,** 163 Franklin St., Cor. Congress, Boston, Mass.

SELLING AGENCIES. { JOHNSON & Co., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHSEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.

HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.

Send for Catalogues.



JAS. G. WILSON, Patentee and Manufacturer,
74 West 23d St., New York.



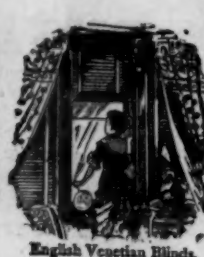
Rolling Steel Shutters.



Rolling Venetian Blinds.



Rolling Partitions.



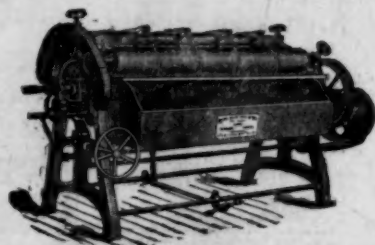
English Venetian Blinds.

I NJ STEEL & IRON CO.]
TRENTON, N.J.]
IRON AND STEEL BEAMS
CHANNELS, ANGLES & TEES
COOPER, HEWITT & CO.
NEW YORK

TROY LAUNDRY MACHINERY CO.
(LIMITED.)

FACTORIES: { 648-650 Fulton St., Troy, N. Y.
305-405 Fifth Ave., Chicago, Ill.

SALESROOMS: { 15 Warren St., New York.
251-263 Mission St., San Francisco, Cal.



Our line the largest and most complete in the world.

Send for Illustrated Catalogue Z.

The Temporary Binder

Provided by us will keep your copies of the American Architect in PERFECTLY uninjured condition.

Price \$1.25 postpaid.



WHEELER'S PATENT WOOD FILLER.

The only Article to give a

DURABLE, ECONOMICAL, NATURAL and PERFECT FINISH to HARD WOOD

Send for Pamphlet Giving Information on Finishing Hard Wood.

THE BRIDGEPORT WOOD-FINISHING CO., NEW MILFORD, CONN.

GRANVILLE M. BREINIG, General Agent and Superintendent. New York Office, 240 Pearl St. Chicago, 206 East Lake St.
New England Agents: Charles Richardson & Co., 85 & 80 Oliver St., Boston, Mass.

At the World's Fair, Chicago, 1893, as at every place ever exhibited, our WHEELER'S PATENT WOOD FILLER and BREINIG'S LITHOGEN SILICATE PAINT received medal and highest awards.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen. Agts.,
Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Masons' Materials.

Send for Pamphlet.

THORN'S
PATENT
METALLIC ROOFING,
Tiles and Spring-lock Shingles.
8 DESIGNS

The best, most handsome, durable and secure roofing plates yet offered to the building trade. Indorsed by all the leading architects. Send for catalogue.

Thorn Shingle and Ornament Co.,

1227 Callowhill St., Philadelphia.

THE AMERICAN ARCHITECT

AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. XLV.—No. 969.]

SATURDAY, JULY 21, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS.
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Kicker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE, B.K. 20M
Louis De Coppet Berg.

PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.

COOPER INSTITUTE.
E. A. Miller.

INSTITUTE OF ARTIST-ARTISANS,
140 West 23d Street.
John Ward Stimson.

METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.
S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Truscott.

UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

[Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.]

CONSTRUCTION.

BERG, LOUIS D'O. Two Vols., each \$5.00
"Safe Building."
New York (66 Fifth Ave.): Macmillan & Co.

CHANDLER, F. W. \$10.00
"Construction Details."
Boston (211 Tremont St.): Heliotype Printing Co.

LARK, T. M. \$3.00
"Building Superintendence." Cuts.
New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts, \$2.00 each.
"Architectural Rendering in Pen and Ink."
Boston (211 Tremont St.).

WARE, WILLIAM R., PROFESSOR, \$5.00
"Modern Perspective."
New York (66 Fifth Ave.): Macmillan & Co.

STYLES.

GOTCH, J. A., and W. T. BROWN 6 Parts, \$48.00
Four Parts now ready
"Architecture of the Renaissance in England."
New York (743 Broadway) Charles Scribner's Sons.

WHITTIER MACHINE CO.,

ELEVATORS,

53 STATE STREET - - BOSTON.

93 LIBERTY STREET, NEW YORK.

526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD

For all kinds of
PASSENGER AND FREIGHT ELEVATOR SERVICE.

OTIS BROTHERS & CO.,
NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,
ELEVATOR AND MACHINE WORKS,
COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.

STEAM AND HYDRAULIC,
For Freight and Passenger use.

ELECTRIC ELEVATORS.
THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,
For passenger and freight service.

Large experience. Many in use.

First cost moderate.

Running Expense much less than Hydraulic.
Also makers of low-speed Perret Electric Motors and Dynamos.

General office and factory, Springfield, Mass.

NEW YORK OFFICE, 126 Liberty Street.

BOSTON OFFICE, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES,

For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate. References, Principal Architects and Decorators of New York.

AESCHLIMANN & PELLARIN,

37 CLINTON PLACE,

Between Broadway and University Place, New York.

SANITARY CONDITION OF

DWELLINGS examined by T. H. DUGGAN,
Plumber, 141 DARTMOUTH STREET, BOSTON.
Fine Plumbing Materials. First-class Workmanship.
Telephone call, Tremont No. 165.

F. O. NORTON CEMENT CO.,

Manufacturer of HYDRAULIC CEMENT.
Certificates of Tests and Reports on actual use furnished on application. 92 BROADWAY, N. Y.

STANDARD ELEVATOR CO.,

HIGHEST GRADE

PASSENGER } ELEVATORS.
AND
FREIGHT }

OFFICE AND WORKS,

15th Street and Ashland Ave.,

Chicago, Ill.

PENNELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.
PASSENGER AND FREIGHT ELEVATORS,
every description.
See our new Electric and Hydraulic before purchasing.
Works, Bloomsburgh, Pa.
Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.

GENERAL OFFICE, PALMER, MASS.

We contract to perform all labor and furnish all material of the different classes required to build complete

CHURCHES, HOTELS, MILLS, PUBLIC BUILDINGS AND RESIDENCES.

Also for the construction of RAILROADS, DAMS AND BRIDGES.

We solicit correspondence with those wishing to place the construction of any proposed new work under one contract, which shall include all branches connected with the work. To such parties we will furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO.,

STAINED GLASS & DECORATIVE WORK.

Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.

Sole Agents for

CLAYTON & BELL, GLASS STAINERS, LONDON.
61 Washington Square, South, New York, N. Y.

TIFFANY GLASS & DECORATING COMPANY.

FURNISHERS OF GLASS WORKERS DOMESTIC & ECCLESIASTICAL.

DECORATIONS. G.D. MEMORIALS.

333 TO 341 FOURTH AVENUE, NEW YORK.

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHER & Co.),

Importers and Workers of

MARBLE, ONYX AND GRANITE,

425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

ROBERT C. FISHER & CO.,

Successors to FISHER & BIRD,

MARBLE AND GRANITE WORKS,

97, 99, 101 and 103 EAST HOUTSON STREET,

Established 1830.

NEW YORK

THERE is but one way in the world to be sure of having the best paint, and that is to use only a well-established brand of strictly pure white lead, pure linseed oil, and pure colors.*

The following brands are standard "Old Dutch" process, and are always absolutely

Strictly Pure White Lead

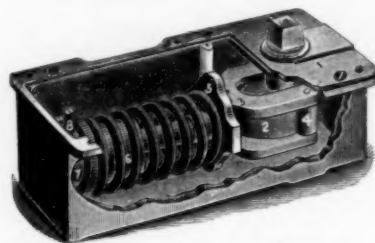
- | | |
|-------------------------------------|--------------------------------------|
| "ANCHOR" (Cincinnati). | "JEWETT" (New York). |
| "ARMSTRONG & McKELVY" (Pittsburgh). | "KENTUCKY" (Louisville). |
| "ATLANTIC" (New York). | "JOHN T. LEWIS & BROS. CO." (Phila.) |
| "BEYMER-BAUMAN" (Pittsburgh). | "MORLEY" (Cleveland). |
| "BRADLEY" (New York). | "MISSOURI" (St. Louis). |
| "BROOKLYN" (New York). | "RED SEAL" (St. Louis). |
| "COLLIER" (St. Louis). | "SALEM" (Salem, Mass.). |
| "CORNELL" (Buffalo). | "SHIPMAN" (Chicago). |
| "DAVIS-CHAMBERS" (Pittsburgh). | "SOUTHERN" (St. Louis and Chicago). |
| "ECKSTEIN" (Cincinnati). | "ULSTER" (New York). |
| "FAHNESTOCK" (Pittsburgh). | "UNION" (New York). |

*If you want colored paint, tint any of the above strictly pure leads with National Lead Co.'s Pure White Lead Tinting Colors.

These colors are sold in one-pound cans, each can being sufficient to tint 25 pounds of Strictly Pure White Lead the desired shade; they are in no sense ready-mixed paints, but a combination of perfectly pure colors in the handiest form to tint Strictly Pure White Lead.

Send us a postal card and get our book on paints and color-card, free.

NATIONAL LEAD CO., New York.



Checking Spring Hinges,

For SWING DOORS.

APPLIED IN FLOOR UNDER DOOR.

They close the door gently, without noise or violence and stop it at once at the centre. Doors can not sag. Springs do not break or set.

J. BARDSLEY,

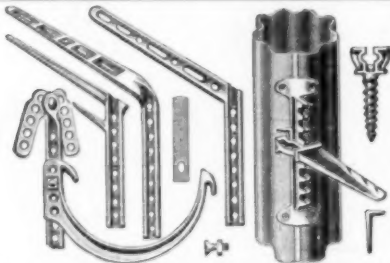
149-151 Baxter St., - NEW YORK.

Illustrated Price-list on application.

RITCHIE'S PATENT CORRUGATED EXPANDING CONDUCTOR.

(See our advertisement last week.)

LAMB & RITCHIE, Cambridgeport, Mass.



THE BEST EAVE TROUGH HANGERS AND PIPE FASTENERS ON EARTH.

Also BERGER'S LONG EAVE GUTTERS, PIPE HOOKS AND FASTENERS of every description, RIDGING CRISTINGS, FINIALS, REGISTERS AND VENTILATORS, and samples and catalogues free.

BERGER BROS.

227 Arch Street, Philadelphia, Pa.

PORCELAIN LINED REFRIGERATORS

and Cooling Rooms under the Wickes System.

Mechanical Refrigeration under the Westinghouse System.

WICKES REFRIGERATOR COMPANY,
860 Broadway, N. Y.



Unequaled for all purposes for which Portland Cement is used. Tests and Testimonials of Engineers, and "How to Use Portland Cement," sent free on application.

BUCKEYE PORTLAND CEMENT CO.,
BELLEFONTAINE, OHIO.

WOOD-CARPET BORDERS FOR RUGS

THE VERY BEST MATERIAL FOR

Also for Covering Parlors, Dining, Sitting and Bath Rooms, Libraries, Offices, Stairs, Stores, etc. Send stamp for Book of Designs.

E. B. MOORE & CO., 48 Randolph Street, Chicago, Ill.

GRAVES ELEVATORS

SAFETY, SPEED AND ECONOMY COMBINED

NEW YORK
92 & 94 LIBERTY ST.
BOSTON
53 STATE ST.
DETROIT
HODGES BUILDING
ATLANTA, GA.
INMAN BUILDING

GRAVES ELEVATOR CO.
ROCHESTER, N.Y.
SEND FOR CATALOGUE.

BUILDING MATERIALS.

	New York.	Boston.	Chicago.	Philadelphia.
(Wholesale Prices.) (Prices to Builders and Contractors.)				
Foundation:				
Dimension.....	5 00 @ 100.			
Block.....	4 60 @ perch.			
Rubble.....	1 25 @ 1 50	8 50 @		
Bluestone: (P sq. ft.)				
Sidewalk.....	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in. th. 10 @ 25
Planned.....	50 @ 6 00	@ 75	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow.....	@ 80	80 @ 30		
Kibbe.....	@ 90	90 @ 1 10		
Brown (Connecticut).....	1 00 @ 95	1 25 @ 1 45	1 50 @ cub. ft.	95 @ 1 05
Amherst Ohio.....	90 @ 95	90 @ 1 00	45 @ 50	1 05 @ 1 25
Berlin.....	75 @ 1 00	85 @ 90	45 @ 55	85 @ 95
Belloville.....	80 @ 1 25	80 @ 90	55 @ 65	55 @ 75
New Brunswick (Dorchester).....	@ 1 00	25 @ 1 35	@ 1 25	85 @ 95
Caen.....	@ 1 00	75 @ 90		1 00 @ 1 10
Carlisle, English.....	@ 1 05	@ 2 00		1 05 @ 1 15
Corse Hill (Scotch).....	@ 1 05	@ 1 05		1 25 @ 1 35
Marble: (P cu. ft.)				
Lee, Mass.....	@ 1 05	@ 1 05		95 @ 1 05
Rutland, white and blue.....		1 75 @ 2 50	Not Sold.	2 00 @ 2 50
Sutherland Falls.....	1 25 @ 1 75	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Glens Falls, black.....		@ 2 50	3 50 @ 6 00	1 70 @ 3 00
Italian, blue-veined.....			Not Sold.	4 00 @ 4 50
Sienna.....			@ 4 40	2 50 @ 2 75
Tennessee, red.....			Not Sold.	@ 5 00
Knoxville.....			@ 4 40	4 00 @ 6 00
Pennsylvania, blue.....			@ 4 40	3 00 @ 4 00
Vermont, white.....			Not Sold.	2 00 @ 3 00
Slate: Roofing (P square).			3 50 @ 6 00	2 25 @ 3 00
green.....	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
unfading.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
purple.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
red.....	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
black, Lehigh.....	4 25 @ 4 75	@	6 25 @ 6 85	25 @ 4 00
Chapmans.....	6 00 @ 8 50	6 00 @ 8 50	7 30 @ 8 00	00 @ 4 65
Unfading black, Brownville, Me.....	5 50 @ 8 00	5 50 @ 8 00	6 80 @ 9 50	6 80 @ 8 60
Monson.....			6 00 @ 9 00	5 50 @ 8 00
Tiles, Am. P. M.			Not Sold.	@ 25 00
N. Peach Bottom, warranted unfading.....			@	6 00 @ 6 75
Fire Clay Roofing Tile on cars at factory.....	8 00 @	8 00 @	8 00 @	8 00 @
PAINTS. (In oil P lb.)				
White lead, Am.....	7 @ 7 1/2	6 @ 6 1/2	7 @ 7 1/2	@ 7 1/2
zinc.....	5 @ 8 1/2	@ 8	5 @ 10 1/2	@ 7
Red lead, Am.....	6 1/2 @ 7	6 @ 6 1/2	6 1/2 @ 7	dry Eng. @ 7 1/2
Venetian.....	6 @ 10 1/2	7 @ 12	1 1/2 @ 2 1/2	Eng. @ 7
Vermillion.....	65 @ 70	60 @ 65 dry	65 @ 68	dry Am. @ 1 1/2
Indian, Eng.....	12 @ 20	12 @ 20	12 @ 20	@ 18
Yellow Ochre.....	12 @ 20	7 @ 12	3 @ 15	@ 21
Green (chrome).....	8 @ 13	18 @ 25	15 @ 25	@ 20
Green, Paris.....	25 @ 40	8 @ 20	8 @ 30	15 @ 20
Black, lamp.....	15 @ 25	25 @ 30	18 @ 35	8 @ 12
Blue, ultramarine.....	12 @ 18	15 @ 25	12 @ 35	10 @ 24
Oil, linseed, (raw).....	55 @ 62	56 @ 58	57 @ 60	@ 60
boiled.....	58 @ 65	59 @ 61	60 @ 63	@ 63
Turpentine.....	36 @ 37	@ 36	40 @ 42	@ 44
Varnish, coach.....	@	1 50 @ 6 00	1 25 @ 2 00	1 25 @ 3 00
Shellac.....	@	2 50 @ 3 00	2 25 @ 4 00	1 50 @ 3 00
Putty.....	2 @ 4	2 @ 4	2 @ 4	2 @ 2 1/2
Whiting.....	75 @ 1 00	1 @ 1 1/2	1 @ 1 1/2	1 @ 1 1/2
Paris white, (Eng.).....	1 30 @ 2 00	1 1/2 @ 2	1 1/2 @ 2	1 1/2 @ 2
Litharge, Am.....	5 1/2 @ 6	6 @ 6 1/2	6 1/2 @ 7	@ 7 1/2
Sienna (burnt).....	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber.....	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought.)	@ 2 85	@	2 35 @ 3 50	per keg @ 2 25
10d. common.....	@ 2 60	@ 2 00	@ 1 70	@ 2 30
Shingle.....	@ 3 35	@ 2 40	@ 2 10	@ 2 60
Lath.....	@ 4 85	@ 3 10	@ 2 80	3 60 @ 4 75
(Finishing nails according to size.)	@	@	Add .50 to \$1.90	per lb 4 @ 6
(For casing nails add 75 c. per keg.)	@	@	40 to .50	Add per cask
Butts: 4" x 4".....	@	@	@	2 90 (all kinds.)
Plain.....	@ 1 00	@ 85	@ 90	@ 90
Japanned.....	@ 1 50	@ 1 25	Not Sold.	1 35 @ 2 00
Acorn, Japanned.....	@ 1 50	@ 1 50	2 00 @ 3 75	1 35 @ 2 75
Rail Tip, Boston Finish.....	@ 65	@ 40	Not Sold.	48 @ 50
Bronze metal.....	@ 1 90	plain 1 25	2 00 @ 3 25	@ 1 25
Brass (for cupboards).....	@ 10	@ 10	@ 12	@ 1 00
Ebony.....	@	@	@	@ 35
Apple wood.....	@	@	@	37 @ 1 00
Knobs: (P set.)				
Mineral, best.....	@ 8	@ 8	8 @ 10	@ 08
Lava.....	@ 50	@ 75	65 @ 80	Not Sold.
Hemacite.....	Not Sold.	17 @ 33	31 @ 40	25 @ 50
Porcelain.....	@ 30	@ 10	25 @ 30	@ 25
Glass, solid.....	Not Sold.	@ 50	Not Sold.	1 00 @ 2 50
Glass, silvered.....	88 @ 1 00	@ 1 50	@ 1 50	1 75 @ 2 00
Bronze metal.....	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass.....	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:				
Sheet Lead.....	@	@ 6 1/2	14 @ 16	13 1/2 @ 16
Lead Pipe.....	@	@ 8 1/2	8 1/2 @ 7	@ 6 1/2
Iron:				
I-Beams, up to and including 30 ft.....	3 30 @ 3 1/2	@ 2 50	@	@ 3 8-10
do. over 30 ft., 1/2 c. adv. for every 5 ft.	@	@ 2 50	2 50 @ 2 75	@ 3 8-10
Channel Beams.....	3 30 @ 3 1/2	@ 2 50	50 @ 2 75	@ 3 8-10

**FIDELITY
RANGE.**

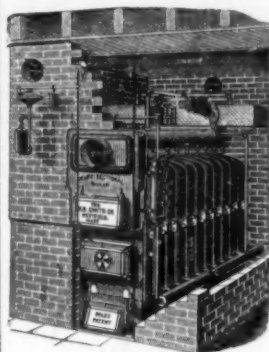
Pat. Apr. 20, 1890.

ELEVATED BOILER, Plain
or Hot Air, Right
or Left Hand, with or
without Hot Closets.
Just the thing for Flats
and Small Houses.

Send for circulars.

Isaac A. Sheppard & Co.
PHILADELPHIA
or BALTIMORE.

WM. KERBY, Agt.
4 Peck Slip, New York.



Gold's Boiler.

The H. B. SMITH CO., MANUFACTURERS OF HEATING APPARATUS Steam and Water

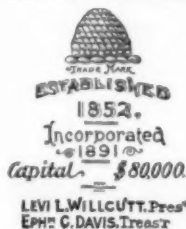
For Public Buildings and Private Residences.

SPECIALTIES:

GOLD'S Improved Sectional Boilers.
MILLS'S Safety Sectional Boilers.
MERCER'S Patent Improved Sectional Boilers.
REED'S Improved Cast-Iron Radiators,
"THE UNION" Hot-Water Radiators.
BRECKENRIDGE'S Patent Automatic Air Valves.
GOLD'S Indirect Pin Radiators.

Office & Warerooms, 137 Center Street, New York.

Foundry, Westfield, Mass. Catalogues sent on application.



NEW ENGLAND FELT ROOFING WORKS.

42 MILK ST., BOSTON.

Originators of Felt Roof-
ing in New England.

Inventors and only Manu-
facturers of the Celebrated

"BEEHIVE BRAND."**FOR INFORMATION ABOUT**

U. S. MAIL CHUTES

WHICH ARE

A necessity in Office Buildings and Hotels.

write to the sole makers,

THE CUTLER MFG. CO., ROCHESTER, N. Y.

PATENTED. AUTHORIZED.

Galvanized Steel Shingles

DIFFERENT SIZES AND
DESIGNS.
SAMPLES FREE.

PRICES LOW.

CORTRIGHT

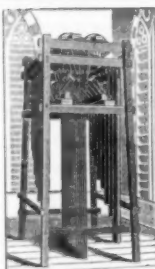
METAL ROOFING CO.

Broad & Hamilton Sts.

Philada., Pa.

134 Van Buren Street,

Chicago, Ills.



TUBULAR CHIME BELLS

Harrington Patents.

Established in England.
Introduced here.

Lighter in Weight }
Sweeter in Tone }
Cheaper in Price }
Than the ordinary bell }
Catalogue with full descrip-
tion.

U. S. Tubular Bell Co.,
Methuen, Mass.

BURDITT & WILLIAMS,

Representatives of Leading Manufacturers of

BUILDERS' HARDWARE.

Refer to the prominent Architects of Boston,
New York and Washington, as well as to many
of the finest Public Buildings and Residences
in all parts of the United States.

Branch Office, 20 Dock Square,
WASHINGTON, D. C. BOSTON, MASS.



80-Paged Illustrated Catalogue
of over 250 Designs of
Superior

WEATHER VANES,
TOWER ORNAMENTS,
CHURCH CROSSES,
FINIALS, Etc., Etc.

Mailed to any address for 2-cent
stamp—half the postage.

T. W. JONES, Manufacturer,
170-172 FROST ST., New York.

Conservatories, GREENHOUSES, VINERIES,

Shipped to any part of the country, and erected
complete, ready for use.

Plans embrace the latest improvements.

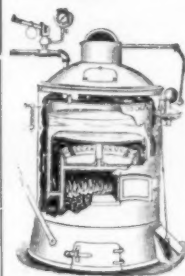
Unequalled facilities for manufacturing. Thirty-five
years' experience. Catalogue sent on application.

Address, stating requirements,

LORD & BURNHAM COMPANY,
IRVINGTON-ON-HUDSON, N. Y.

The "Peerless" STEAM and HOT WATER HEATER.

The Simplest, Cheapest and Best.



Agents Wanted.

MECHANICAL DEPARTMENT, PHILADELPHIA, PA.
The Peerless Boiler that I am using is giving good satisfac-
tion.

JOHN WANAMAKER.

PHILADELPHIA, PA.

DEAR SIR: In answer to yours in relation to the "Peerless"
boiler in the swimming pool at Cheltenham Hills, would say the
boiler has given us **Good Satisfaction** and heats the water
well. As near as I can remember the pool is 14 ft. wide, 58 ft.
long, 7 ft. deep at one end and 4 ft. at the other. We can
raise the temperature of the water to 75° in four hours.

Yours truly,

JOHN WANAMAKER.



HON. JOHN WANAMAKER

For Catalogues, Testimonials, Terms, &c., address

GEO. H. BELL & CO., 41 Dey St., New York City, N. Y.

Sole Agents for the United States.

PROCURE THE BEST by specifying

American Boiler Company HEATING AND
VENTILATING APPARATUS.

FOR STEAM—"AMERICAN," "FLORIDA," "MODERN," "SOLEIL."
FOR WATER—"ADVANCE," "BOLTON," "PERFECT," "LITTLE
GIANT," "SPENCE," "TROPIC."

18 Styles. 174 Sizes.

CAPACITY { STEAM, 100 to 4,200 Square Feet.
WATER, 75 to 7,500 " "

Write for Catalogues and Particulars.

American Boiler Company

"SOLEIL" BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
195 Ft. Hill Sq. 94 Center St. 84 Lake St. 127 6th St.

BUILDING MATERIALS.

Reported for the American Architect and Building News.

	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
LUMBER.—P. M.				
Boards: (Ordinary dimensions.)				
Pine, 1st quality, clear	65 00 @ 75 00	55 00 @ 70 00	42 00 @ 50 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	27 00 @ 38 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	20 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	ea 134 @ 25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock	20 @ 40	23 00 @ 35 00	21 00 @ 34 00	11 25 @ 13 50
Yellow pine	20 @ 40	28 00 @ 40 00	18 00 @ 34 00	14 00 @ 29 00
Cypress	20 @ 40	28 00 @ 40 00	18 00 @ 34 00	14 00 @ 29 00
Clapboards:				
Pine	20 @ 40	38 00 @ 55 00	19 00 @ 22 50	14 00 @ 25 00
Spruce	20 @ 40	23 00 @ 38 00	Not sold.	Not sold.
Framing Timber:				
Pine	14 00 @ 18 00	14 00 @ 17 00	12 00 @ 17 50	25 00 @ 37 30
Spruce	12 00 @ 16 00	13 00 @ 15 00	Not sold.	16 00 @ 18
Hemlock	18 00 @ 21 00	20 00 @ 35 00	10 00 @ 13 00	13 00 @ 17
Yellow pine	18 00 @ 21 00	20 00 @ 35 00	24 00 @ 34 00	22 00 @ 28
Laths:				
Pine	Slab	2 25 @ 2 50	2 @ 2 40	2 75 @ 3
Spruce	1 60 @ 1 70	2 00 @ 2 50	Not sold.	2 30 @ 3 00
Shingles:				
Pine, sawed	5 00 @ 6 00	4 @ 4 50	Not sold.	Not sold.
Pine, sawed	4 00 @ 5 00	3 @ 3 50	2 25 @ 2 50	Not sold.
Spruce, sawed	1 50 @ 2 00	1 50 @ 2 00	Not sold.	Not sold.
Redwood	1 40 @ 1 60	3 25 @ 3 75	6 00 @ 7 50	30 @ 35 @ 40
Cedar split	1 40 @ 1 60	3 25 @ 3 75	6 00 @ 7 50	24 @ 28 @ 32
Cedar sawed	1 40 @ 1 60	3 25 @ 3 75	6 00 @ 7 50	24 @ 28 @ 32
Cypress split	1 40 @ 1 60	3 25 @ 3 75	6 00 @ 7 50	24 @ 28 @ 32
Miscellaneous:				
Piles	4 @ 54	10 00 @ 18 00	Cut to order.	9 00 @ 13 00
Fence pickets, Common	8 00 @ 10 00	25 @ 50	P. 10 00 @ 22 00	40 @ 1 25
Cedar posts, 9 ft. (sq. posts.)	4 @ 54	25 @ 50	9 @ 21	20 @ 30
Chestnut posts	4 @ 54	25 @ 50	Not sold.	Not sold.
Finishing Woods: (Qual. Kiln-dried.)				
Ash	40 00 @ 120 00	45 00 @ 60 00	14 00 @ 30 00	42 50 @ 47 50
Cherry	40 00 @ 60 00	30 00 @ 120 00	35 00 @ 90 00	100 00 @ 120 00
Butternut	40 00 @ 60 00	60 00 @ 70 00	17 00 @ 35 00	70 00 @ 80 00
Hard-pine floors (rift)	40 00 @ 60 00	42 00 @ 50 00	17 00 @ 35 00	70 00 @ 80 00
Mahogany, Baywood (Mexican) St. Domingo	45 00 @ 50 00	120 00 @ 350 00	110 00 @ 170 00	150 00 @ 250 00
Maple	45 00 @ 50 00	45 00 @ 50 00	200 00 @ 250 00	200 00 @ 400 00
Oak, red	45 00 @ 50 00	45 00 @ 50 00	12 00 @ 20 00	25 00 @ 55 00
" white	45 00 @ 50 00	45 00 @ 50 00	17 00 @ 27 00	42 50 @ 55 00
" quartered	45 00 @ 50 00	45 00 @ 50 00	16 00 @ 28 00	45 00 @ 55 00
Sycamore quartered	45 00 @ 50 00	45 00 @ 50 00	34 00 @ 40 00	60 00 @ 75 00
Pine, clear	65 00 @ 70 00	50 00 @ 75 00	33 00 @ 50 00	57 50 @ 65 00
Redwood	60 00 @ 70 00	50 00 @ 70 00	40 00 @ 45 00	60 00 @ 75 00
Rosewood	60 00 @ 70 00	50 00 @ 70 00	40 00 @ 45 00	60 00 @ 75 00
Spruce floorboard, (kiln-dried)	60 00 @ 70 00	50 00 @ 70 00	40 00 @ 45 00	60 00 @ 75 00
Walnut, black	125 00 @ 150 00	85 00 @ 120 00	40 00 @ 75 00	50 00 @ 170 00
Whitewood	45 00 @ 50 00	35 00 @ 45 00	14 00 @ 30 00	25 00 @ 40 00
Yellow pine	45 00 @ 50 00	40 00 @ 42 00	31 00 @ 34 00	42 00 @ 45 00

CLINTON WIRE-CLOTH CO.,

Sole Proprietors and Manufacturers of

WIRE LATH

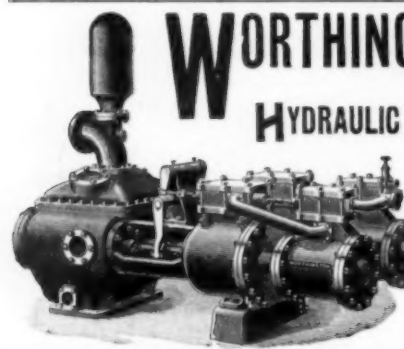
DOUBLE TWIST WARP
STIFFENED (Iron furred)
CLINTON CORRUGATED

Plain, Japanned or Galvanized.

The Most Perfect and Economic System of FIREPROOF Construction.

SEND FOR CIRCULAR.

BOSTON, NEW YORK, CHICAGO, FACTORY,
199 Washington St. 76 Beekman St 137 Lake St. CLINTON, MASS.



WORTHINGTON STEAM PUMPS

ARE THE STANDARD FOR
HYDRAULIC ELEVATOR AND HOUSE SERVICE.

Send for New Illustrated Catalogue.

Henry R. Worthington,
NEW YORK, 86 & 88 Liberty St.
BOSTON, 70 Kilby St.
PHILADELPHIA, 607 Arch St.
CLEVELAND, 24 South Water St.
CHICAGO, 185 to 189 Van Buren St.
ST. LOUIS, Eighth & St. Charles Sts.

Welded Chrome Steel and Iron. (5 ply)



FOR SAFES AND VAULTS

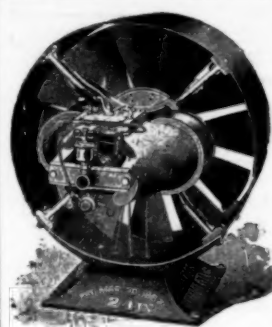
We are the only manufacturers of Chrome Steel in the United States.

None genuine unless stamped with our Trade Mark.

Positively Burglar-proof, cannot be Cut, Sawed, or Drilled,

CHROME STEEL WORKS, Brooklyn, N. Y.

BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
BRICK.—P. M.	(Wholesale)	(Prices.)	(Prices to Builders and Contractors.)	(In Yard.)
Common: Cargo afloat.				
Pale.....	1 25 @ 2 00		Building Brick	Sq. Hard @ 9 00
Jersey.....	3 75 @ 4 25		@ 5 50	" @ 7 00
Long Island.....	@	Domestic Com.		Salmon @ 5 00
Up River.....	4 00 @ 5 00	8 50 @ 9 50		Sq. " @ 9 00
Haverstraw Bay 2d.....	4 25 @ 4 50	Domestic Face	Indiana Pressed	Light Stretchers
" 1st.....	5 75 @ 5 00	18 00 @ 25 00	14 00 @ 20 00	" @ 10 00
Hollow.....	@ 13 00	Philadelphia	St. Louis Fronts	Medium " @ 12 00
Fronts:		35 00 @ 40 00	@ 27 00	Red " @ 13 00
Croton, Brown.....	9 00 @ 12 00	Phila. mould		Dark " @ 13 00
" dark.....	10 00 @ 13 00	50 00 @ 80 00		Pressed " @ 13 00
" red.....	10 00 @ 13 00			18 00 @ 20 00
Chicago pressed (Anderson).....		Enamelled B'k.	15 00 @ 27 00	Best Paving @ 14 00
" Moulded.....		Imported.	65 00 @ 350 00	Second " @ 13 00
Baltimore.....	37 00 @ 41 00	Enam. (edge)	@ 55 00	Third " @ 12 00
Philadelphia.....	22 00 @ 23 00	" 95 00 @ 105 00	45 00 @ 50 00	Dom. " @ 65
Trenton.....	@ 19 00	" (edge & end)	45 00 @	@ 82
Milwaukee.....		115 00 @ 120 00	25 00 @	
Moulded:		Domestic.	60 00 @ 100 00	
Glens Falls Red Pressed.....	@ 37 00	Enam. (edge)	30 @ 315	
" " Buff.....	@ 30 00	" 90 00 @ 100 00	35 @	
" " Moulded Red & Buff	45 00 @ 70 00	" (edge & end)	55 00 @ 65 00	
Enamelled: Imp.		110 00 @ 115 00	@ 100 00	
Enamelled (edge).....	85 00 @ 100 00		@ 120 00	
Enamelled (edge and end).....	90 00 @ 115 00			
CEMENT, LIME, etc.—(P. cubic.)				
Rosendale Cement.....	85 @ 1 10	1 15 @ 1 25	Not sold.	1 30 @ 1 50
Louisville.....		Brooks, S. & Co.	1 05 @ 1 15	BS&Co 2 75 @ 3 00
Utica, Akron, Buffalo, Milw'kee.	Not sold.	2 40 @ 2 75	1 00 @ 1 10	2 85 @ 3 25
Portland, English (Gibbs).....	2 25 @ 2 50	2 40 @ 2 75	3 00 @ 3 10	2 85 @ 3 15
" " (R. B. & S.).....	2 50 @ 3 00	2 40 @ 2 75	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross.....	2 25 @ 2 50	2 40 @ 2 75	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham).....	2 50 @ 2 50	2 40 @ 2 75	2 90 @ 3 15	2 75 @ 2 85
" " (White's).....	2 65 @ 3 00	2 40 @ 2 75	3 00 @ 3 25	
" " French (Lafarge).....	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	
" " German (Alsen).....	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	Hemmoor 2 50 @ 2 75
" " (Fewer).....	2 25 @ 2 40		3 20 @ 3 40	2 75 @ 2 85
" " (Vorwöhler).....	2 50 @ 2 90			
" " (Lagerhofer).....	@	Cleopatra	2 75 @ 3 00	Josson 2 60 @ 2 75
" " (Dyckerhoff).....	2 60 @ 2 90	3 00 @ 3 50	3 25 @ 3 50	3 00 @ 3 25
" " (Hanover).....	2 50 @ 3 00	Not Sold.	Not sold.	2 75 @ 2 85
" " Stettin (Anchor)	2 35 @ 2 85	" "	Not sold.	
" " American (Saylor's).....	2 15 @ 2 25	" "	2 00 @ 2 70	2 70 @ 3 00
Roman.....	2 75 @ 3 00	@ 3 50	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse.....	4 50 @ 5 30	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine.....	5 00 @ 5 50	7 00 @ 9 00	9 00 @ 10 50	8 00 @ 9 00
Lime:				
Lime of Teil.....	3 50 @ 4 00		Not sold.	White Lime 25 @ 30
Hydraulic Lime.....	@ 1 45	@	60 @ 70	White Mash 1 25 @ 1 50
Chicago Lime in bulk.....	St. John	St. John 90	Not sold.	1 00 @ 1 00
Wisconsin Lime.....	@ 85	@ 95	Not sold.	
Rockland and Rockport, (Com.).....	@ 90	@ 1 00	Not sold.	
Rockland and Rockport, finish.....	@ 1 00	@	1 00 bulk, 75c.	
Kelley Island Lime, finish.....	@	Not sold.	Not sold.	
State, com. cargo rates (nom.).....	@ 80	Not sold.	Not sold.	
State, finishing.....	1 05 @ 1 10	Not sold.	Not sold.	
Plaster of Paris (alcined).....	1 40 @ 1 50	1 85 @ 2 00	1 85 @ 1 90	Not sold.
" (casting).....	@ 1 60	@ 2 25	1 85 @ 1 90	1 50 @ 2 25
Hair (Cattle) P. bush.....	18 @ 21	25 @ 30	16 @ 20	1 75 @ 2 50
" (Goat).....	21 @ 25	@ 30	30 @ 35	20 @ 25
Sand, P. load.....	1 00 @ 1 25	1 75 @ 1 90	@ 60	30 @ 35
STONE. (P. cubic foot, rough.)				@ 1 50
Granite: (Maine)		@ 60		
Limestone:				
Bedford.....	45 @ 1 25	95 @ 1 00	50 @	75 @ 85
Joliet.....	@ 1 00		35 @ 55	Richmond 75 @ 1 50
Lemont.....			3 @ 60	Parch 4 50 @ 5 50
Serpentine.....		10 50 per ton	@ 1 00	



KEEP COOL
BY USING
THE SMITH
VENTILATING
FAN.

KEEP WARM
BY USING
THE SMITH
HOT BLAST
APPARATUS.

Both Manufactured by
THE HUYETT & SMITH MFG. COMPANY,
Heating and Ventilating Engineers,
DETROIT, MICH.

Write for Catalogue, mentioning this paper.



P. SEIBIRE & SONS,
NURSERYMEN.
A GENERAL ASSORTMENT OF
FRUIT TREE STOCKS, MAHALED CHERRY, SMALL EVERGREENS,
SUCH AS APPLE, PEAR, MAHALED CHERRY, SMALL EVERGREENS,
MYROBOLAN PLUM, FOREST TREES, ORNAMENTAL
SHRUBS, ROSES, ETC.
THE LARGEST STOCK IN THE COUNTRY. FRUIT TREES FOR THE U.S. AND CANADA.
C.C. ABEL & CO. P.O. Box 320, New York.

McCray Refrigerator and Cold Storage Co.,

Cooling Rooms for public Institutions, Hotels,
Fine Residences, Groceries, and
Meat Markets.

KENDALLVILLE, IND.

Drawing-Office.

Drawings rendered in line or
color with reasonable despatch.

ADDRESS
Editors of the American Architect.

CATALOGUE

FOR 1894 OF
Architectural Books.

SEND FOR CLEARANCE CIRCULAR.

WM. T. COMSTOCK, Pub., 23 Warren St., N. Y.

Heliotype Printing Co.,

211 Tremont Street, Boston.

ESTABLISHED 1872.

- PHOTO-LITHOGRAPH.
- PHOTO-COLOR-LITHOGRAPH.
- PHOTO-GELATINE.
- PHOTO-GRAVURE.
- PHOTO-ENGRAVING.

COPIES OF ARCHITECTURAL,
MECHANICAL AND OTHER
DRAWINGS, MAPS, PLANS, ETC.,
PORTRAITS, VIEWS AND ALL
BOOK ILLUSTRATIONS.

Heliotype Printing Co.

CABOT'S

CREOSOTE

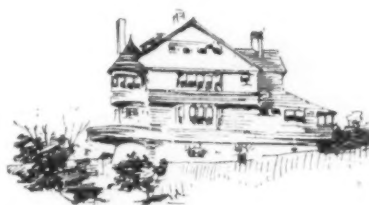
SHINGLE

STAINS



Loring & Phipps Arch'ts Boston

Don't specify paint for shingles; it isn't artistic. Don't specify a Stain that will turn black in a few years, because it looks dirty and you have to paint it over to change the color. Specify a stain that will hold its color and grow old gracefully—like Cabot's, which was the first shingle stain ever made, and is now, as always, first in durability, first in economy, and first in favor with those who have used it. *Every gallon guaranteed.*

SUMMER COTTAGE
THOUSAND ISLANDS
FOR J. P. PARSONS

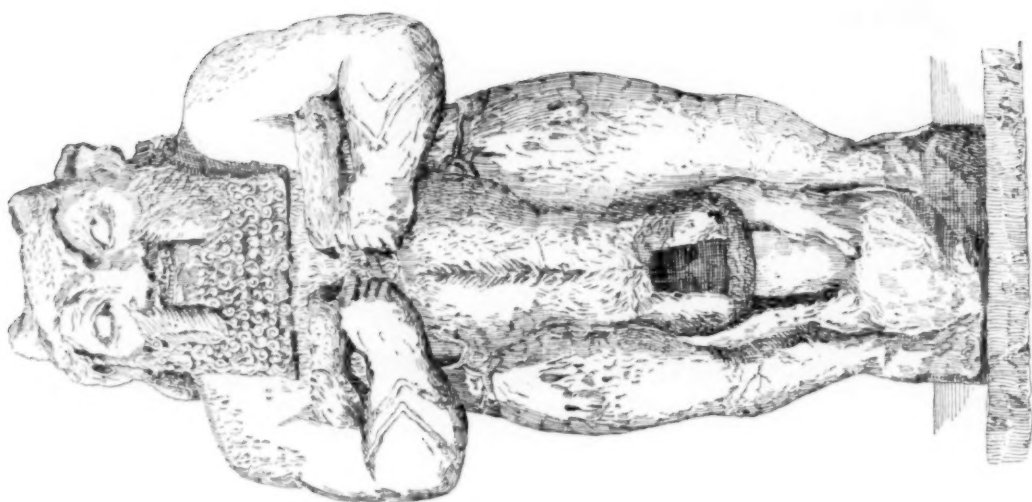
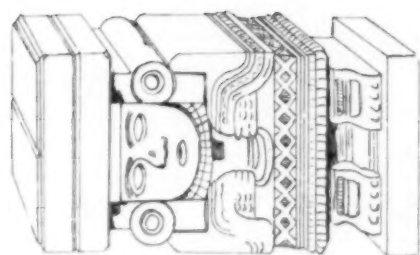
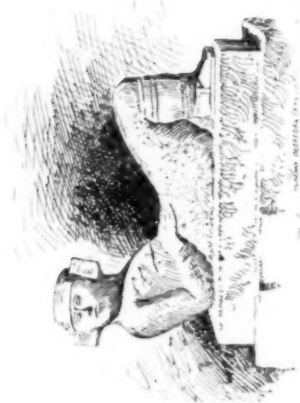
Large or small wood samples, circulars and water-color reproductions of color schemes, sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

Agents at all Central Points. **70 Kilby St., BOSTON, MASS.**



Huitzilopochtli, the Mexican War God.

Colossus of Amathonte, Phenicia.
4 m. 20 high. 2 m. across shoulders.Chalchihuitlicue, the Mexican
Goddess of Water.Disc formerly used in the Mexican
Game of Pelote.

The so-called "Chac-Mool," Mexico.

BARBARIC SCULPTURE.

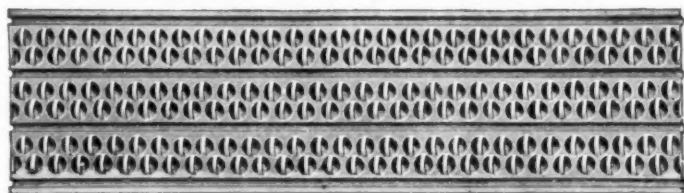
JOHN WILLIAMS, 544 to 556 West 27th Street, New York.
WROUGHT IRON AND BRASS WORK TO SPECIAL DESIGNS ONLY.
 REFERENCES: Tiffany & Co., N. Y.; Cottier & Co., N. Y.; L. Marcotte & Co., N. Y.; McKim, Mead & White, N. Y.; Babb, Cook & Willard, N. Y.; Bruce Price, N. Y.; R. M. Hunt, N. Y.; Bailey, Banks & Biddle, Phila.; Frank Hill Smith, Boston.; A. H. Davenport, Boston.



MERCHANT & CO., INCORPORATED, Sole Manufacturers.



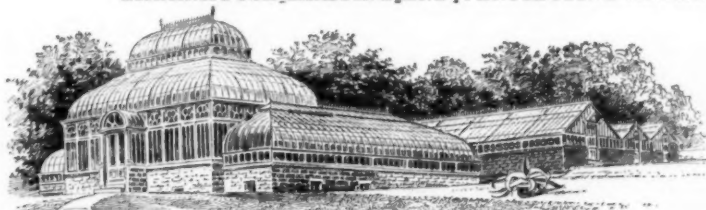
"Piqua" Steel Lath.



"Piqua" Lath is made from the best quality of steel, in sheets 27 1/4 x 48 inches, and each sheet covers exactly one square yard of surface. The corrugations shown in cut are 3 3/4 inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.

HITCHINGS & CO., Established 50 years.
 HORTICULTURAL ARCHITECTS AND BUILDERS
 and largest Manufacturers of
GREENHOUSE HEATING AND VENTILATING APPARATUS.



Conservatories, Greenhouses, Palm Houses, etc., erected complete with our patent Iron Frame Construction. Plans and Estimates of cost and illustrated catalogues sent on application.

233 MERCER STREET, N. Y.

THE METALLIC WINDOW SCREEN MFG. CO.,

Successors to F. O. Snow & Co.,

Patent Metallic Sliding Window Screens,

Wood Screens and Screen Doors.
 Window Shades, Awnings and Weather Strips.

SPECIALTY—FINE WORK.

465 Washington St., Boston, Mass.

James A. Miller & Bro.

Slate
 Tin
 Tile and Iron

Roofers . . .

Galvanized Iron and Copper

Cornices, Bays
 Skylights, etc.



Special Attention . . .
 to Large First-class Work
 Fully Guaranteed.

Our facilities, resources and experience are such that we feel able to compete for large work in our line, almost anywhere in the United States, and will be particularly pleased to do so now when there is so little work going on in this city.

129-131 South Clinton Street,
 Chicago.

Architects, Builders, and others will confer a favor on the Publishers by mentioning "The American Architect and Building News" when sending for circulars or corresponding with parties advertising in these columns.



NATIONAL Fine Art Foundry,

218 East 25th Street, New York.

Artists' Models cast in Standard Bronze

Architects' Designs Executed.

Artistic and Enduring Monuments

in Granite and Bronze.

No Catalogues.

MAURICE J. POWER.



SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.**Slate, Copper, Tin and Gravel Roofing.****Nos. 20 and 22 EAST STREET, BOSTON.**Order Box at Master Builders Association,
164 Devonshire Street.Special attention given to Repairs
of all kinds.

Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs, acknowledged to be the strongest method in use, and has been applied to many of the best constructed and largest buildings in this country.

*Contracts made for Work wherever desired.***PASSENGER
AND
FREIGHT
ELEVATORS****Morse, Williams & Co.,
Electric and Hydraulic High Speed
Passenger Elevators.**Steam, Belt and Hand Power Freight Elevators.
1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.
19 Pearl St., Boston. 82 Church St., New Haven.
714 Omaha Building, Chicago. 1116 E. St. N. W., Washington, D. C.**Decorative
Glass and
Sand Blast
Work.****THE MATTHEWS DECORATIVE GLASS CO.**
MANUFACTURERS OF
ORNAMENTAL GLASS in Sheets or from Special Design
By the SAND-BLAST and other Patented processes.
CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,
Gold and Silver Embossed, and Transparent Glass Signs. Marbleized Glass
for Ceilings. Estimates promptly furnished on application.
328-330 E. 26th Street, New York City.**ASPHALT ROOFING AND PAVING
MATERIALS.**

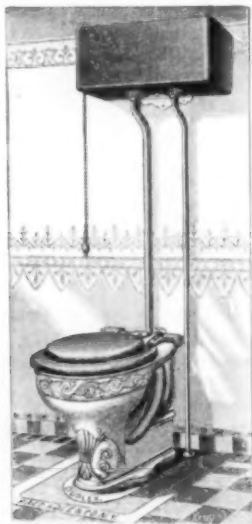
WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.

Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO. 81 & 83 Fulton Street, NEW YORK, U. S. A.

**JACKSON VENTILATING CRATES**each heat two or more rooms on one or different
floors, in coldest weather.*Send for Catalogue B.*

EDWIN A. JACKSON & BRO., 50 Beekman Street, New York.

**STAMPED STEEL
CEILINGS****MANY
DESIGNS
H. S. NORTHROP**
Manufacturers,
30 ROSE ST.
NEW YORK**YALE LOCKS****"DUPLUX"****THE BEST WATER CLOSET****IN THE WORLD***Quiet in Operation,
Positive in Action,
Elegant in Appearance
—AND—
Sanitarily Perfect.***FRED. ADEE & CO.,
90 BEEKMAN ST.,
NEW YORK.****BLACKCROSS PORTLAND CEMENT**

IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,IMPORTERS ROMAN, KEENE'S, VICAT CEMENTS, 23 Liberty Street, NEW YORK.
ENGLISH GLAZED BRICKS.**ASPHALT FLOORS,
ROOFS,
SIDEWALKS AND CARRIAGE-WAYS**Of Public Buildings, Hospitals,
Warehouses, Stables, Cellars, etc.Laid with VAL de TRAVERS ROCK ASPHALT,
DURABLE, FIREPROOF AND IMPERVIOUS.

For estimates and list of works executed, apply to

THE NEUCHÂTEL ASPHALT CO., Limited,
265 BROADWAY, - - - NEW YORK.**Brown's Patent Seamless
DRAWN COPPER HOUSE BOILERS.**Cannot collapse.
Will not leak.
Ordinary boiler tested to 200 lbs.
Extra heavy tested to 300 lbs.
Made of two seamless drawn copper shells.
Handsome, best and strongest
in the market.
Send for circular giving instructions
for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES,
Waterbury, Conn.Western Depot: 71 West Washington
St., Chicago. Branch Offices: 104
John St., New York; Room 320 Philadelphia Bank Building, Philadelphia;
99 Milk St., Boston; Room 208, Neave
Building, Cincinnati.

Proprietors of the Brown & Bros. Tubing and Boiler Works, and the Brown & Bros. Brass and Copper Rolling Mills.

Makers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

**THE JENKINS
AUTOMATIC AIR VALVE**Has proved to be all we
claimed for it—i. e., a
Positive and Reliable
Air Valve. The expand-
able plug is a special
compound, and man-
ufactured expressly
for use in the Jenkins'
Automatic Air
Valve. It does not
deteriorate or lose its flexibility under the action of
heat or steam. With the Jenkins' Automatic
Air Valve, you should connect with a drip
pipe, thus insuring a positive circulation. We
guarantee them to be as represented. Our Trade
Mark is on every valve.**JENKINS BROTHERS,**
New York, Boston, Chicago, Philadelphia.**THE DECORATIVE GLASS**in Abbey's Theatre, N. Y., and
Keith's Opera House, Boston,
are examples of Renaissance
and Rococo designs, the move-
ment, carried out entirely in
our hard metal settings.**METALLIC SETTING CO.,**
137 Weybosset St., PROVIDENCE, 5 Park Sq., BOSTON.**BLAKE BELL CO.**Successors to Wm. Blake & Co.
Bell Founders and Brass Finishers.Castings in any metal
except iron.Monumental Tablets, Artistic
Brass Work.
Allen and Brighton Sts., BOSTON.**J. W. TAYLOR'S PHOTOGRAPH SERIES.**51 MONROE ST. CHICAGO. OF AMERICAN ARCHITECTURE.
Removed to Owings Building.
Send two 5 cent stamps for Catalogue.**PARQUET FLOORS.****The National Wood Manufacturing Co.,**

129 8th Avenue, New York.

WAINSCOTINGS AND CEILINGS.Inlaid Wood Floors 5-16 and
7-8 inch thick.Solid work, Tongued and Grooved
in each piece.Designs & Estimates on applica-
tion. Established 1867.

POINTS ON VARNISH.

NO. 264.—A PRIMER LESSON.

An architect must be a teacher. Here is one of his primary lessons for the inexperienced owner:—Almost everything that people buy is composed, in a general way, of two parts: the *essential* part and the *luxury* part. The essential part, if it be rightly made, is a thing of fixed quality and cost. The luxury part is variable, both in quality and cost. If you want a pair of first-class opera-glasses, you can pay \$20 or \$50. The lenses are identical. The difference of cost is in the frame. Of two watches, one costs twice as much as the other—the works are the same, the difference is in the case. There is the same kind of leather in two sets of harness—a different mounting doubles the cost. So on, indefinitely. It is only in the luxury part that money can be saved on first-class goods. The cost of the essential part cannot vary. To cheapen the leather or works or lenses is to ruin all value.

Varnish has no luxury part. It is all of the essential part. If the quality is fine, the price cannot be lessened. To cheapen its quality is to ruin its entire value.

MURPHY VARNISH CO.
FRANKLIN MURPHY, President.

Head Office: Newark, N. J.
Other Offices: Boston, Cleveland, St. Louis, Chicago.
Factories: Newark and Chicago.

TO ARCHITECTS:

If you desire to recommend a firm as one thoroughly capable of supplying *complete* furnishings for a hotel, club-house or private residence, you can mention us *with confidence*.

We supply CARPETS, RUGS, UPHOLSTERY FABRICS, FURNITURE, ETC., ETC.

Our *goods* are right; our *prices* are right.

We make a specialty of *private* and *exclusive* patterns which cannot be duplicated elsewhere.

John H. Pray, Sons & Co.,

658 Washington Street,
Opposite Boylston Street,
BOSTON.

F. W. DEVOE & CO.

(Established 1852.)

Fulton St., cor. William, New York.
No. 176 Randolph St., Chicago.

Pure Ready-mixed Paints.

We desire to call attention of consumers to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fireproof." We use no secret or patent method in manufacturing them by which benzine and water are made to serve the purpose of pure linseed-oil.

Sample cards, containing fifty desirable shades sent on application.

FINE VARNISHES.

Hard Oil-Finish & Wood-Stains.

Illustrated Catalogue of Engineers' and Architects' Supplies, 250 pages, 700 Illustrations, on request.

White-Lead Colors in Oil and Japan.

ESTABLISHED 1853.

HOWSON & HOWSON,
COUNSELLORS AT LAW,
SOLICITORS OF PATENTS.

Philadelphia Offices: 119 South Fourth Street,
New York: Potter Building, 38 Park Row,
Washington, D. C.: 915 F. Street.

H. W. JOHNS'

Liquid Paints

These Paints are composed of pure linseed oil and the highest grade of pigments. They are combined by processes exclusively our own and are unequalled by any in richness and permanency of color. One gallon will cover from 275 to 300 square feet, two coats without thinning and can be safely thinned with $\frac{1}{2}$ gallon linseed oil to one gallon paint for first coat.

SAMPLE CARD OF

DES. INSTRUCTIONS FOR USE AND SUGGESTIONS FOR PAINTING ETC. FREE BY MAIL.

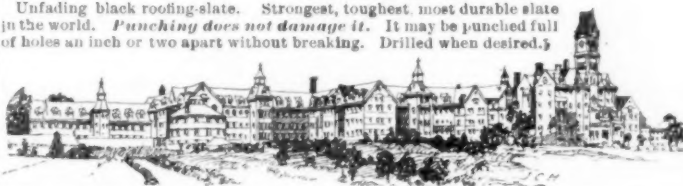
New York, Jersey City,
Chicago, Philadelphia, Boston.

H. W. JOHNS MFG CO.

BROWNVILLE MAINE SLATE COMPANY.

Office, WORCESTER, MASS.

Unfading black roofing-slate. Strongest, toughest, most durable slate in the world. *Punching does not damage it.* It may be punched full of holes an inch or two apart without breaking. Drilled when desired.



STATE LUNATIC ASYLUM, WORCESTER, covered with our Slate.

Toughest
Slate,
Fewest
Leakages.
Oldest
quarry
in Maine.

Awarded the Grand Prize at the late Paris Exposition.

BOSTON, MASS. 8 OLIVER ST. PHILADELPHIA, PA. 32 N. 5TH ST. CHICAGO, ILL. 910 MASONIC TEMPLE CINCINNATI, O. 405 N. 4TH ST. PITTSBURGH, PA. 408 LEWIS BLDG.
CLEVELAND, OH. 44 PERRY AVE. ST. LOUIS, MO. 100 N. 3RD ST. ST. PAUL, MINN. 100 N. 3RD ST. ST. CINCINNATI, O. 405 N. 4TH ST.

BABCOCK & WILCOX BOILERS

THE BABCOCK & WILCOX CO

29 CORTLANDT ST.
NEW YORK.

SEND FOR BOOK ON STEAM.

NEW ORLEANS, LA. 57 CARondelet ST. SAN FRANCISCO, CAL. SAN FRANCISCO TOOL CO. HAWAII, CUBA, 115 CALLE DE LA HABANA.

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING, DREXEL BUILDING, MONADOCK BUILDING, DASHWOOD HOUSE,
NEW YORK. PHILADELPHIA. CHICAGO. LONDON.



Announce to all who contemplate building or renovating
Hotels, Office Buildings or Residences, that they have
formed a department in their extensive works for

**Architectural Woodwork,
Fine Cabinet Work, and
Interior Finishing.**

Plans, designs, specifications and further particulars will be submitted on ap-
plication. Address **WORKS AT WILMINGTON, DEL.**

BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

John Cox, two-sty flats, 6346 Dreyer Ave.; \$4,300.
T. J. Rayeroff, 2 two-sty flats, 1924-1926 Adams St.; \$9,500.
Charles Lank, three-sty flats, 617 Sawyer Ave.; \$3,000.
J. G. Horn, two-sty flats, 5559 Princeton Ave.; \$3,000.
John L. Rawleigh & Co., three-sty flats, 234 West Monroe St.; \$3,500.
T. Sullivan, three-sty flats, 4732 Prairie Ave.; \$10,000.
John A. Prebis, two-sty flats, 709 Davis St.; \$4,000.
W. S. Ferguson, two-sty flats, 1994 Jackson St.; \$3,000.
H. Schulze, three-sty flats, 110 Osgood St.; \$5,000.
J. W. Hooper, 2 three-sty flats, 1037-1039 Grace-land Ave.; \$9,000.
John Kanein, three-sty flats, 84 Cornelia St.; \$6,000.
John Gisel, two-sty flats, 930 Trumbull Ave.; \$3,000.
George Engelter, three-sty flats, 1635 Melrose St.; \$6,000.
Levi Pritchard two-sty flats, 5636 Sherman St.; \$4,000.
Jacob Rosen, 3 two-sty flats, 200-204 Charlotte St.; \$4,000.
H. Ahlquin, four-sty flats, 874 West 22d St.; \$6,500.
M. Brookerfield, 2 two-sty flats, Commercial and Leland Aves.; \$6,000.
Arthur Schroeder, three-sty flats, 490 Larrabee St.; \$6,500.
J. D. Aleott, three-sty flats, 3711 La Salle St.; \$3,000.
F. Wittemann, three-sty flats, 144 Ramsey Ave.; \$4,000.
A. Graykowski, three-sty flats, 656 Maplewood Ave.; \$3,000.
J. Tourolette, 2 three-sty flats, 3197-3199 West Adams St.; \$7,000.
J. hn Bredel, two-sty flats, 135 Samuel St.; \$4,000.
C. G. Isieson, four-sty flats, 1729 Sherman Pl.; \$12,000.
H. P. Abengo, two-sty flats, 1666-1668 Van Buren St.; \$5,000.
A. Marquandt, two-sty flats, 803 Cortland St.; \$3,500.
Frank Haveman, two-sty flats, 775 Humboldt St.; \$3,000.
Frank Scott, three-sty flats, 1436 Roscoe St.; \$5,500.
Duncan Caneson, 2 two-sty flats, 147-149 Irving Ave.; \$5,500.
George Lindgren, three-sty flats, 1322 Wolfram St.; \$5,000.

New York, N. Y.—Third Ave., s e cor. 93d St., 2 five-sty brick flats, 25' x 86' x 99', 59' 10" high, flat tin roof; \$60,000; own., Joseph Zimmerman, 926 Amsterdam Ave.; arch., Bruno W. Berger, 9th St. and 3d Ave.

East Twenty-fifth St., Nos. 229-235, 3 five-sty brick flats, 25' x 89', 59' high, flat tin roof; \$69,000; own., Frederick Meyer, 347 Third Ave.; arch., John Kimbel, 152 East 103d St.

One Hundred and Fourteenth St., n w cor. 5th Ave.; 2 five-sty brick flats, 25' x 89', 59', 58' high, flat tin roof; \$60,000; own., Wm. H. Ramsey, 14 West 60th St.; arch., G. Fred Felham, 203 Fifth Ave.

One Hundred and Twenty-seventh St., s s, 75' e Columbus Ave., five-sty brick flat, flat tin roof, 25' x 60', 59' high; \$16,000; own., August Jacob, 260 East 78th St.; arch., John Hauser, 1441 Third Ave.

Eighty-eighth St., s s, 100' e Amsterdam Ave., five-sty brick flat, flat asphalt and cement roof, 25' x 90', 62' high; \$25,000; own., Hetty B. Beatty, 3 East 9th St.; arch., W. G. Beatty, 100 Fifth Ave.

East Eighty-fourth St., No. 436, five-sty brick flat, flat tin roof, 24' x 87' 6", 60' high; \$20,000; own., Henry F. Lippold, 844 East 170th St.; arch., Charles Stegmeyer, 306 East 83d St.

East Broadway, No. 251, five-sty brick flat, flat tin roof, 23' x 63', 60' high; \$20,000; own., Simon Lebovitz, 253 East Broadway; arch., Schneider & Hertz, 48 Bible House.

Columbus Ave., s w cor. 101st St., five-sty brick flat, flat boarded and tin roof, 100' x 100', 60' high; \$150,000; own., Geo. W. Eggers, 690 West End Ave.; arch., Angell & Higginson, 108 Fulton St.

One Hundred and Eighty-eighth St., n w cor. Courtlandt Ave., four-sty brick flat, flat tin roof, 22' x 94', 49' high; \$15,000; own., Magdalena Simon, 809 Courtlandt St.; arch., Gustave Schwarz, 554 East 158th St.

West Twenty-seventh St., No. 143, five-sty brick flat, flat tin roof, 25' x 87', 59' high; \$20,000; own., W. I. Clark, 127 East 30th St.; arch., Schneider & Hertz, 48 Bible House.

East Ninety-fifth St., Nos. 212-214, 2 five-sty brick flats, 28' x 89', 60' high; \$30,000; own., Schloper & Gorsch, 1441 Third Ave.; arch., Charles Stegmeyer, 306 East 83d St.

West Thirty-eighth St., Nos. 456-458, 2 five-sty brick flats, flat tin roofs, 39' x 44', 55' high; \$36,000; own., Annie M. Gounod, 57 St. Mark's Ave.; arch., James Stroud, 1267 Broadway.

CHURCHES.

Chester, Pa.—The contract for the erection of the

BUILDING INTELLIGENCE.

(Churches Continued.)

First Baptist Church has been awarded to Isaac A. Walker & Son of Folsom, for \$30,720.

Detroit, Mich.—St. Andrew's Memorial Church, 60' x 130'; materials, limestone trimmed with Berea-stone, metal roof; own., St. Andrew's Parish; arch., Cram, Wentworth & Goodhue, Boston, Mass.

Melrose Highlands, Mass.—Frame church, 70' x 100', for Highland Cong. Society; arch., A. H. Bowditch, Boston.

Mount Airy, Pa.—Sedgewick and Chew Sts., one-sty stone church with slate roof will be built for the congregation of the Mount Pleasant Methodist Episcopal Church; arch., J. E. Worthington, 1305 Arch St., Philadelphia.

Passaic, N. J.—H. P. Wynne has prepared plans for a stone church to be built for the German Lutheran Society at a cost of about \$12,000.

Philadelphia, Pa.—Spruce St., cor. 18th St., Thomas P. Lonsdale, arch., Manhattan Life Building, has completed plans for the Western Methodist Church; it will be built of Avondale marble, and will cost, exclusive of interior fittings, about \$60,000; con., Mr. Johnstone.

Dauphin St., n e cor. 15th St., one-sty temporary frame chapel, 40' x 60'; con., A. Raymond Raff, 1327 Buttonwood St.

EDUCATIONAL.

Brewton, Ala.—Rebuilding Brewton Institute; \$12,500; con., Nichols & Arnold.

Chester, Pa.—Chester school board has decided to build a new grammar school to be built on Broad St.; not including heating and ventilating, about \$40,000; arch., Edwin F. Bertolett, 1218 Filbert St., Philadelphia, Pa.

Chicago, Ill.—The Chicago Homeopathic College; three-sty brick building, 356-358 South Wood St.; \$9,000.

Clemson College, S. C.—Rebuilding Clemson College buildings; \$23,393; arch., Bruce & Morgan, Atlanta, Ga.; con., Gude & Walker, Atlanta, Ga.

Dundee Lake, N. J.—Two-sty school, will be built from plans prepared by J. E. Terhune, 39 Cortlandt St., New York City.

Ennis, Tex.—School, to cost \$15,000 will be built; arch., W. H. Wilson, Dallas, Tex.

Georgetown, Tex.—School, to cost \$14,690 will be built; con., Francis Fisher, Austin, Tex.

New York, N. Y.—Rivington St., s e cor. Ridge St., three-sty brick school, 26' x 40', 35' high, flat tin roof; \$15,000; own., Mayor, Aldermen and Community City of New York; arch., C. B. J. Snyder, 146 Grand St.

Oakland, Md.—School, to cost \$12,200; con., Bradford Bros., of Clarksburg, W. Va.

Philadelphia, Pa.—Spruce St., s s, e 36th St., four-sty stone and brick chemical laboratory for the University of Pa.; con., Lewis Havens, 518 Girard Building.

Raleigh, N. C.—Baptist State Female University; \$35,000; arch., A. G. Bauer.

FACTORIES.

Germantown, Pa.—Fisher's Lane and Eighteenth St., two-sty stone knitting-mill, 45' x 85'; bld., Frederick May, 43 Wister St.

New York, N. Y.—West Forty-second St., No. 506, two-sty brick workshop, 20' x 89', 27' high, flat gravel roof; \$7,000; own., J. A. Leighton, 437 West 44th St.; arch., John Bergesen, 127 East 23d St.

One Hundred and Fourth St., n s, 102' e 1st Ave., one-sty brick workshop, peaked roof, 50' x 99', 34' high; \$4,000; own., M. C. Henry & Co., 104th St., near 1st Ave.

Sullivan St., Nos. 30-32, two-sty brick workshop, flat brick and cement roof, 37' x 55', 29' high; \$6,500; own., Charles Burkelman, 3 Charleston St.; arch., A. K. Melvaine, 48 Exchange Pl.

University Pl., from Waverly Pl. to Washington Pl., ten-sty brick factory, flat tiled brick on asphalt and copper roof, 99' x 180', 145' high; \$700,000; own., University City of New York; arch., Alfred Zueker, 33 Union Sq.

St. Louis, Mo.—Six-sty factory, s s Market St., bet. 6th and 7th Sts.; \$38,000; own., Blanke's Candy Co.; con., C. Kellermann.

HOSPITALS.

Philadelphia, Pa.—North College Ave., n s, e 22d St., five-sty brick and stone hospital, 88' x 44', with wing, 56' x 32', on lot 112' x 128'; con., George F. Payne & Co., 407-409 Juniper St.; \$100,000.

HOTELS.

Harvey Cedars, N. J.—Frame hotel, fitted with all conveniences and hotel appliances; arch., Frank L. Price, 731 Walnut St., Philadelphia, Pa.

HOUSES.

Ambler, Pa.—Butler Ave., ground has been broken for a stone dwell. for Charles Shoemaker.

Arlington, Mass.—Vassachusetts Ave., two and one-half-sty frame dwell., hip roof, 36' x 40'; own., Wm. H. Muller; bld., Geo. H. Sawyer; arch., Gay & Proctor, 12 Pearl St., Boston.

Baltimore, Md.—Five two-sty brick dwells., e s Fulton Ave., n Patterson Ave.; 6 two-sty brick dwells., w s Bruce St., n Patterson Ave.; and 5 two-

INSTRUCTION BY MAIL

In Architectural Drawing,
Plumbing, Heating and Ventilation,
Bridge Engineering,
Railroad Engineering,
Surveying and Mapping,
Electrical Engineering,
Mechanics,
Mechanical Drawing,
Mining,
English Branches, and

ARCHITECTURE.

Diplomas awarded. To begin, students need only know how to read and write. Send for FREE Circular of Information stating the subject you think of studying to

The Correspondence School of Mechanics
and Industrial Sciences,
SCRANTON, PA.

4000 STUDENTS.

BUILDING INTELLIGENCE.

(Houses Continued.)

st'y brick dwells., w s Bruce St., n Patterson Ave.; own., J. A. Griffin, 2026 Wilkins Ave.

Three-sty brick dwells., s s Fayette St., bet. Carey and Calhoun Sts.; own., Dr. W. W. Bruce, 1713 West Lombard St.

Six two-sty brick dwells., e s, and 5 two-sty brick dwells., w s McCulloh St., bet. North Ave. and Clendenin St.; own., Jos. H. Pentz, 630 West Saratoga St.

Three-sty brick dwell., 2836 O'Donnell St.; own., J. W. Crook, 2925 O'Donnell St.

Seven two-sty brick dwells., n s Townsend St., bet. Belair Ave. and Burke St.; and ten two-sty brick dwells., n s Townsend St., bet. Burke St. and Port Alley; own., E. Ellinger & Bro., 3 East Lexington St.

Three two-sty brick dwells., w s Gilmor St., and 4 two-sty brick dwells., e s Vincent Alley, n Riggs Ave.; own., Edward S. Hampson, 2001 Druid Hill Ave.

Twenty-nine two-sty brick dwells., w s Milton Ave., n Fairmount Ave.; own., E. J. Gallagher, 2540 Baltimore St.

Three-sty brick dwell., 740 Light St.; own., Mrs. Ida Bode, 740 Light St.

Five two-sty brick dwells., w s Pulaski St., n Walbrook Ave.; own., Chas. A. Lipp, 1635 North Caroline St.

Boston, Mass.—Plainfield St., cor. Brooks Road, Ward 23, three-sty frame dwell., hip roof, 24' 6" x 42'; own., Fred A. Kelly; bld., Wm. Mullin.

Pearl St., near Pleasant St., Ward 24, 2 three-sty frame dwells., flat roofs, 28' x 60'; own., Mrs. James Mulligan and Annie Hazlett.

Main St., near Tibbets Town Way, Ward 4, 4 three-sty frame dwells., flat roofs, 28' x 60'; own., Houghton & Dutton; bld., L. L. Libby.

East Third St., No. 642, Ward 14, two-sty frame dwell., flat roof, 25' x 75'; own., John J. Dorgan; bld., Howard Bros.

Mendum St., Ward 23, frame dwell., 26' x 43'; own., Keyes & Moseman; bld., P. M. Brown.

L St., cor. Emerson St., Ward 14, frame dwell., flat roof, 33' x 43'; own., Wm. Kelly; bld., Berry & Watson.

Falcon St., near Meridian St., Ward 1, 2 frame dwells., pitch roofs, 21' x 51'; own., James Reed and James Reed, Jr.; bld., Sidney Peterson & Co.

Templeton St., Ward 24, 4 frame dwells., pitch roofs, 26' x 52'; own. and bld., Herbert Call and D. P. Moore.

Carlos St., near Chapman Ave., Ward 24, 4 frame dwells., 21' x 38'; own. and bld., White & Sorenson.

Davis Pl., Nos. 1-2, Ward 20, 2 three-sty brick dwells., flat roofs, 30' x 32'; own., A. T. Connelly; bld., T. L. Connelly, 37 Thorncliffe St.

Albany St., No. 879, Ward 20, three-sty brick dwell., flat roof, 20' x 40'; own., A. T. Connelly; bld., T. L. Connelly.

Sherwin St., Ward 20, 5 three-sty brick dwells., flat roofs, 20' x 38'; own., A. T. Connelly; bld., T. L. Connelly.

Croftwood Terrace, Ward 24, 2 two-sty frame dwells., hip roofs, 22' x 54'; own., R. J. Todd, 72 Beverly St.

St. Alphonsus St., near Tremont St., Ward 23, three-sty frame dwell., flat roof, 34' x 39'; own., Timothy Ahearn; bld., John Gorman, 320 Centre St.

Clement St., near Dixon Ave., Ward 24, three-sty frame dwell., hip roof, 28' x 34' 6"; own., Moses Lincoln, 13 Fulton St.; bld., Whittaker & Gerrish.

Glen Road, cor. Rea Ave., Ward 24, frame dwell., 27' x 54'; own., John Smith; bld., Ourish & Rich.

Granville St., near Adams St., Ward 24, three-sty frame dwell., pitch roof, 28' x 36'; own., J. G. Young, Jr., 199 Adams St., Dorchester; bld., R. K. Haskell.

Germania St., near Baker St., Ward 23, three-sty frame dwell., flat roof, 26' x 42'; own., Jas. Maguire; bld., G. H. Dearborn.

Wrentham St., near Dorchester Ave., 2 frame dwells., pitch roofs, 23' x 37'; own. and bld., Isaac Schurmann, 2004 Dorchester Ave.

Roslin St., cor. Montague St., Ward 24, frame dwell., 30' x 37'; own., James Reid; bld., J. Davidson.

Centre St., near Adams St., Ward 24, frame dwell., 29' x 42'; own., H. B. Blackwell; bld., F. O. Morrill, 3 Park St.

Wald St., near Sullivan St., Charlestown, 2 three-sty frame dwells., flat roofs, 28' 9" x 25'; own. and bld., W. J. Robinson, 1122 Dorchester Ave.

Brookline, Mass.—Lansdowne Ave., 10 three-sty brick dwells., flat roofs, 29' x 40'; own. and bld., Wm. C. Norris; arch., Arthur H. Bowditch, Boston.

Chestnut Hill, three-sty frame dwell., hip roof, 40' x 50'; own., Hamilton Perkins; arch., Longfellow Alden & Harlow, Boston.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,BEAMS, CHANNELS, ANGLES, ZEES, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.**Round, Square and Flat Bars**
of all sizes.**SPECIALTIES:****PHENIX COLUMNS AND UPSET EYE-BARS**

Of all sizes, in Iron or Steel.

ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.**AGENTS:**

New York: EDWARD CORNING & Co., 29 Broadway.

Chicago: A. C. STITES, 931 Rookery Building.

Boston: EDWARD CORNING & Co., 70 Kilby Street.

PASSAIC ROLLING MILL CO.,

PATERSON, N. J.

STEEL BEAMS4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

NEW YORK OFFICE, - - 43 BROADWAY.

J. S. THORN CO.**Architectural Sheet-Metal Works.**Metal Building Trimmings, Ventilating Skylights
Metallic Roofing Tiles, Building Specialties, Builders
Light Iron Work of every description.

Nos. 1225 to 1229 Callowhill Street,

PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Houses Continued.)

Brooklyn, N. Y. — Seventh Ave., n e cor. Carroll St.,
three-sty and basement brick dwell., 21' x 50', tin
roof; \$9,000; own. Wm. A. Hall, Carroll St., cor.
Polhemus Pl.; arch., Chas. Werner, Garfield Build-
ing; bld., M. Gibbons & Son, 318 Columbus St.Prospect Pl., s s, 125' w Underhill Ave., 3 two-st'y
and basement brick dwell., 17' 10' x 45', tin roofs;
\$13,000; own., John F. Hunter, 747 Lexington Ave.;
arch., Dahlander & Hedman, Arbuckle Building.Harmon St., n s, 175' w Irving Ave., 2 three-st'y
frame dwell., 25' x 63', tin roofs; \$5,000 each; own.,
Ph. Dunks, 287 Central Ave.; arch., Chas. Infanger,
Atlantic and Georgia Aves.Sumpter St., s s, 225' e Hopkinson Ave., three-st'y
frame dwell., 23' x 60', tin roof; \$4,600; own., J.
Hadley, 280 Sumpter St.; arch., Henry Vollweiler,
43 Hart St.; bld., J. O. Whitenack, 512 Chauncey
St.Fortieth St., n s, 125' e 5th Ave., 5 two-st'y and
basement frame dwell., 20' x 40', tin roofs; \$3,000
each; own., Richard Whalen, 5th Ave. and 40th St.;
arch., H. L. Spicer, 1106 3d Ave.Thirty-first St., n s, 110' w 4th Ave., 12 two-st'y
frame dwell., 16' 8' x 42', tin roofs; \$1,800 each;
own., arch. and bld., Wm. E. Kay, 56th St.Winthrop St., n s, 500' e Flatbush Ave., two-st'y
frame dwell., 25' x 48', shingle roof; \$4,000; own.,
Mrs. W. S. Lemon, 49 Liberty St., New York; arch.,
Adam E. Fischer, 49 Liberty St., New York.Railroad Ave., w s, 113' n Atlantic Ave., 4 two-st'y
frame dwell., 18' 9' x 32', tin roofs; \$1,600 each;
own., M. J. Elliott, 533 Barbey St.Bay Twentieth St., w s, 185' n Bath Ave., two-st'y
and attic frame dwell., 37' 2' x 36', shingle and
tin roof; \$6,500 own., Rev. A. T. O'Rourke, Bath
Beach, L. I.; arch., Thos. F. Houghton, 231 Montage
St.; bld., Geo. J. Caulfield, 6 Lawton St.Bulley St., s s, 300' w Ralph Ave., 7 two-st'y base-
ment and cellar brick dwell., 17' 3' x 45', tin or
gravel roofs; \$4,500 each; own., F. J. Vandewater,
139 Ralph Ave.; arch., J. E. Styles, 53 Liberty St.Carlton Ave., e s, 95' n Park Pl., four-st'y brick
dwell., 24' x 62', tin roof; \$8,000; own., C. H. Ward,
716 Sackett St.; arch., Delancy & Collins, 67 Cler-
mont Ave.St. Mark's Ave., n s, 56' w Rockaway Ave., three-
st'y brick dwell., 30' x 53', 40', slate and tin roof;
\$6,000; own., Rt. Rev. Charles E. McDonnell,
Greene and Clermont Aves.; arch., B. O'Rourke, 47
Howard Ave.; bld., J. Stewart, 2074 Atlantic Ave.Bulley St., n s, 100' w New York Ave., 15 three-
st'y and basement brick dwell., 10' 8' x 46', tin
roofs; \$5,500 each; own., F. Loyano, 149 Lefferts Pl.;
arch., Dahlander & Hedman, Arbuckle Building;
bld., D. H. Fowler, 129 Fulton St.Chicago, Ill. — William Sollitt, three-st'y dwell.,
1257 Washington Boulevard; \$6,000.A. Dickinson, three-st'y dwell., 612 North State
St.; \$20,000.Dennis J. O'Connell, 5 three-st'y dwell., 4805-4813
Prairie Ave.; \$25,000.John D. Ryan, two-st'y dwell., 1520 Adams St.;
\$3,500.Zweton & Nathan, five cottages, 782-792 Hamlin
Ave.; \$5,500.F. I. Bennett, 6 two-st'y dwell., 73d St., nr. Euclid
Ave.; \$24,000.F. I. Bennett, 3 two-st'y dwell., 73d St., nr. Euclid
Ave.; \$12,000.F. I. Bennett, 8 two-st'y dwell., Ellington Ave.,
nr. 72d St.; \$32,000.F. I. Bennett, 2 two-st'y dwell., Kenwood Terrace,
nr. Euclid Ave.; \$4,000.F. I. Bennett, 2 two-st'y dwell., 7109-7113 Euclid
Ave.; \$8,000.

Mrs. M. Smith, dwell., 396 Lydiard St.; \$4,000.

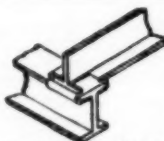
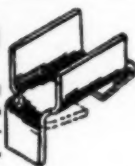
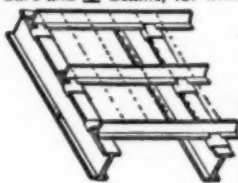
William Bauer, two-st'y dwell., 973 Kenmore
Ave.; \$5,000.**Iron Work.****JACKSON ARCHITECTURAL IRON WORKS,**

ESTABLISHED 1840.

IRONFronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams,
Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings
and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze.
Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts.

Office, 315 East 28th St., New York.

**H. A. Streeter's Patent Clip**ARCHITECTS, OWNERS, CONTRACTORS, and all
others interested in Iron or Steel construction will please
note that I have PATENTED A STEEL CLIP for connect-
ing Angle or Tee bars to I Beams, etc., which reduces the expense one-half,
and does away with the old method of Drilling and Bolting, which is a great sav-
ing of Time, besides allowing an easy method of adjusting Tee bars to any de-
sired width of Tile. (This method is now adopted by our principal contractors).
Clips furnished ready to apply by sending the Sections and weight of Tee
Bars and I Beams, for which connections are wanted.

FOR PRICES AND FURTHER INFORMATION

APPLY TO STREETER

Globe Iron Works,

35-41 E. INDIANA STREET,

CHICAGO, - - - ILL.

**ORNAMENTAL****IRON****WORK****PRISMATIC****LIGHT****WORK****BUILDING INTELLIGENCE.**

(Houses Continued.)

A. P. Ratz, two-st'y dwell., 5646 Peoria St.;
\$3,000.Theodore Periot, two-st'y dwell., 5652 South Peo-
ria St.; \$3,000.John Bauholzer, two-st'y dwell. and stable, 1499
Monroe St.; \$6,500.C. T. Williams, two-st'y dwell. and stable, 1503
West Monroe St.; \$6,000.The Trinity Church, two-st'y brick parish house,
105 Twenty-sixth St.; \$20,000.Danvers, Mass. — Two-st'y frame dwell., pitch roof,
33' x 52'; \$8,000; own., A. F. Welch; arch., Arthur
F. Gray, 83 State St., Boston; not let.Detroit, Mich. — R. E. Raseman, frame dwell., 28
Pinegrove Ave.; \$4,000.

R. E. Raseman, brick dwell., 36 Bagg St.; \$7,000.

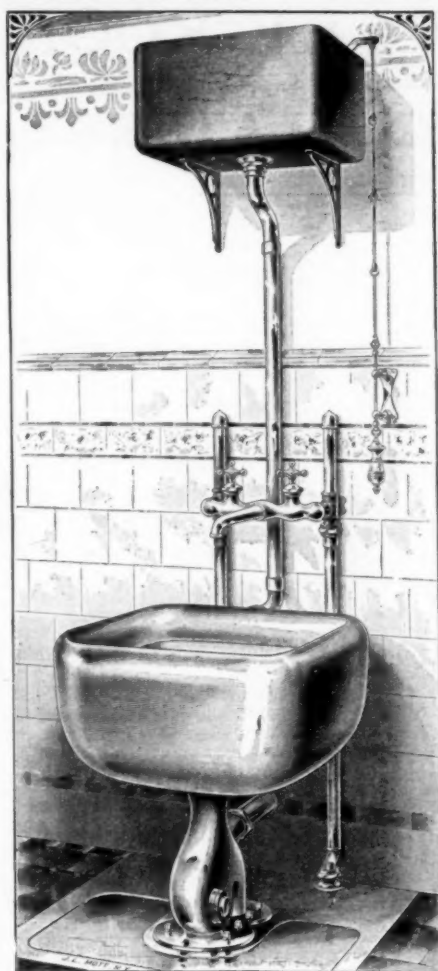
W. Howes, frame dwell., 1020 Trumbull Ave.;
\$4,600.Rogers & McFarland, brick dwell., 16 Adelaide
St.; \$4,500.H. W. Holcomb, brick dwell., 312 Merrick Ave.;
\$4,600.J. Patterson, frame dwell., 893 Fourteenth Ave.;
\$3,000.R. Helson, frame double dwell., 268 70 Butternut
St.; \$3,000.

M. W. Seovel, brick dwell., 34 Cherry St.; \$3,000.

A. C. Varney & Co., brick double dwell., 47-49
Brady St.; \$7,600; also brick double dwell., 40 Wood-
ward Ave., Terrace; \$7,500; also brick dwell., 35
Blaine Ave.; \$3,000; also brick dwell., 443 Wood-
ward Ave.; \$3,500; also brick dwell., 39 Blaine Ave.;
\$3,000; also brick dwell., 94 Delaware Ave.; \$3,000.East Orange, N. J. — Two-st'y frame dwell., 28' x
48'; plans prepared by F. F. Ward; own., Benjamin
Shepherd; about \$7,000.Germantown, Pa. — Laurel St., n s, e Germantown
Ave., two-st'y brick dwell. and saloon with back
building; con., R. M. Paterson, 171 Bringham St.Hortler St., w s, bet. Musgrove and Crowson Sts.,
two-st'y brick and stone dwell. with back building;
con., Martin Hetzel, 45 Church St.Hartford, Conn. — Farmington Ave., No. 579, brick
and frame dwell., one-st'y gold mottled brick and
stained shingles above; arch., A. W. Scoville.Milton, Mass. — Central Ave., two-and-one-half-st'y
frame dwell., pitch roof, 28' x 48'; \$5,500; own. R.**BUILDING INTELLIGENCE.**

(Houses Continued.)

S. Fuller; bld., G. L. Trafton; arch., Longfellow,
Alden & Harlow, Boston.New Haven, Conn. — Edgewood Ave., near Norton
St., double frame house, 40' x 58'; \$8,000; own., R.
G. Carleton and D. A. Thompson; bld., Scott &
Barnes; arch., L. Hayne.Elliot St., frame dwell., 28' x 64'; \$4,000; own.,
Wolf Levy; arch., L. Hayne.Newton Centre, Mass. — Montvale Road, frame
dwell., gambrel roof, 40' x 56'; \$15,000; own. and
bld., E. B. Bowen; arch., Kendall & Stevens,
Boston.New York, N. Y. — St. Nicholas Ave., from 148th St.
to 149th St., 11 three and four-st'y brick dwell., 18'
x 20', 74' x 69', 50', 60' high, flat tin roofs; \$215,000;
own., Wm. Broadbelt, 19 East 127th St.; arch.,
Frederick P. Dinkelburg, Union Square.One Hundred and Sixty-eighth St., s w cor. Fulton
Ave., three-st'y brick and frame dwell., flat tin roof,
22' x 30', 30' high; \$4,500; own., Rosa Kuntz, 1202
Fulton Ave.; arch., T. J. Miller, 727 East 163d St.Fulton Ave., w s, 25' n 158th St., three-st'y brick and
frame dwell., flat tin roof, 21' x 45', 34' high; \$3,900;
own., Peter McEnenney, 835 Courtlandt St.; arch.,
Wm. McEntyre, 531 Robbins Ave.Hull Ave., e s, 255' n Moshulu Parkway, three-st'y
brick and frame dwell., peak slate roof 26' x 41', 33'
high; \$3,500; own., Matthew and Mary Dalton, 703
Amsterdam Ave.; arch., William Greenless, Wood-
lawn Heights.One Hundred and Thirty-eighth St., s s, 320' e 12th
Ave., 2 three-st'y brick dwell., flat tin roofs, 15' x
44' 31' high; \$12,000; own., Patrick H. Lynch, s s
128th St., 500' e 12th Ave.One Hundred and Forty-seventh St., n s, 325' e
Boulevard, 3 three-st'y brick dwell., flat tin roofs,
16' x 48', 30' high; \$24,000; own., Bernard Havanagh,
469 West 147th St.; arch., Will A. O. Hea, 306 West
128th St.Philadelphia, Pa. — Eighteenth St., w s, n Cumber-
land St., 30 two and three-st'y brick dwell. with back
buildings; own. and bld., John Loughran, 2238
North Broad St.Leidy Ave., s w s, 152.51' n w Girard Ave., 4 three-
st'y brick dwell. with back buildings; own., Wil-
liam R. Coffin.Stiles St., s s, e 42d St., 10 three-st'y brick dwell.;
own. and bld., J. H. Virkler, 108 Belmont Ave.



Copyright, 1894, by THE J. L. MOTT IRON WORKS.
PLATE 1146-G. REDUCED CUT.

THE J. L. MOTT IRON WORKS.

84 to 90 Beekman Street, NEW YORK,

AND

311 & 313 Wabash Avenue, CHICAGO.

THE RICHMOND

IMPERIAL . . .
PORCELAIN OR
COLONIAL . . .

FLUSHING-RIM SLOP-SINK

Represents a new and valuable departure. The Flushing-Rim is an integral part of the Sink, which is strong and durable. The Sink is glazed inside and out, and is well adapted for Public Buildings, Hospitals, and Residences. The Imperial Porcelain is white inside and light buff outside; the Colonial is light buff inside and outside.

Illustrated price-list mailed on application.

BUILDING INTELLIGENCE.

(Houses Continued.)

Linden St., s e cor. Palethorp St., 4 two-st'y brick and stone dwells.; own, T. W. Smaltz, Cambria St., n e cor. American St.
Brewster Ave., w s, s 97th St., two-st'y frame dwell. with back building; con., George B. Heath, 88th St. and Ewing Ave.
South Eighteenth St., Nos. 1907-1909, 2 two-st'y brick dwells. with back buildings; own, George A. Wagner, 1826 South 18th St.
Tree St., s e cor. 11th St., 5 two-st'y brick dwells. with back buildings; own, Alexander Cowan, 2229 South 5th St.
Forty-ninth St. w s, s Westminster Ave., 2 two-st'y brick dwells.; own, M. F. Beckley, 4904 Westminster Ave.
Stella Ave., n w s, n w Emerald St., 13 two-st'y dwells.; own, Alfred H. Williams, 1914 North 12th St.
Euclid Ave., n s s bet. 30th and 31st Sts., 42 two-st'y brick dwells. with back buildings; own and bid., William G. Serrill, 1750 North 15th St.
Twenty-second and a-half St., e w s, bet. Glenwood Ave. and Dauphin St., 12 two-st'y brick and brownstone dwells. with back buildings; bid., James and Charles A. Maguire, 1432 South Penn Sq.
A St., e s, n Front St., two-st'y brick dwell.; con., George W. Stroud, 1815 Wensley St.
Mitchell St., w s, s Bolton Ave., 6 two-st'y stone dwells. with back buildings; own, Wright & Dager, 607 Jefferson St., Roxborough, Pa.
Marlborough St., No. 1402, three-st'y brick dwell.; own, John O'Callahan, 231 Toga St.
Sixty-third St., w s, bet. Greenway and Woodland Aves., 2 two-st'y brick dwells. with back buildings; con., B. H. Downard, Wilmington, Del.
Snyder Ave., n s, 64 e 15th St., 2 two-st'y brick dwells. with back buildings; con., H. Moody, 1749 South 16th St.
Ontario St., s s, e G St., two-st'y brick dwell. with back building; con., Joseph Heaton, 3941 Marshall St.
Opal St., e w s, n York St., 67 two-st'y and 2 three-st'y brick dwells. with back buildings; own, Frank H. Rhodes, Provident Building, Chestnut and 4th Sts.
Garnet St., e w s, n York St., 67 two-st'y and 2 three-st'y brick dwells. with back buildings; own, Frank H. Rhodes, Provident Building, Chestnut and 4th Sts.
Huntingdon St., n s, bet. Willington and Bancroft Sts., 5 three-st'y brick dwells. and two stores and dwells.; own, John B. Serrill, 1413 North Broad St.
Spruce St., No. 919, four st'y stone and brick residence; own, E. Klein Smith; arch., Henry D. Dagill; con., Jacob Wenzelberger.
Harrison St., e s, s Willow St., three-st'y stone and brick dwell. with back building; con., T. Bush, 1955 Frankford Ave.
North St., s e s, n Island Road, 2 two-st'y brick dwells. with back buildings; con., Robert W. Smith, 1515 Green St.
Philadelphia St., No. 2396, two-st'y brick dwell. with back building; own, James T. Mooney, 2433 Philadelphia St.
Twenty-sixth St., e s, and *Twenty-seventh St.*, w s, 148 s Wharton St., 14 two-st'y brick dwells. including two stores and dwells. all with back buildings; con., W. A. Margeran, 924 Mount Vernon St.

St. Louis, Mo.—Three-st'y dwell., n e cor. 23d and

BUILDING INTELLIGENCE.

(Houses Continued.)

Biddle Sts., \$6,200; own, P. Zimmer; bid., H. Schulte.
Two-and-one-half-st'y dwell., n s Keokuk St., bet. Iowa and Ohio Aves.; \$5,250; own, Mrs. J. Weiss; con., Sichers.
Two-st'y dwell., e s Broadway, bet. Nagle and Robert Sts.; \$4,900; own, H. Mier; bid., Gilbert Bros.
Two-and-one-half-st'y dwell., n s La Salle St., bet. 18th St. and St. Ange Ave.; \$6,500; own and bid., H. J. Dodson.
Two-st'y dwell., s s Westminster St., bet. Vandeventer Ave. and Sarah St.; \$6,000; own, J. Dawler; con., Dan Thomson.
Winstead, Conn.—Two-st'y frame dwell., gambrel roof, 45' x 56'; \$9,000; own, W. L. Camp; arch., Loring & Phipps, Boston.
Worcester, Mass.—*Goulding St.*, three-st'y frame dwell.; own, F. W. White; con., O. C. Thayer.
Norfolk St., three-st'y frame dwell.; own, Ferguson & Greer; day-work.
Rock Ave., two-st'y frame dwell.; own, L. N. Smith; con., F. J. Goff.
Wells St., one-and-one-half-st'y frame dwell.; own and con., Lorenzo Hill.
Ascension St., three-st'y frame dwell.; own, Mrs. Theresa Segalia; con., Augustine Theriault.
West St., two-st'y frame dwell.; own and con., J. E. Spaulding.
Mill Road, two-st'y frame dwell.; own, Geo. A. Stevens; arch., A. P. Cutting; con., Ward & Blanding.
Coburn Ave., two-st'y frame dwell.; own, Geo. A. Ayer; con., Ward & Blanding.
Randall St., one-and-one-half-st'y frame dwell.; own, Chas. G. Barnard; con., Ward & Blanding.

MERCANTILE BUILDINGS.

Lawrence, Mass.—*Essex St.*, five-st'y brick and stone block, flat roof, 60' x 78'; \$35,000; own, Wm. Oswald; arch., Arthur F. Gray, Boston; not let.
OFFICE-BUILDINGS.
Detroit, Mich.—Donaldson & Meier are preparing plans for the Union Trust Co.'s building, cor. Congress and Griswold Sts.; about \$400,000.
New York, N. Y.—*Maiden Lane*, No. 66, twelve-st'y brick office-building, 32' x 62' x 72', 158' high, flat and mansard, asphalt and slate roof; \$109,000; own, Christopher Wolf, Tuxedo Park, N. Y.; arch., H. J. Hardenburgh, 10 West 23d St.
Cedar St., *Temple St.*, to Trinity Pl., eleven-st'y brick office-building, 100' x 61', 144' high, mansard and flat slate and gravel roof; \$250,000; own, Fidelity and Casualty Co., 140 Broadway; arch., Cyrus L. W. Elditz, 160 Fifth Ave.

PUBLIC BUILDINGS.

Baltimore, Md.—Plans of Messrs. Wyatt & Nolting, arch., have been accepted for the proposed new court-house; \$2,500,000.
Cuero, Tex.—\$70,000 court-house will be erected; arch. and con., A. O. Wilson, Austin, Tex.
New York, N. Y.—*One Hundred and Thirty-seventh St.*, s s, 231 e Alexander Ave., three-st'y brick fire-engine house, 25' x 80', 50' high, flat tin roof; \$22,000; own, City of New York; arch., N. Le Brun & Son, 1 Madison Ave.

BUILDING INTELLIGENCE.

(Public Buildings Continued.)

Norristown, Pa.—Plans have been prepared by Thomas P. Lonsdale, arch., Manhattan Life Building, Walnut and 4th Sts., Philadelphia, for borough building and market-house; about \$140,000.

STABLES.

Boston, Mass.—*Hillside St.*, near Adams St., Ward 24, one-st'y frame stable, flat roof, 30' x 84'; own and bid., W. C. Hall.
Crestwood Terrace, Ward 24, one-st'y frame stable, hip roof, 25' x 41'; own, R. J. Todd, 72 Beverly St.
School St., No. 116, rear, Ward 23, two-st'y frame stable, hip roof, 20' x 20'; own, Conrad Decker; bid., M. A. Blanchard.
Brookline, Mass.—*Chestnut Hill*, frame stable for Hamilton Perkins; arch., Longfellow, Alden & Harlow, Boston; not let.
Brooklyn, N. Y.—*Wyckoff Ave.*, n s, 200' e Nevins St., two-st'y brick stable, 30' x 95', gravel roof; \$3,000; own, P. J. Durfey, 160 Park Pl.
South Second St., No. 358, two-st'y brick stable, 30' x 36', gravel roof; \$5,000; own, L. T. Bell, 81 Vernon Ave.; arch., Child & De Goli, 62 New St., New York City.

Buffalo, N. Y.—Two-st'y brick and stone stable with coachman's apartments, flat roof, 50' x 150'; \$30,000; own, Truesman G. Avery; arch., E. A. P. Newcomb, Boston, Mass.; not let.

Chicago, Ill.—William Moxley, two-st'y stable, 406-408 Monroe St.; \$7,000.
F. D. Foster, two-st'y stable and flats, 160 Forty-third St.; \$5,000.

New York, N. Y.—*East Sixty-sixth St.*, Nos. 128-132, three-st'y brick stable, 52' x 100', 42' high, flat tin roof; \$50,000; own, Henry O. Havemeyer, Greenwich, Conn.; arch., W. J. Wallace, 3 Union Square.
One Hundred and First St., 150' e Amsterdam Ave., two-st'y brick stable, 50' x 90', 31' high, flat gravel roof; \$18,000; own, Edward T. Carr, 890 West Boulevard; arch., Alexander Fowler, 701 East 135th St.

Philadelphia, Pa.—*F Ave.*, n w cor. 18th St., one-st'y frame stable; own, Henry Sperrzell, F Ave. and 18th St.

Delphi St., w s, n Diamond St., two-st'y brick stable, 32' x 62'; con., S. S. Leister, 2214 Lambert St.
Vienna St., No. 1335, two-st'y brick stable; con., James Macaulay & Sons, 1328 East Montgomery Ave.

Fourth St., above Girard Ave., three-st'y brick livery stable, 36' x 100'; con., George Kessler, 1543 Perth St.

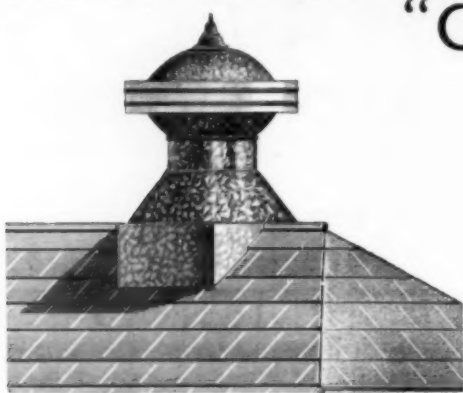
Sumac St., No. 158, one-st'y brick stable; own, S. H. Yerkes, 2331 North 21st St.

Worcester, Mass.—*Norfolk St.*, one-and-one-half-st'y frame stable; own, I. A. White; con., Brouillette Bros.

STORES.

Chester, Pa.—Plans have been drawn by James MacMichael for 6 stores for C. M. Black.

Chestnut Hill, Pa.—*Germantown Ave.*, near Springfield Ave., two-and-a-half-st'y brick store and dwell. with one-st'y frame back building; con., John B. Groff, 400 Airy St., Norristown, Pa.



"COME OFF THE ROOF"

may be a slang expression, but it doesn't apply to

GLOBE VENTILATORS.

They "Get there" and "Stay there."

Through sunshine and through storm, doing their work silently, steadily, satisfactorily.

Send for Special Pamphlet on Ventilation.

MANUFACTURED BY

GLOBE VENTILATOR COMPANY,
TROY, NEW YORK.

BUILDING INTELLIGENCE.

(Stores Continued.)

Chicago, Ill.—John Reggka, two-st'y store and flats, 697 North Ashland Ave.; \$5,000.
S. Inlander, three-st'y store and flats, 5210 South Ashland Ave.; \$4,000.
Thomas More, two-st'y store and flats, 795 One Hundred and Nineteenth St.; \$3,500.
C. E. Adams, three-st'y store and flats, 467 Lincoln St.; \$6,000.
D. G. Kennedy, four-st'y store and flats, 320 Washington Boulevard; \$20,000.
Mrs. S. M. Kerwin, four-st'y store and flats, 5500 55th Wentworth Ave.; \$3,000.
James McLaughlin, two-st'y store and dwell., 9146 Commercial Ave.; \$3,200.
Jacob Kraft, three-st'y store and dwell., 163 Augusta St.; \$6,000.
M. B. Hanson, three-st'y store and flats, 294 Indiana St.; \$6,000.
John Johnson, three-st'y store and flats, 1519 Milwaukee Ave.; \$4,000.
L. Runcle, two-st'y store and flats, 927 Chicago Ave.; \$4,500.
S. Blaisdell, three-st'y store and flats, 795 West Van Buren St.; \$6,000.
Ed. McWave, two-st'y store and flats, 511-513 South Clark St.; \$4,000.
Max S. Kuder, four-st'y store and flats, 881 Twenty-first St.; \$8,000.
H. Reuttorff, one-st'y store, 289-295 North Ave.; \$10,000.
Timothy Kelleher, three-st'y store and flats, 758 Forty-seventh St.; \$7,500.
A. P. Cullen, four-st'y store and flats, 570 Morgan St.; \$10,000.
John Mix, two-st'y store and flats, 686 North Ashland Ave.; \$3,000.
W. A. Colvin, two-st'y store and offices, 4701-4709 Cottage Grove Ave.; \$9,000.

Detroit, Mich.—J. Pickard, frame double store, 1913-15 Jefferson Ave.; \$3,000.
H. George & Son, six-st'y brick store, 207-11 Woodward Ave.; \$65,000.
T. W. Palmer, brick store, West Larned St.; \$40,000; arch., Mason & Rice.

New York, N. Y.—Ferry St., s. s., 108' 9" e Gold St., five-st'y brick store-building, flat tin roof, 21' 9" x 57' 9", 60' high; \$15,000; own., Joseph Hecht, 44 East 68th St.; arch., Buchman & Deisler, 11 East 59th St.

Bond St., No. 20, seven-st'y brick store, flat tin roof, 25' x 100', 85' high; \$50,000; own., Benedict A. Klein, 125 East 120th St.; arch., Cleverdon & Putzel, 13 Astor Pl.

Fourth Ave., No. 54, five-st'y brick store, flat tin roof, 25' x 98', 71' high; \$17,000; own., Henry Hilton, 7 West 34th St.; arch., Charles T. Wills, 21 East 20th St.

Philadelphia, Pa.—Tree St., s. e. cor. 11th St., three-st'y brick store and dwell.; own., Alexander Cowan, 2239 South 5th St.

Euclid Ave., n. s. s. bet. 13th and 31st Sts., 3 three-st'y brick stores and dwells, with back buildings; own. and bld., William G. Scerrill, 1750 North 15th St.

Vienna St. and Frankford Ave., one-st'y brick store; own., Pennsylvania Asphalt Co., 1821 South 15th St.; con., William J. Smith.

Thirteenth St., s. w. cor. South St., brick store and dwell.; con., George L. Harvey; own., Samuel Forsythe.

Riethoven St. w. s. n. Cumberland St., 2 three-st'y brick stores and dwells; own. and bld., John Loughran, 2238 North Broad St.

Lombard St., n. w. cor. 3d St., three-st'y brick store and dwell.; con., Michael Whelan, 1225 Snyder Ave.

St. Louis, Mo.—Six three-st'y stores, n. e. cor. 15th and Chestnut Sts.; \$12,000; own., J. Hayes; bld., J. Annen.

TENEMENT HOUSES.

Boston, Mass.—Palmer Pl., Ward 20, three-st'y frame tenement-house, flat roof, 40' x 54'; \$6,000; own., Chas. H. Johnson; bld., D. McDonald; arch., E. A. P. Newcomb.

Philadelphia, Pa.—Rainbridge St., s. s. e. 4th St., 2 four-st'y brick and stone tenement-houses with back buildings; con., W. B. Scott, Moyamensing Ave.

WAREHOUSES.

Philadelphia, Pa.—Commerce St., Nos. 515-517, five-st'y warehouse and stores, slow-burning construction, brick and stone; con., John Duncan, 905 Chant St.; arch., Wilson Eyre, Jr., 927 Chestnut St.

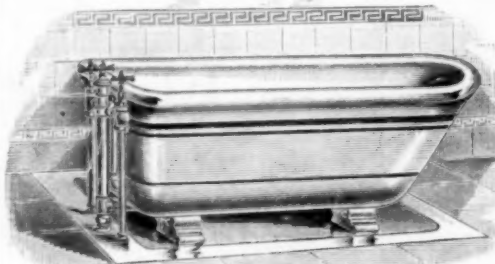
MISCELLANEOUS.

Boston, Mass.—Ricer St., Ward 24, two-st'y frame structure, flat roof, 33' x 75'; first story for 3 stores; second story for Mattapan Cycle Club; own., James A. Hersey, River St.

Washington St., near Cohasset St., Ward 23, three-st'y frame building for mechanical purposes, pitch roof, 18' x 50'; own., Wm. Stafford, 4275 Washington St.; bld., M. Hatfield.

Bridgeport, Conn.—Masonic Temple Association, five-st'y stone and brick building; \$60,000.

Chicago, Ill.—N. P. R. R. Co., two-st'y frame depot, 2310 sixty-third St.; \$2,400.
Laver Timber Lake Co., brick elevator, 286-312 Cherry Ave.; \$9,000.



Put into the White House by the U. S. Government.



For venting, use vent-top. For venting, use vented outlet

F. E. CUDELL'S
PATENT SEWER-GAS AND BACK-WATER TRAP,
For Wash-Bowls, Sinks, Bath and Wash-Tub
West Cleveland, O.

BUILDING INTELLIGENCE.

(Miscellaneous Continued.)

Louis I. Aaron & Co., brick elevator, L. S. R. R. Tracks and 102d St.; \$30,000.
City of Chicago, one-st'y brick boiler-house, Seipp Ave. and 70th St.; \$5,000.

Frankford, Pa.—Frankford Ave., above Unity St., two-st'y brick and stone depot, 48' x 32'; own., Philadelphia and Frankford Railway Co.; con., F. S. Hoover & Son, 703 Jayne St.

Germantown, Pa.—Manheim St., s. w. cor. Pulaski Ave., two-st'y stone parish building, 52' x 75'; con., Thomas M. Seeds, Jr., 1025 Race St.

Newton Centre, Mass.—Stone and brick structure for the Newton Theological Seminary Library, hip roof, 50' x 100'; arch., Kendall & Stevens, Boston.

Philadelphia, Pa.—Hancock St., w. s. n. Huntingdon St., two-st'y brick dye-house, 20' x 66'; con., Charles Auchter, 1523 North 27th St.

Oxford St. and Germantown Ave., two-st'y brick and stone bottling-house for Reger & Greitz; arch., Jacob Herold, 441 Chestnut St.

Bridge St., s. w. s. bet. Charles and Walker Sts., two and four-st'y brick, stone and iron ice-machine and boiler-house for brewery, stack, 110' high; con., Louis R. Elliott, 1700 North 18th St.; own., A. Erdrich & Son; about \$20,000.

Fifth St., e. s. n. Pike St., three-st'y brick boiler and drying-house; con., Peter Hoffman, 1908 Ontario St.

Shawmont Ave., Philadelphia and Reading Railroad Track, on river bank, one-st'y brick, stone, iron and steel electric railway power-house, 50' x 90'; own., Manayunk & Roxborough Incline Railway Company, 707 Arch St.

Jackson St., n. e. cor. Juniper St., one-st'y brick car-shed, 85' x 280'; con., Samuel Hart & Sons, 1109 Fairmount Ave.; own., Philadelphia Traction Co.; about \$14,000.

South Fourth St., No. 755, four-st'y brick and stone store and tenement-house with back building; con., W. B. Scott, 1918 Moyamensing Ave.

PROPOSALS.

SCHOOL-HOUSE.

[At Gillett, Ark.]
Proposals are wanted for a brick school-house. Address W. C. CHAMPION, as above. 969

SCHOOL-HOUSE.

[At Riverside, O.]
Proposals are wanted until August 3, for a school-house. Address J. M. BARKLEY, as above. 970

Treasury Department, Office Supervising Architect, Washington, D. C., July 11, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 14th day of August, 1894, and opened immediately thereafter, for all the labor and materials required for the erection and completion of the United States Post-office building at Meridian, Miss., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Meridian, Miss. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right

REGAL

Porcelain Roll-Rim French Baths.

We have lately perfected arrangements to import Solid Porcelain Baths and will handle only the finest that can be produced.

For cleanliness, beauty and healthfulness they cannot be surpassed, and for luxurious bathing they are simply perfection.

Have you seen our new Catalogue A? It's a beauty. Send for it.

HAINES, JONES & CADBURY CO.,
Mfrs & Importers High Class Plumbing Goods
1136 Ridge Ave., Philadelphia.

THE COLUMBUS SINK DISPLACES ALL OTHERS

PAINTED, GALVANIZED, ENAMELED.

Send for descriptive circular and prices, to

The Kilbourne & Jacobs Mfg. Co.

Sole Manufacturers. — COLUMBUS, OHIO.

THE VAN VRANKEN FLUSH TANK.

For Sewers, Subsoil Disposal, etc.

For catalogues, discounts and other particulars, address

J. LELAND FITZGERALD,

437 STATE STREET, SCHENECTADY, N. Y.

PROPOSALS.

is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for the Erection and Completion of the United States Post-office building at Meridian, Miss.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 970

Proposals for Iron Furring and Lathing. Office for Building for Library of Congress, 145 East Capitol St., Washington, D. C., July 19, 1894. Sealed proposals for furnishing, delivering and putting in place complete, the iron furring and lathing required for the ceilings of the north, east and south curtains, second story, of the Building for Library of Congress, in this city will be received at this office until 2 o'clock P. M., on Saturday, the 4th day of August, 1894, and opened immediately thereafter in presence of bidders. Specifications, general instructions and conditions and blank forms of proposal may be obtained on application to this office. BERNARD R. GREEN, Superintendent and Engineer. 970

Treasury Department, Office Supervising Architect, Washington, D. C., July 7, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 3d day of August, 1894, and opened immediately thereafter, for all the labor and materials required for the Surgeon's House (except heating apparatus) and Isolated Ward for the United States Marine Hospital, Detroit, Mich., in accordance with drawings and specification, copies of which may be had at this office or the office of the Superintendent at Detroit, Mich. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated for opening will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Surgeon's House and Isolated Ward building for the United States Marine Hospital, Detroit, Mich.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 969

Treasury Department, Office Supervising Architect, Washington, D. C., July 7, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 31st day of July, 1894, and opened immediately thereafter, for the plumbing, gas-piping and electric-wire conduits for the United States Custom-house and Post-office building at Newark, N. J., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Newark, N. J. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Plumbing, Gas-piping and Electric-wire Conduits for the United States Custom-house and Post-office building at Newark, N. J.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 969

Fireproof Building.

RARITAN HOLLOW & POROUS BRICK CO.,
 MANUFACTURERS OF
Hollow Fire-Clay and Porous Terra-Cotta Bricks
 of Every Description, for Fireproof Buildings.
BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.
 Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.
 Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.
HENRY MAURER & SON,
 Manufacturers of
FIRE-PROOF BUILDING MATERIAL
 Of every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.
 Porous Terra-Cotta, Fire-Brick, etc., etc.
 Works, MAURER, N. J. Office and Depot, 420 EAST 23d STREET, New York.
 Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."

C. PARDEE } Manufacturers All Kinds Fireproof Building Materials, etc.
WORKS, } Perth Amboy, N. J. See ad. on page XVI.

PIONEER FIREPROOF CONSTRUCTION CO.

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile AND Porous Terra-Cotta

FOR FIREPROOFING BUILDINGS.

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

TO ARCHITECTS,
 BUILDERS
 AND OWNERS.

Sample and Circulars Free.

MINERAL WOOL,

As a Lining in Walls and Floors for preventing the
 ESCAPE OF WARMTH AND THE DEADENING OF SOUND.

AMERICAN MINERAL WOOL CO.

Lessee of
 Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N. Y. City.

Roebling STANDARD Wire Lathing

FIREPROOF—DURABLE—ECONOMICAL

Pays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures
 a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three
 public tests—detailed accounts of which will be mailed to any address upon request.

THE NEW JERSEY WIRE CLOTH COMPANY,
TRENTON, N. J.

Building Stones.

J. P. FALT & COMPANY,

Quarrymen & Miners of

RED SANDSTONE.

Contractors for CUT-STONE WORK.

Proprietors of Carlisle Quarries, Springfield, Mass.
 Prices for rough stone furnished on application,
 and estimates made for cut-stone work to be delivered
 at any railroad point. Correspondence solicited.
 Send for samples.

BOSTON FIRE-BRICK WORKS.**FRONT BRICK**

BUFF, BROWN, MOTTLED YELLOW,
 GRAY, OLD GOLD AND
 OTHER COLORS.

**ARCHITECTURAL
 TERRA-COTTA**

In all its varied colors and forms.

FISKE, HOMES & CO.,

MANAGERS,

Factories on Federal Street and
 at South Boston.

Office 164 Devonshire St., Boston.

Times Building, Park Row, New York.

927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.

SOLE OWNERS AND MANUFACTURERS OF

J. G. MERRILL'S PATENT

SALAMANDER

Fire-Proof Composition

FOR BUILDINGS.



Used as Lining between
 Floors, and upon Walls,
 Ceilings, Elevator and
 Light Shafts, Boiler Rooms,
 Doors, Shutters, etc. It is
 Air, Dust, and Vermin
 Proof, and a Sound-

Deadener. Office, 166 Devonshire Street, BOSTON.
 A. J. HODDER, Pres. CHAS. T. MAKER, Treas. W. D. LOMBARDO, Gen. Mgr.
 Room 41 Master Builders Association Building



For estimates on

**ASPHALT
 WORK**

of every descrip-
 tion apply to Man-
 ager,

T. Hugh Boorman,

N. Y. Mastic Works, 35 Broadway, N. Y.
 Asphalt Mine Owners in France, Sicily, etc.

BROOKS, SHOOBRIDGE & CO.,

PORTLAND CEMENT.

Works: Grays, Essex, England.
 New York Office: 7 Bowling Green.

Massachusetts Material-Men and Contractors.

ARTIFICIAL STONE.	FIREPROOFING.	HEATING CONTRACTOR.	PAPIER MACHÉ.
SIMPSON BROS. 166 Devonshire St. Boston, Mass.	BOSTON FIREPROOFING CO. 166 Devonshire St. Boston, Mass.	W. E. FLORENCE, 247 Pynchon St. Boston, Mass.	CONLAN & MAYBECK, 65 Warcham St. Boston, Mass.
BUILDING CONTRACTORS.	FURNACES.	IRON WORKS. (Building)	PRINTING.
LITTLEFIELD BUILDING CO. Incorporated. Room 57, 166 Devonshire St. Boston, Mass.	CYRUS CARPENTER & CO. 44 Hanover St. Boston, Mass.	R. F. HAWKINS' IRON WORKS, Springfield, Mass.	S. J. PARKHILL & CO. 218-226 Franklin St. Boston, Mass.
CARVERS, MODELLERS.	GRANITE.	MANTELS. (Wood)	SASH CORD.
JOHN EVANS & CO. 77 Huntington Ave. Boston, Mass.	GRANITE RAILWAY CO. 166 Devonshire St. Boston, Mass.	J. W. BAILEY & SONS CO. 14 Charlestown St. Boston, Mass.	SILVER LAKE CO. 78 Chauncy St. Boston, Mass.
ELECTRIC WORK.	HEATING. (Air & Water)	MASON CONTRACTORS.	SLATE. (Roofing)
BLODGETT BROS. & CO. 383 Federal St. Boston.	MAGEE FURNACE CO. 30-8 Union St. Boston, Mass.	THOMAS J. LYONS, 166 Devonshire St. Boston, Mass.	H. H. MATHEWS, 178 Devonshire St. Boston, Mass.

Bricks and Terra-Cotta.

HYDRAULIC BRICK,
PLAIN AND MOULDED
OF ANY COLOR.RED, BUFF, GRAY, BROWN,
PINK, MOTTLED, GRANITE.

Total Annual Capacity, 100,000,000.

HYDRAULIC-PRESS BRICK CO.,

ODD FELLOWS' BUILDING,

ST. LOUIS, MO.

**PERTH AMBOY
TERRA-COTTA COMPANY,**

PERTH AMBOY, NEW JERSEY.

OFFICE, 289 Fourth Ave., NEW YORK.

PHILADELPHIA
OFFICE,
PERKINS BLDG.BOSTON AGENTS,
WALDO BROS.,
38 Water Street.**TIFFANY PRESSED BRICK CO.,**

Manufacturers of

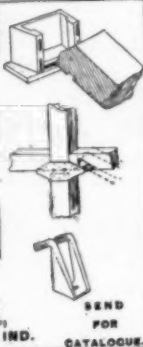
Pressed and Enamelled Brick,

Plain and Ornamental,

403 Chamber of Commerce Bld'g,
CHICAGO.**"Architects" SPECIFY
LAFARGE'S CEMENT**

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,Importer and Sole Agent,
81 and 83 Fulton St., N. Y.**GOETZ BOX ANCHOR**SELF RELEASING AND PREVENTS
DRY ROT IN TIMBER.**GOETZ POST CAP**STRONGEST OF ALL AND YET
SELF RELEASING.**GOETZ JOIST HANGER**WROUGHT IRON MACHINE MADE.
STRONGEST AND CHEAPEST.BORE TWO HOLES. NO MORTISING.
GOETZ BOX ANCHOR CO.,
72 STATE ST., NEW ALBANY, IND.SEND
FOR
CATALOGUE.**NEW YORK
ARCHITECTURAL TERRA COTTA
COMPANY.**OFFICE,
38 PARK ROW,
New York City.WORKS,
LONG ISLAND CITY,
New York.

GENERAL AGENTS FOR NEW ENGLAND:

BOSTON FIRE BRICK COMPANY,
Fiske, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.**STEPHENS, ARMSTRONG & CONKLING,**
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, - - - Philadelphia, Pa.**— INDIANAPOLIS —
TERRA-COTTA CO.**

Works: Brightwood, Ind.

ESTIMATES ON SPECIAL DESIGNS PROMPTLY
FURNISHED. WRITE FOR CATALOGUE
AND DISCOUNTS.SEMI-GLAZE OR DEAD-FINISH.
ALL COLORS.**POMPEIIAN,
BUFF AND RED PRESSED,
ALSO ORNAMENTAL**

FACE BRICK MANUFACTURE.

CAPACITY, 100,000,000 PER ANNUM.

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

**FRONT BRICKS
— AND —
TERRA-COTTA**

— IN OVER TWENTY COLORS. —

Chimney Flue Linings, Chimney Tops, Drain
Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,
86 WATER STREET. - - BOSTON.**THE
Northwestern Terra-Cotta Co.**
Manufacturers of**Architectural Terra-Cotta.**WORKS & MAIN OFFICE:
Cor. Clybourn & Wright-
wood Avenues.CITY OFFICES:
Room 1118 Rookery Bldg.
cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for
Catalogue and Samples.**BRICK** OF ANY COLOR
AND
OF ALL SHAPES.

BRICK FIREPLACES.

BALTIMORE ROOFING TILE CO.

BURNS, RUSSELL & CO., Proprietors,

535 Columbia Avenue, Baltimore, Md.,

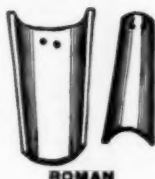
MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other
styles of Clay Roofing Tiles in all colors,
glazed or unglazed.

CATALOGUE ON APPLICATION.



NO. 3 SPANISH.



ROMAN

C. PARDEE WORKS, Perth Amboy, N. J.
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIREPROOF BUILDING MATERIALS, ETC.**Giant Metal Sash Chain.**

MADE ONLY BY

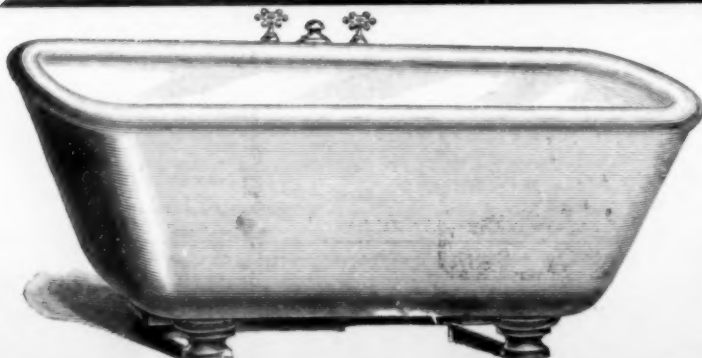
THE SMITH & EGGE MANUFACTURING CO.,
BRIDGEPORT, CONN.

The most reliable and economical article in the market for the purpose. GREAT TENSILE STRENGTH. Does not corrode; does not lose its vitality by continuous use, or exposure to the elements; runs over any pulley, and gives satisfaction wherever it is used. Fixtures made of steel wire, is very simple and easily applied. Prices very low. Samples sent to any architect in the United States, free, on application. Now in use in State House, Hartford; Providence City Hall; Singer Building, Chicago; J. C. Flood's, Menlo Park, Cal.; Vancouver and Florence Flats, New York; Boreel Building, New York; new State, War and Navy Departments, and Patent Office, Washington, D.C.; Herald Building, Boston, and very many other fine buildings in all parts of the United States.

DIXON'S GRAPHITE PAINTFOR TIN OR SHINGLE ROOFS AND IRON WORK.
IT IS ABSOLUTELY WITHOUT AN EQUAL.Tin roofs well painted have not re-
quired repainting for 10 to 15 years.

If you need any paint it will pay you to send for circular.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

Porcelain Bath Tubs**"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.****"SLUICE" Syphon Jet Water Closet.****MINTON'S TILES**For Bathrooms, Halls and Vestibules; Glazed,
Unglazed and Enamelled.**MILLER & COATES, 279 PEARL STREET
NEW YORK.**260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.

THE ONLY MEDAL AND AWARD FOR SHINGLE STAINS
At the World's Columbian Exposition
HAS BEEN AWARDED TO
DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.



In Coverings:

Fireproof for safety. Sectional for convenience. Efficient for economy. All combined in **MAGNESIA** goods.

THE KEASBEY & MATTISON CO. (Successors to the MAGNESIA SECTIONAL COVERING CO.), Ambler, Pa.
ROBERT A. KEASBEY, 54 Warren Street, New York. **S. C. NIGHTINGALE & CHILDS**, 134 Pearl Street, Boston, Mass.

NOW READY PARTS III AND IV OF "NORMAN MONUMENTS OF PALERMO AND ENVIRONS."

PEERLESS COLORS FOR MORTAR.

BLACK, RED, BROWN, BUFF. NEW COLORS, MOSS GREEN, ROYAL PURPLE, FRENCH GREY, POMPEIIAN BUFF, COLONIAL DRAB.
THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.

ALSO
PLASTER ARCHITECTURAL ORNAMENTS FROM ORIGINAL AND SPECIAL DESIGNS.

SAMUEL H. FRENCH & CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.

Classified Advertisements.

[Advertisers can be indexed only under a single head free of charge].

- Announcers.**
W. R. Ostrander & Co., New York.....
Architects.
Bulley & Truett, Philadelphia, Pa. (mon)
F. E. Kidder, Denver, Col.....
Architect's Materials.
Frost & Adams, Boston..... (sow)
Architectural Iron Work.
Globe Iron Works, Chicago, Ill.....
Architectural Wood-Work.
Havlan & Hollingsworth Co., Wilmington, Del.
Artificial Limbs.
A. A. Muray, New York..... (mon)
Art Metal Work.
Ludlow Taylor Wire Co., St. Louis, Mo. (mon)
Asbestos Felt & Boiler Coverings.
H. W. Johns Mfg. Co., New York.....
Asbestos Paint.
H. W. Johns Mfg. Co., New York.....
Asphalt.
Neuchatel Asphalt Co., New York.
New York Asphalt Works, New York, N. Y.
Asphalt Roofing.
Warren Chemical & Mfg. Co., New York.....
Basin Cocks.
Stebbins Mfg. Co., Brighton, Mass. (sow)
Bath-Tub.
Fred. F. Buschhoff & Co., Chicago, Ill. (mon)
Miller & Coates, New York.....
J. L. Mott Iron Works, New York.....
Bells.
Blake Bell Co., Boston, Mass.....
H. S. Tubular Bell Co., New York.....
Blue Prints.
Spaulding & Moss, Boston, Mass. (sow)
Boilers.
Babcock & Wilcox Co., New York.....
Books and Journals.
Lubbock & Wilcox Co., New York.....
Wm. T. Comstock, New York.....
Tucker & Co., Boston.....
Box Anchors.
Goetz Anchor Box Co., New Albany, Ind.....
Brick (Colored).
Jarden Brick Co., Philadelphia, Pa.....
Brick (Enamelled and Pressed).
Tiffany Pressed Brick Co., Chicago, Ill.....
Brick (Ornamental).
Fleming Cement & Brick Co., New York (sow)
Hydraulic Press Brick Co., St. Louis.....
Waldo Bros., Boston.....
Bronze-Work.
M. J. Power, New York.....
Bronze and Brass Work.
Paul E. Cabaret, New York, N. Y.....
Building Brick.
Marx & Gardner, Palmer, Mass. (sow)
Building Felt (Fire and Waterproof).
H. W. Johns Mfg. Co., New York.....
Carpet.
John H. Gray, Sons & Co., Boston.....
Ceilings (Metal).
H. S. Northrop, New York, N. Y.....
N. Y. Metal Ceiling Co., N. Y. City (sow)
Penn Iron Roofing & Corrugating Co. (Lim.), Philadelphia, Pa. (mon)
Cement (Hydraulic).
F. O. Norton Cement Co., N. Y.....
Cement.
Allen's Cement Works, New York, N. Y. (sow)
Buckeye Portland Cement Co., Bellefonte, Pa., Ohio.....
James Brand, New York, N. Y.....
Brooks, Brookbridge & Co., New York.....
Fleming Cement & Brick Co., New York (sow)
Johnson & Wilson, New York.....
Lawrence Cement Co., New York, N. Y. (sow)
S. Thiele, New York, N. Y.....
Chrome Steel Castings.
Chrome Steel Works, Brooklyn, N. Y. (sow)
Conductors (Water).
Lamb & Ritchie, Cambridgeport, Mass.....
Conservatories.
Lord & Burham Co., Irvington-on-Hudson, N. Y.....
Consulting Engineer.
George Hill, New York, N. Y.....
Contracting.
Flynt Building & Construction Co., Palmer, Mass.....
Cordage.
Samson Cordage Works, Boston. (sow)
Correspondence School.
School of Mechanical and Industrial Science, Scranton, Pa.
Crosscut Saws.
S. Cabot, Boston, Mass.....
Coverings.
(Boiler & Pipe).
H. W. Johns Mfg. Co., New York, N. Y.....
Decorative Glass.
Metallic Tinting Co., Providence and Boston.....
Decorators.
L. Haberstroh & Son, Boston.....
Door-Knobs.
J. Bardsley, New York, N. Y.....
Door-Hangers.
Lane Bros. Poughkeepsie, N. Y.....
Elevators, etc.
Elektron Mfg. Co., Springfield, Mass.....
Graves Elevator Co., Rochester, N. Y.....
Moore & Wyman, Boston.....
Morse, Williams & Co., Philadelphia.....
Otis Brothers & Co., New York.....
Penn. Elevator Engineering Co., Philadelphia.
Standard Elevator Co., Chicago, Ill.....
Whittier Machine Co., Boston.....
Fan (Ventilating).
Haylett & Smith Mfg. Co., Detroit, Mich.....
Fireproof Building.
Henry Maurer, New York.....
Flosser Fireproof Construction Co., Chicago, Ill.
Fireproofing.
American Fireproofing Co., Boston, Mass.....
Fireproof Lathing.
Hayes Metallic Lathing, New York.....
Fireproof Material.
C. Pardee, North Amboy, N. J.....
Floors (Inlaid).
National Wood Mfg. Co., N. Y.....
Flush Tank.
J. Leland Fitzgerald, Scherestady, N. Y.....
Gates.
Wm. A. Pitt, New York, N. Y. (mon)
Glass (Beveled and Ornamental).
Maitland Armstrong & Co., New York.....
Matthews Decorative Glass Co., New York.....
Metally Glass Co., Chicago, Ill. (mon)
Tiffany Glass & Decorating Co., New York.....
Grates, etc.
E. A. Jackson & Bro., New York, N. Y.....
Wm. H. Jackson & Co., New York.....
Greenhouses.
Hitchcock & Co., New York, N. Y.....
Hardware (Art).
Vale & Towne Mfg. Co., Stamford, Ct.....
Hardware.
(Buildings).
Burditt & Williams, Boston, Mass.....
Heaters (Steam and Hot Water).
George H. Bell & Co., New York.....
Heating and Ventilating.
Ferry N. Kearsay, Boston, Mass.....
Smith & Anthony Stone Co., Boston.....
Heating-Apparatus (Hot Water).
Turney Heater Mfg. Co., Boston.....
Wilks Mfg. Co., Chicago..... (mon)
Heating-Apparatus (Steam).
American Heater Co., Boston, Mass.....
Gordon & Listerwood Co., New York..... (sow)
H. B. Smith Co., New York.....
Heliotype Process.
Heliotype Printing Co., Boston.....
Hot-Blast Apparatus.
Hayett & Smith Mfg. Co., Detroit, Mich.....
Insulated Wire.
W. H. Brisky, New York, N. Y. (sow)
The Olmsted Co., (Lid.) New York, N. Y. (sow)
Insurance.
Continental Insurance Co., N. Y. (sow)
Iron-Work (Architectural).
Belmont Iron Works, Philadelphia, Pa. (sow)
Jackson Architectural Iron Works, N. Y.....
Passaic Rolling Mill Co., Paterson, N. J.....
Rumsey Iron Co., Philadelphia.....
Iron (Galvanized).
Anolite Iron & Steel Co., Pittsburgh, Pa.....
Laundry Machinery.
Troy Laundry Machinery Co., Troy.....
Mail Chutes.
Cutler Manufg. Co., Rochester, N. Y.....
Marble Mosaic.
Aschliman & Polmar, New York.....
Marble-Workers.
Batterson, See & Elsie, New York.....
Robert C. Fisher & Co., New York.....
Metal Lathing.
Cincinnati Corrugating Co., Fiqua, Ohio.....
G. Hayes, New York.....
Metal-Work.
(Wrought).
Paul E. Cabaret, New York.....
John Williams, New York.....
Mineral Wool.
American Mineral Wool Co., New York.....
Mortar Colors.
Samuel H. French & Co., Philadelphia.....
Nurserymen.
C. G. Abel & Co., New York..... (sow)
Organ Builders.
Farland & Votey Organ Co., New York (mon)
Paint.
F. W. Devos & Co., New York..... (sow)
Joseph Dixon Crucible Co., Jersey City, N. J.....
H. W. Johns Mfg. Co., New York.....
Patent Lawyers.
Howson & Howson, Philadelphia..... (sow)
Photographs.
I. W. Taylor, Chicago, Ill.....
Plumbers.
T. H. Duggan, Boston.....
Pumps (Steam).
H. R. Werthingham, New York and Boston.....
Ranges.
L. A. Sheppard & Co., Philadelphia, Pa.....
Refrigerators.
L. P. Frank, New York.....
Refrigeration.
McCreary Refrigerator and Cold Storage Co., Kendallville, Ind.....
Wickes Refrigerator Co., New York, N. Y.....
Rolling-Shutter.
J. G. Wilson, New York.....
Roofers.
Burger Bros., Philadelphia, Pa.....
John Farquhar's Sons, Boston.....
James A. Miller & Bro., Chicago, Ill.....
Roofing Materials.
Corright Metal Roofing Co., Philadelphia, Pa.....
Thomas J. Hind, Boston..... (sow)
N. & G. Taylor Co., Philadelphia, Pa. (sow)
N. E. Felt Roofing Works, Boston.....
Thorn Shingle and Ornament Co., Phila., Pa.....
Roofing Tiles.
Baltimore Roofing Tile Co., Baltimore, Md.....
Sanitary Supplies.
Laine, Jones & Cadbury Co., Philadelphia, Pa.
Smith & Anthony Co., Boston.....
Shack-Chains.
Smith & Edge Mfg. Co., Bridgeport, Conn.....
Shack-Cords.
Samson Cordage Works, Boston..... (sow)
School of Architecture.
C. Powell Karr, New York, N. Y. (sow)
Somerset Drawn Copper Range Girders.
Randolph & Clowes, Waterbury, Conn.....
Sheet-Metal Work.
J. B. Thorn, Philadelphia..... (sow)
Shingle-Stains.
S. Cabot, Boston.....
Dexter Bros., Boston.....
Shutters.
Clark, Hunslet & Co., New York.....
Sidewalk Lights.
T. H. Brooks & Co., Cleveland, Ohio..... (mon)
Slats.
Kilbourne & Jacobs Mfg. Co., Columbus, O.....
Skylights, etc.
G. Brinkhous, New York.....
Paradigm Construction Co., New York.....
Vais & Young, Baltimore, Md.....
Slate.
Brown & Maine Slate Co., Worcester, Mass.....
Snow Guard.
Folsom Snow Guard Co., Boston..... (mon)
Steam Pipe Covering.
Keasbey & Mattison Co., Ambler, Pa.....
Steel Laths.
Central Expanded Metal Co., Pittsburgh, Pa. (sow)
Stone (Building).
J. F. Felt & Co., Springfield, Mass.....
Terra-Cotta.
Fiske, Holmes & Co., Boston.....
Indianapolis Terra-Cotta Co., Brighton, Ind.
New York Architectural Terra-Cotta Co., N. Y.
Perth Amboy Terra-Cotta Co., Chicago, Ill.
The Northwestern Terra-Cotta Co., Chicago, Ill.
Traps.
F. E. Cudell, Cleveland, O..... (sow)
Valves and Packing.
Jenkins Bros., New York.....
Varnish.
Murphy & Co., Newark, N. J.....
Vault Lights.
Dauchy & Co., Chicago.....
Vault Threshold.
G. S. Clark, Philadelphia, Pa..... (quar.)
Ventilation.
Globe Ventilating Co., Troy, N. Y.....
Wall Tie.
J. B. Prescott & Son, Webster, Mass..... (sow)
Wash Tubs.
Stewart Ceramic Co., New York..... (sow)
Water-Closet.
Fred Ades & Co., New York, N. Y. (sow)
Weather Vane.
T. W. Jo. Co., New York, N. Y.....
White Lead.
National Lead Co., New York, N. Y.....
Window-Line.
Samson Cordage Works, Boston..... (sow)
Window-Screens.
Metallic Window-Screen Manuf. Co., Boston, Mass.....
Wire Lathing, etc.
Clinton Wire Cloth Co., Clinton, Mass.....
New Jersey Wire Cloth Co., Trenton, N. J.....
Wood Carpet.
E. B. Moore & Co., Chicago, Ill. (sow)
Wood Filler.
Barnes Wood Finishing Co., New Milford, Conn.....

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th St.
NEW YORK CITY.

Designers and Manufacturers of...

MANTELS
OPEN FIREPLACES ..
GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 65 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.

PRIZE MEDALLISTS.

EXHIBITION OF 1862, 1865, 1867, 1872, 1873, AND ONLY AWARD AND MEDAL FOR NOISELESS, SELF-COLLING STEEL SHUTTERS AT PHILADELPHIA, 1876; PARIS, 1878; AND MELBOURNE, 1881.

CLARK, BUNNETT & CO. (Limited)

Late CLARK & COMPANY,

ORIGINAL INVENTORS AND SOLE PATENTERS OF NOISELESS

Self-Colling, Revolving **STEEL SHUTTERS** Fire & Burglar Proof.
Also Improved Rolling Wood Shutters, and Clark's Patent Metallic Venetian Blinds.

The BEST in the Market. Send for Catalogues, etc., to

162 and 164 West 27th St. - New York.

ALSEN'S

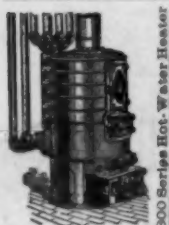
PORTLAND CEMENT

(GERMAN.)

The Strongest, Finest Ground and Most Uniform Cement Made in the World.

The Largest Works and Greatest Production.

U. S. OFFICE, 143 Liberty Street, NEW YORK.



HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.

We invite Correspondence.
Send for Catalogues.

HEAD
OFFICE:

Gurney Heater Mfg. Co. 163 Franklin St., Cor.
Congress, Boston, Mass.

SELLING AGENCIES. JOHNSON & CO., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHSEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.



HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.

Endorsed by the leading
Architects and Engineers.



JAS. G. WILSON,

Patentee and
Manufacturer,

74 West 23d St., New York.



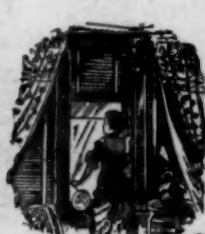
Rolling Steel Shutters.



Rolling Venetian Blinds.



Rolling Partitions.



English Venetian Blinds.

N.J. STEEL & IRON CO.,

TRENTON, N.J.

IRON AND STEEL BEAMS

CHANNELS, ANGLES & TEES

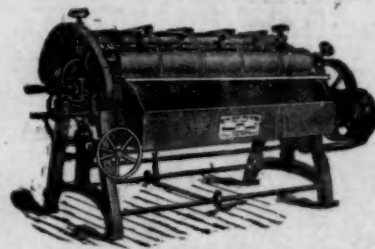
COOPER, HEWITT & CO.
NEW YORK

TROY LAUNDRY MACHINERY CO.

[LIMITED.]

FACTORIES: 648-650 Fulton St., Troy, N. Y.
395-405 Fifth Ave., Chicago, Ill.

SALESROOMS: 15 Warren St., New York.
681-683 Mission St., San Francisco, Cal.



Our line the largest and most complete in the world.

Send for Illustrated Catalogue Z.

The Temporary Binder

Provided by us will keep your copies of the American Architect in PERFECTLY uninjured condition.

Price \$1.35 postpaid.

CONTINENTAL INSURANCE COMPANY,

of NEW YORK CITY.

Extract from statement made Jan. 1, 1894.
CASH CAPITAL - \$1,000,000.00
RESERVES for insurance in force, etc. 3,856,575.95
NET SURPLUS - 1,576,596.38
POLICY HOLDERS' SURPLUS - 2,576,596.38
GROSS ASSETS - 6,433,171.33

SAFETY FUND POLICIES ISSUED.

F. C. MOORE, President, HENRY EVANS, Vice-President.
EDWARD LANNING, Secretary, CYRUS PECK, Treasurer.
WM. A. HOLMAN, Asst. Sec. R. J. TAYLOR, Man'g'r Loss Dept.
48 Cedar Street, New York.

C. H. DUTCHER, Secretary Brooklyn Dept., Court and Montague Sts., Brooklyn, N.Y.; J. J. McDONALD, Gen'l Manager Western Dept.; GEO. E. KLINE, Asst. to Gen'l Manager, Rialto Building, Chicago, Ill.; W. S. DUVAL, Gen'l Manager Pacific Coast Dept.; F. C. BARKMAN, Asst. to Gen'l Manager, 321 Pine St., San Francisco, Cal.

RESPONSIBLE AGENTS WANTED.



DRAWING-OFFICE.

Drawings rendered in line or color with reasonable despatch.

ADDRESS THE EDITORS OF THE AMERICAN ARCHITECT.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen'l Agts.,

Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Masons' Materials.

Send for Pamphlet.

THE AMERICAN ARCHITECT AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. XLV.—No. 970.]

SATURDAY, JULY 28, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS.
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Ricker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE. . . 20
Louis De Coppet Berg.
PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.
COOPER INSTITUTE.
E. A. Miller.
E. F. Maurer.
INSTITUTE OF ARTIST-ARTISANS,
140 West 23d Street.
John Ward Stimson.
METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.
S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Truscott.
UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

(Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.)

CONSTRUCTION.

BERG, LOUIS D'C. Two Vols., each \$5.00
"Safe Building."
New York (66 Fifth Ave.): Macmillan & Co.
CHANDLER, F. W. \$10.00
"Construction Details."
Boston (211 Tremont St.): Heliotype Printing Co.
CLARK, T. M. \$3.00
"Building Superintendence." Out.
New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts. \$2.00 each.
"Architectural Rendering in Pen and Ink."
Boston (211 Tremont St.).
WARE, WILLIAM R., PROFESSOR. \$5.00
"Modern Perspective."
New York (66 Fifth Ave.): Macmillan & Co.

STYLES.

GOTCH, J. A., and W. T. BROWN 6 Parts, \$48.00
Four Parts now ready
"Architecture of the Renaissance in England."
New York (743 Broadway) Charles Scribner's Sons.

WHITTIER MACHINE CO., ELEVATORS,

53 STATE STREET - - BOSTON.
33 LIBERTY STREET, NEW YORK.
526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD
For all kinds of
PASSENGER AND FREIGHT ELEVATOR SERVICE.
OTIS BROTHERS & CO.,
NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,
ELEVATOR AND MACHINE WORKS,
COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.
STEAM AND HYDRAULIC,
For Freight and Passenger use.

ELECTRIC ELEVATORS. THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,
For passenger and freight service.
Large experience. Many in use.
First cost moderate.
Running Expense much less than Hydraulic.
Also makers of low-speed Perret Electric Motors and Dynamos.

General office and factory, Springfield, Mass.
NEW YORK OFFICE, 126 Liberty Street.
BOSTON OFFICE, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES,
For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate. References, Principal Architects and Decorators of New York.
AESCHLIMANN & PELLARIN,
37 CLINTON PLACE,
Between Broadway and University Place, New York.

SANITARY CONDITION OF
DWELLINGS examined by T. H. DUGGAN,
Plumber, 141 DARTMOUTH STREET, BOSTON.
Fine Plumbing Materials, First-class Workmanship.
Telephone call, Tremont No. 165.

TIFFANY GLASS & DECORATING COMPANY

FURNISHERS OF GLASS WORKERS DOMESTIC & ECCLESIASTICAL
DECORATIONS. GD MEMORIALS
333 TO 341 FOURTH AVENUE NEW YORK

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHERE & Co.),
Importers and Workers of
MARBLE, ONYX AND GRANITE,
425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

F. O. NORTON CEMENT CO.,
Manufacturer of HYDRAULIC CEMENT.
Certificates of Tests and Reports on actual use furnished on application. 92 BROADWAY, N. Y.

STANDARD ELEVATOR CO.,

HIGHEST GRADE

PASSENGER
AND
FREIGHT } ELEVATORS.

OFFICE AND WORKS,

15th Street and Ashland Ave.,
Chicago, Ill.

PENN ELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.
PASSENGER AND FREIGHT ELEVATORS,
every description.
See our new Electric and Hydraulic before purchasing.
Works, Bloomsburgh, Pa.
Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.
GENERAL OFFICE, PALMER, MASS.

We contract to perform all labor and furnish all material of the different classes required to build complete
CHURCHES, HOTELS, MILLS, PUBLIC
BUILDINGS AND RESIDENCES.
Also for the construction of
RAILROADS, DAMS AND BRIDGES.

We solicit correspondence with those wishing to place the construction of any proposed new work under ONE CONTRACT, which shall include all branches connected with the work. To such parties we will furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO.,

STAINED GLASS & DECORATIVE WORK.
Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.
Sole Agents for
CLAYTON & BELL, GLASS STAINERS, LONDON.
61 Washington Square, South, New York, N. Y.

ROBERT C. FISHER & CO.,

Successors to FISHER & BIRD,
MARBLE AND GRANITE WORKS,
97, 99, 101 and 103 EAST HOUSTON STREET,
Established 1830. NEW YORK.

PAINT cracks.—It often costs more to prepare a house for repainting that has been painted in the first place with cheap ready-mixed paints, than it would to have painted it twice with strictly pure white lead, ground in pure linseed oil,

Strictly Pure White Lead

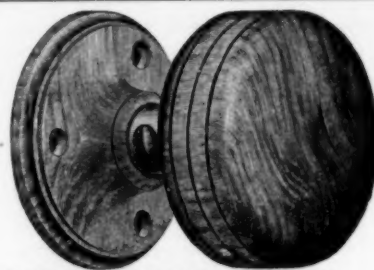
forms a permanent base for repainting and never has to be burned or scraped off on account of scaling or cracking. It is always smooth and clean. To be sure of getting strictly pure white lead, purchase any of the following brands:

- | | |
|-------------------------------------|---------------------------------------|
| "ANCHOR" (Cincinnati). | "JEWETT" (New York). |
| "ARMSTRONG & McKELVY" (Pittsburgh). | "KENTUCKY" (Louisville). |
| "ATLANTIC" (New York). | "JOHN T. LEWIS & BROS. CO." (Phila.). |
| "BEYMER-BAUMAN" (Pittsburgh). | "MORLEY" (Cleveland). |
| "BRADLEY" (New York). | "MISSOURI" (St. Louis). |
| "BROOKLYN" (New York). | "RED SEAL" (St. Louis). |
| "COLLIER" (St. Louis). | "SALEM" (Salem, Mass.). |
| "CORNELL" (Buffalo). | "SHIPMAN" (Chicago). |
| "DAVIS-CHAMBERS" (Pittsburgh). | "SOUTHERN" (St. Louis and Chicago). |
| "ECKSTEIN" (Cincinnati). | "ULSTER" (New York). |
| "FAHNESTOCK" (Pittsburgh). | "UNION" (New York). |

FOR COLORS.—National Lead Co.'s Pure White Lead Tinting Colors, a one-pound can to a 25-pound keg of Lead and mix your own paints. Saves time and annoyance in matching shades, and insures the best paint that it is possible to put on wood.

Send us a postal card and get our book on paints and color-card, free; it will probably save you a good many dollars.

NATIONAL LEAD CO., New York.



WOOD DOOR KNOBS,

DOOR SPRINGS AND CHECKS,
and CHECKING SPRING HINGES.

NEW GOODS. — NEW PRICES.
Send for new Price List.

J. BARDSLEY,

149 and 151 Baxter Street, NEW YORK



Unequaled for all purposes for which Portland Cement is used. Tests and Testimonials of Engineers, and "How to Use Portland Cement," sent free on application.

BUCKEYE PORTLAND CEMENT CO.,
BELLEFONTAINE, OHIO



Best Conductor of all. RITCHIE'S Corrugated Expanding Conductor.

Guaranteed no Infringement.

This pipe has all the advantages of other corrugated conductors in not bursting from freezing, and in addition:

It has no soldered joints.
The enlarged coupling makes the conductor of even size inside throughout.
It is galvanized, after formation, great care being taken to secure a smooth coating of zinc free from dross and impurities.

MANUFACTURED BY
LAMB & RITCHIE,
Boston Spiral Tube Works,
CAMBRIDGEPORT, MASS

**GRAVES
ELEVATORS**

SAFETY, SPEED AND
ECONOMY COMBINED

NEW YORK
92 & 94 LIBERTY ST.
BOSTON
53 STATE ST.
DETROIT
HODGES BUILDING
ATLANTA, GA.
INMAN BUILDING

**GRAVES
ELEVATOR
& CO.**
ROCHESTER, N.Y.

SEND FOR CATALOGUE

**PORCELAIN LINED
REFRIGERATORS**
and Cooling Rooms under the
Wickes System.
Mechanical Refrigeration under
the Westinghouse System.
WICKES REFRIGERATOR COMPANY,
860 Broadway, N. Y.

**BLUE
PRINTS**

And Supplies for Architects,
Engineers, and
Draughtsmen.
FROST & ADAMS,
37 Cornhill,
Boston, Mass.

Send for Our New Catalogue.

THE H. B. SMITH COMPANY,

MANUFACTURERS OF

HEATING APPARATUS,

STEAM AND WATER,

For Public Buildings and Private Residences.

SPECIALTIES:

- "THE UNION" Hot-water Radiators.
- BRECKENRIDGE'S Patent Automatic Air Valves.
- GOLD'S Improved Sectional Boilers.
- MILLS'S Safety Sectional Boilers.
- MERCER'S Patent Improved Sectional Boilers.
- REED'S Improved Cast-Iron Radiators.
- GOLD'S Indirect Pin Radiators.

Office and Warerooms, 137 CENTER ST., NEW YORK.

Foundry, Westfield, Mass. Catalogues sent on Application.



The "UNION" Radiator.

PROCURE THE BEST by specifying

American Boiler Company **HEATING AND
VENTILATING APPARATUS.**

FOR STEAM—"AMERICAN," "FLORIDA," "MODERN," "SOLEIL."
FOR WATER—"ADVANCE," "BOLTON," "PERFECT," "LITTLE
GIANT," "SPENCE," "TROPIC."

18 Styles. 174 Sizes.

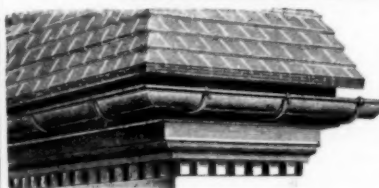
CAPACITY { STEAM, 100 to 4,200 Square Feet.
WATER, 75 to 7,500 " "

Write for Catalogues and Particulars.

American Boiler Company

"SOLEIL" BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
195 Ft. Hill Sq. 94 Center St. 84 Lake St. 127 6th St.

NOTICE TO ARCHITECTS.



This cut shows the additional width, strength and beauty of an eave finished with a hanging, expanding Gutter hung with

"Berger's Favorite Hangers,"

now superseding every other device.

BERGER BROS.,

237 Arch Street, - PHILADELPHIA.

**METAL-
CEILINGS**

WRITE CATALOGUE
FOR PRICES.

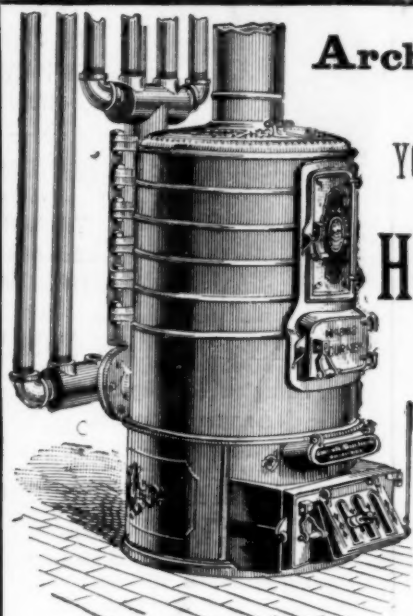
BERGER MFG CO. CANTON, OHIO

ASPHALT ROOFING "ANCHOR BRAND" FLOORS.

SLATE, COPPER, TIN AND GRAVEL ROOFING.

Box at Master Builders Association

THOMAS J. HIND, 101 MILE ST., BOSTON. Prompt attention given to Repairs of all kinds.



GURNEY Hot-Water Heater.
300 SERIES.
For Hard or Soft Coal. Capacities 275 to 1,850 sq. ft.

FOR WARMING RESIDENCES AND MEDIUM-SIZED BUILDINGS BY HOT-WATER CIRCULATION, They are Unequalled.



"DEFIANCE" Hot-Water Heater.
Capacity, 130 and 200 sq. ft.

FOR WARMING SMALL BUILDINGS, OFFICES, ETC., BY HOT-WATER CIRCULATION, and also used in Coach-Houses, Laundries, Bath, etc., for furnishing hot water.

GURNEY STEAM BOILER

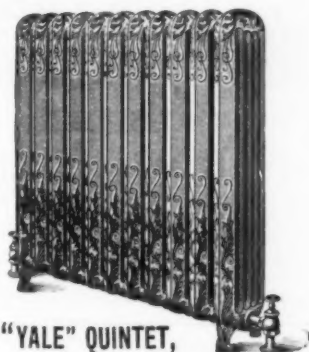
ENTIRELY NEW.

Maintains Steady Water Line.
Will not Foam.
Suited to all Classes of Buildings.



PERSPECTIVE VIEW.

Architects and Builders
WE INVITE
YOUR SPECIAL ATTENTION TO
Our Extensive Lines of
Hot-Water Heaters,
STEAM BOILERS
AND
RADIATORS.



"YALE" QUINTET,
FOR HOT WATER OR STEAM.
Efficient, Artistic and Well Constructed.



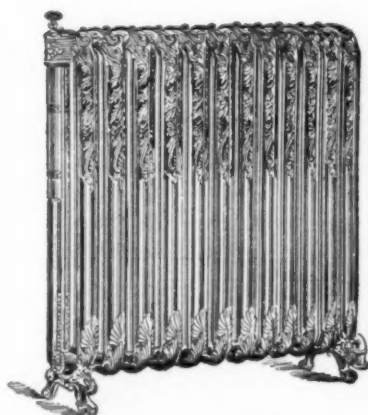
Double Crown Hot-Water Heater.
Made in 3 Sizes, A, B or C. Capacities, 750 to 6,000 sq. ft.

CONSTRUCTED ON MOST APPROVED SCIENTIFIC PRINCIPLES OF CIRCULATION AND ECONOMY.

Especially adapted to large Buildings where great power with economy are desired.



DEFIANCE STEAM BOILER.
Capacities, 125 and 175 sq. ft.
For Warming Small Buildings, Offices, etc., by Steam.

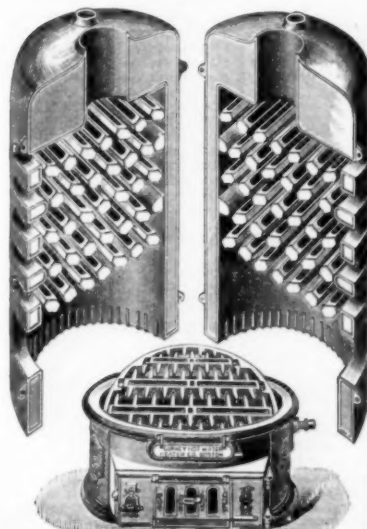


"GURNEY" RADIATOR, FOR HOT WATER.

GURNEY STEAM BOILER

ENTIRELY NEW.

CONTAINS MOST EFFECTIVE HEATING SURFACE.
Simple in Construction and Erecting.
Can be Easily and Thoroughly Cleaned.



SECTIONAL VIEW.

SEND FOR LATEST CATALOGUES.

GURNEY HEATER MFG. CO.

163 Franklin St., cor. Congress,
Boston, Mass.

SELLING AGENCIES:

JOHNSON & CO., 71 John St., New York City and Vicinity.
J. C. F. TRACHSEL, 246 Arch St., Philadelphia and Vicinity.
A. A. GRIFFING IRON CO., 34 Dearborn St., Chicago and Western States.

CLINTON WIRE-CLOTH CO.,

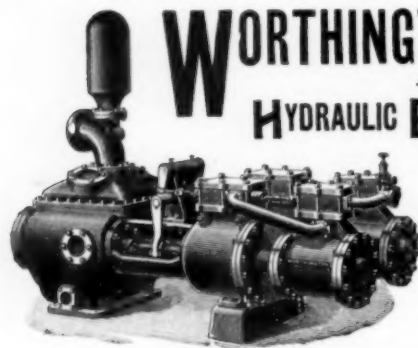
Sole Proprietors and Manufacturers of

WIRE LATH *DOUBLE TWIST WARP
STIFFENED (Iron furred)
CLINTON CORRUGAT'D*

Plain, Japanned or Galvanized.

The Most Perfect and Economic System of FIREPROOF Construction.

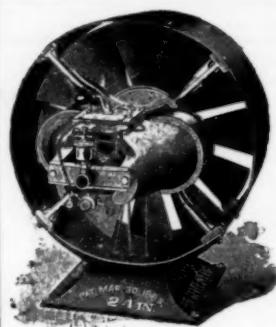
SEND FOR CIRCULAR.

BOSTON, NEW YORK, CHICAGO, FACTORY,
199 Washington St. 76 Beekman St. 137 Lake St. CLINTON, MASS.**WORTHINGTON STEAM PUMPS**
ARE THE STANDARD FOR
HYDRAULIC ELEVATOR AND HOUSE SERVICE.

Send for New Illustrated Catalogue.

Henry R. Worthington,NEW YORK, 86 & 88 Liberty St.
BOSTON, 70 Kilby St.
PHILADELPHIA, 607 Arch St.
CLEVELAND, 24 South Water St.
CHICAGO, 185 to 189 Van Buren St.
ST. LOUIS, Eighth & St. Charles Sts.**A BOON TO ARCHITECTS AND BUILDERS.
THE MORSE PATENT WALL TIE.**Made from 3-16 in. galvanized steel wire; thickness where ends cross 1-4 in.
Secures Hollow Walls, Brick Facings, Terra Cotta, Etc.
Also made from 5-32 and 1-8 wire.**CHEAP, STRONG, RELIABLE.**Adopted by more than 400 Architects and Builders the past three seasons.
Write for samples, circulars, etc.**J. B. PRESCOTT & SON, Sole Mfrs., Webster, Mass.**New York Office,
62 Rensselaer St.

BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
BRICK.—P. M.				
Common: Cargo afloat.				
Pale.....	1 25 @ 2 00			
Jersey.....	3 75 @ 4 25			
Long Island.....	4 00 @ 5 00			
Up River.....	4 25 @ 4 50			
Haverstraw Bay Mt.....	5 75 @ 5 00			
Hollow.....	13 00 @ 13 00			
Fronts:				
Croton, Brown.....	9 00 @ 12 00			
" dark.....	10 00 @ 13 00			
" red.....	10 00 @ 13 00			
Chicago pressed (Anderson).....				
" Moulded.....				
Baltimore.....	37 00 @ 41 00			
Philadelphia.....	22 00 @ 23 00			
Trenton.....	19 00 @ 19 00			
Milwaukee.....				
Moulded:				
Glens Falls Red Pressed.....	37 00 @ 37 00			
" Buff.....	30 00 @ 30 00			
" Moulded Red & Buff.....	45 00 @ 70 00			
Enamelled: Imp.				
Enamelled (edge).....	85 00 @ 100 00			
Enamelled (edge and end).....	90 00 @ 115 00			
CEMENT, LIME, etc.—(P cubic ft.)				
Rosendale Cement.....	85 @ 1 10			
Louisville.....				
Utica, Akron, Buffalo, Milw'kee.....	Not sold.			
Portland, English (Gibbs).....	2 25 @ 2 50			
" (K. B. & S.).....	2 50 @ 3 00			
" Black Cross.....	2 25 @ 2 50			
" (Burnham).....	2 50 @ 2 50			
" (White's).....	2 65 @ 3 00			
" French (Lafarge).....	3 00 @ 3 75			
" German (Alsen).....	2 90 @ 3 25			
" (Fewer).....	2 25 @ 2 40			
" (Vorwöhler).....	2 50 @ 2 90			
" (Lagerdofer).....				
" (Dyckerhoff).....	2 60 @ 2 90			
" (Hanover).....	2 50 @ 3 00			
" Stettin, (Anchor).....	2 35 @ 2 85			
" American (Saylor's).....	2 15 @ 2 25			
Roman.....	2 75 @ 3 00			
Keene's coarse.....	4 50 @ 5 50			
" superfine.....	5 00 @ 5 50			
Lime:				
Lime of Teil.....	3 50 @ 4 00			
Hydraulic Lime.....	1 45 @ 1 45			
Chicago Lime in bulk.....	St. John			
Wisconsin Lime.....	85 @ 85			
Rockland and Rockport, (Com.).....	90 @ 90			
Rockland and Rockport, finish.....	1 00 @ 1 00			
Kelley Island Lime, finish.....	80 @ 80			
State, com. cargo rates (nom.).....	1 05 @ 1 10			
State, finishing.....	1 40 @ 1 50			
Plaster of Paris (calcined).....	1 60 @ 1 60			
" (cast).....	18 @ 21			
Hair (Cattle) bush.....	21 @ 25			
" (Goat).....	1 00 @ 1 25			
Sand, # load.....				
STONE. (P cubic foot, rough.)				
Granite: (Maine)				
Limestone:				
Bedford.....	45 @ 1 25			
Joliet.....	1 00 @ 1 00			
Lemont.....				
Serpentine.....				

**KEEP COOL**
BY USING
**THE SMITH
VENTILATING
FAN.****KEEP WARM**
BY USING
**THE SMITH
HOT BLAST
APPARATUS.**

Both Manufactured by

THE HUYETT & SMITH MFG. COMPANY,Heating and Ventilating Engineers,
DETROIT, MICH.

Write for Catalogue, mentioning this paper.

**McCRAY REFRIGERATOR AND
COLD STORAGE CO.,**Cooling Rooms for public Institutions, Hotels,
Fine Residences, Groceries, and
Meat Markets.**KENDALLVILLE, IND.****CATALOGUE**
FOR 1894 OF
Architectural Books.

SEND FOR CLEARANCE CIRCULAR.

WM. T. COMSTOCK, Pub., 23 Warren St., N. Y.**NEW ENGLAND
FELT ROOFING
WORKS,**

22 MILK ST., BOSTON.

Originators of Felt Roof-
ing in New England.Incorporated
1891
Capital \$80,000
LEVI L. WILLIAMS, Pres.
EPH. C. DAVIS, Treas.Inventors and only Manu-
facturers of the Celebrated
"BEEHIVE BRAND."**BURDITT & WILLIAMS,**
Representatives of Leading Manufacturers of
BUILDERS' HARDWARE.
Refer to the prominent Architects of Boston,
New York and Washington, as well as to many
of the finest Public Buildings and Residences
in all parts of the United States.
Branch Office, 20 Dock Square,
WASHINGTON, D. C. BOSTON, MASS.**Helotype Printing Co.,**

211 Tremont Street, Boston.

ESTABLISHED 1872.

PHOTO-LITHOGRAPH.**PHOTO-COLOR-LITHOGRAPH.****PHOTO-GELATINE.****PHOTO-GRAVURE.****PHOTO-ENGRAVING.**COPIES OF ARCHITECTURAL,
MECHANICAL AND OTHER
DRAWINGS, MAPS, PLANS, ETC.,
PORTRAITS, VIEWS AND ALL
BOOK ILLUSTRATIONS.**Helotype Printing Co.**

CABOT'S

CREOSOTE

SHINGLE

STAINS



Loring & Phipps Arch'ts Boston

Don't specify paint for shingles; it isn't artistic. Don't specify a Stain that will turn black in a few years, because it looks dirty and you have to paint it over to change the color. Specify a stain that will hold its color and grow old gracefully—like Cabot's, which was the first shingle stain ever made, and is now, as always, first in durability, first in economy, and first in favor with those who have used it. *Every gallon guaranteed.*

Summer Cottage
Thousand Islands
Prof. F. H. Macmillan

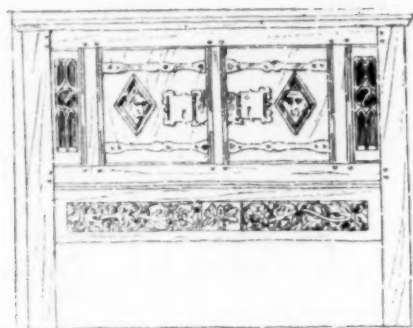
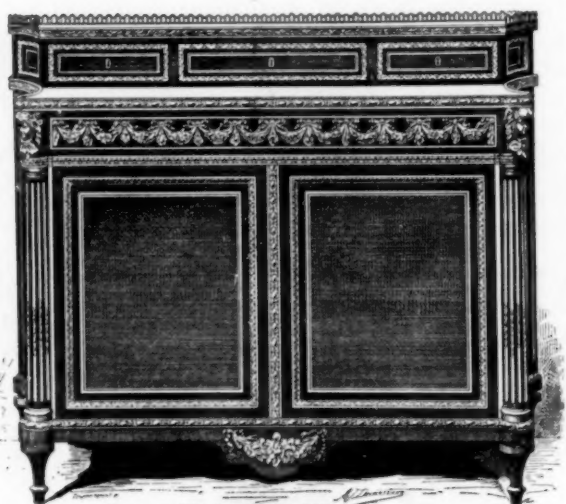
Large or small wood samples, circulars and water-color reproductions of color schemes, sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

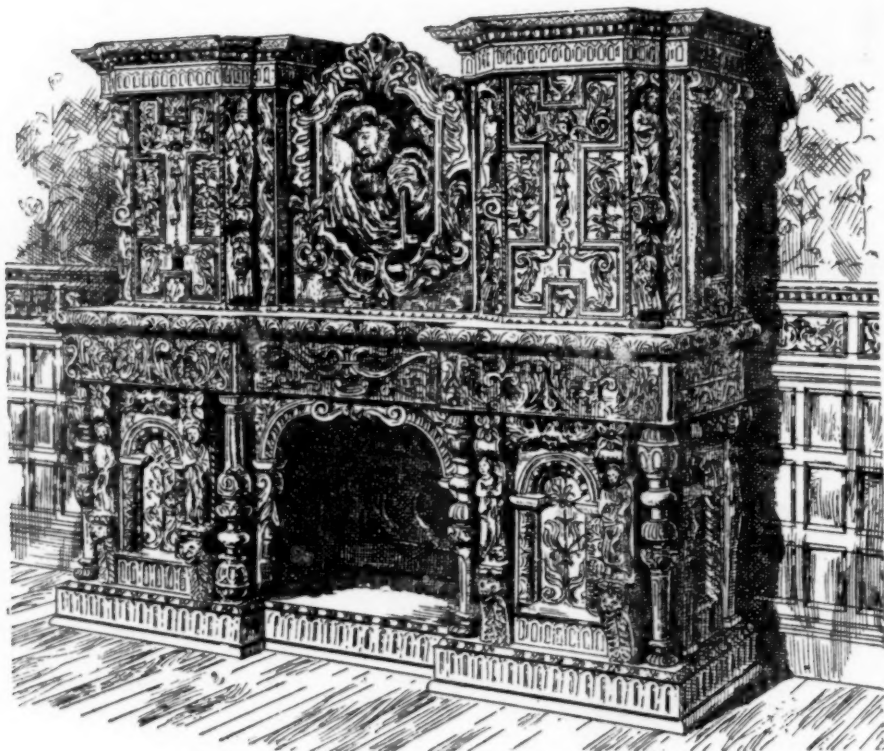
Agents at all Central Points. **70 Kilby St., BOSTON, MASS.**



Renaissance Cupboard.

FRENCH CREDENCE. OAK. SOUTH KENSINGTON MUSEUM.
After a sketch by JEAN CARLO D'ARTIS.

Eighteenth-Century Commode in the Garde Meuble, Paris.



SIDEBOARDS.

OKONITE INSULATED ELECTRIC LIGHT WIRES.

TRADE MARK.
WILLARD L. CANDEE,
H. DURANT CHEEVER,
GEO. T. MANSON, Gen'l Supt.
W. H. HODGINS, Sec'y.

The Okonite Wire is pronounced by Architects to be a **SAFE, DURABLE** and **EASILY ADJUSTED WIRE**, for the **INSIDE WIRING** of **PUBLIC** and **PRIVATE BUILDINGS**.

AWARDED A GOLD MEDAL AT THE PARIS EXPOSITION.

BRANCHES: Boston, Philadelphia, Chicago, Omaha, Cincinnati, Minneapolis, San Francisco, Louisville, St. Louis, Kansas City, South America, London.

THE OKONITE COMPANY, L'T'D,

Send for Catalogue and Prices.

13 Park Row, New York.

**PASSENGER
AND
FREIGHT
ELEVATORS**

Morse, Williams & Co.,
Electric and Hydraulic High Speed
Passenger Elevators.

Steam, Belt and Hand Power Freight Elevators.

1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.

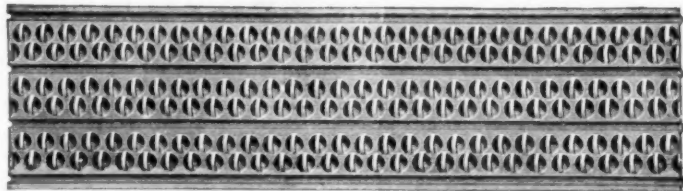
19 Pearl St., Boston. 82 Church St., New Haven.

714 Omaha Building, Chicago. 1116 E. St. N. W., Washington, D. C.

**Decorative
Glass and
Sand Blast
Work.**

THE MATTHEWS DECORATIVE GLASS CO.
MANUFACTURERS OF
ORNAMENTAL GLASS in Sheets or from Special Design
By the **SAND-BLAST** and other Patented processes.
CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,
Gold and Silver Embossed, and Transparent Glass Signs. Marbleized Glass
for Ceilings. Estimates promptly furnished on application.
328-330 E. 26th Street, New York City.

PAUL E. CABARET (Successor to SPADONE & CABARET),
BRONZE AND BRASS WORK OF ALL KINDS
For Banks, Churches, Mausoleums, etc. Doors and Gates a specialty.
Send for Catalogue. Herring Building, Junction of 9th Ave. & 14th Street, New York.

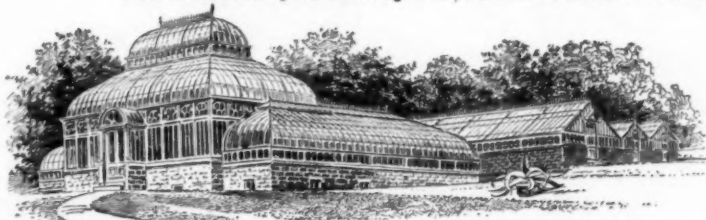
**"Piqua" Steel Lath.**

"Piqua" Lath is made from the best quality of steel, in sheets 27 1/4 x 48 inches, and each sheet covers exactly one square yard of surface. The corrugations shown in cut are 3 3/4 inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.

L. HABERSTROH AND SON:
INTERIOR DECORATORS AND PAINTERS
9 Park St. Cor Beacon
Boston Mass.
Artistic Relief Processes
Tapestry-Leather Mosaic Effects
Established in 1848

HITCHINGS & CO., Established 50 years.
HORTICULTURAL ARCHITECTS AND BUILDERS
and largest Manufacturers of
GREENHOUSE HEATING AND VENTILATING APPARATUS.



Conservatories, Greenhouses, Palm Houses, etc., erected complete with our patent Iron Frame Construction. Plans and Estimates of cost and illustrated catalogues sent on application.

233 MERCER STREET, N. Y.

METAL CEILINGS
Suitable for
Residences, Offices, Schools,
Hospitals & Churches
Can be applied over old Plaster
without removing same
Give Measurements for estimate
N.Y. METAL CEILING CO.
21 ST. AND 13 AV.
NEW YORK, N.Y.



**TUBULAR
CHIME BELLS**
Harrington Patents.

Established in England.
Introduced here.
Lighter in Weight
Sweeter in Tone
Cheaper in Price
Than the ordinary bell
Catalogue with full description.

**U. S. Tubular Bell Co.,
Methuen, Mass.**

MARKS' ARTIFICIAL LIMBS.
WITH RUBBER HANDS AND FEET.
The most comfortable, durable and natural.



Although a man may lose both of his legs he is not necessarily helpless. By having artificial legs applied, with rubber feet attached, he can be restored to his usefulness.

The engraving is from an instantaneous photograph of a man ascending a ladder; he has two artificial legs substituting his natural ones, which were crushed by a railroad accident and amputated. With his rubber feet he can ascend or descend a ladder, balance himself on the rungs, and have his hands at liberty. He can work at a bench and earn a good days wages. He can walk and mingle with persons without betraying his loss; in fact, he is restored to his former self for all practical purposes.

With the old method of complicated ankle-joints these results could not be so thoroughly attained.

Fifteen thousand in use, scattered in all parts of the world. Many of these have been supplied without presenting themselves to the maker, simply by sending measurements on a formula which any one can easily fill out.

RECEIVED THE HIGHEST AWARD AT
WORLD'S COLUMBIAN EXPOSITION.
Indorsed and purchased by the U. S. Government.
A treatise of 430 pages and formula for measuring SENT FREE.

A. A. MARKS,
701 Broadway, NEW YORK CITY.
[Established 41 Years.]



**NATIONAL
Fine Art Foundry,**
218 East 25th Street, New York.

Artists' Models cast in Standard Bronze.

Architects' Designs Executed.
Artistic and Enduring Monuments
in Granite and Bronze.

No Catalogues.

MAURICE J. POWER,

SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.

Slate, Copper, Tin and Gravel Roofing.

Nos. 20 and 22 EAST STREET, BOSTON.

Order Box at Master Builders Association,
164 Devonshire Street.Special attention given to Repairs
of all kinds.Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs,
acknowledged to be the strongest method in use, and has been applied to many of the best
constructed and largest buildings in this country.

Contracts made for Work wherever desired.

ASPHALT ROOFING AND PAVING
MATERIALS.

WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.

Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO. 81 & 83 Fulton Street, NEW YORK, U. S. A.

Send
for
Samples.

If you SPECIFY

SAMSON SPOT CORD

You can tell at a glance that no other cord is substituted. It is
warranted to be of pure Cotton, smooth finish and perfect braid.

Samson Cordage Works, Boston, Mass.



JACKSON VENTILATING GRATES

have a heat-saving chamber at the back, making
them the most powerful of fire-place heaters.

Send for Catalogue B.

EDWIN A. JACKSON & BRO., 50 Beekman Street, New York.

STAMPED STEEL
CEILINGSMANY
DESIGNS
H. S. NORTHROP
Manufacturer,
30 ROSE ST.
NEW YORK

YALE LOCKS



Steel Plastering Lath.

Superior to wood or any other lathing material. Strength, durability and
economy secured at once. The fire risk reduced to a minimum. Made of

Expanded Metal

No contraction or expansion, consequently no cracks or falling plaster.
Easily applied without stretching or furring, making perfect
key and solid work. Write for illustrated Catalogue No. 29, con-
taining valuable facts about the various uses of expanded metal.CENTRAL EXPANDED METAL CO
531 WOOD STREET, PITTSBURG, PA.

BLACKCROSS PORTLAND CEMENT

IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,

IMPORTERS ROMAN, KEENE'S, VICAT CEMENTS, 23 Liberty Street, NEW YORK.
ENGLISH GLAZED BRICKS.

The only Rubber Insulation Awarded Medal at World's Fair, Chicago, U. S. A., 1893.

High Grade Insulated Wires for Interior Use
Electric Light Wires and Feeders.

Kerite Tape.

WRITE FOR CATALOGUE.

Kerite Elastic Tape.

W. R. BRIXEY, Manufacturer, 203 Broadway, NEW YORK.

ASPHALT FLOORS,
ROOFS,
SIDEWALKS AND CARRIAGE-WAYSOf Public Buildings, Hospitals,
Warehouses, Stables, Cellars, etc.

Laid with VAL de TRAVERS ROCK ASPHALT,

DURABLE, FIREPROOF AND IMPERVIOUS.

For estimates and list of works executed, apply to

THE NEUCHÂTEL ASPHALT CO., Limited,
265 BROADWAY. NEW YORK.Brown's Patent Seamless
DRAWN COPPER HOUSE BOILERS.

Cannot collapse.

Will not leak.

Ordinary boiler tested to 200 lbs.

Extra heavy tested to 300 lbs.

Made of two seamless drawn cop-
per shells.Handsome, best and strongest
in the market.Send for circular giving instruc-
tions for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES,
Waterbury, Conn.Western Depot: 71 West Washington
St., Chicago. Branch Offices: 104
John St., New York; Room 320 Phila-
delphia Bank Building, Philadelphia;
99 Milk St., Boston; Room 208, Neave
Building, Cincinnati.Proprietors of the Brown & Bros. Tub-
ing and Boiler Works, and the Brown &
Bros. Brass and Copper Rolling Mills.

Makers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

TO THOSE INTERESTED IN, OR
USING VALVES:WE have recently made improve-
ments in the manufacture of
JENKINS BROS.' VALVES, having
increased the number of bolts, thick-
ness of flanges, etc. We shall man-
ufacture ONE GRADE OF VALVE
ONLY, suitable for high or low-pres-
sure steam. The Jenkins' Dies used
in these valves are suitable for high
or low pressure. We guarantee all
valves stamped with Trade Mark.

JENKINS BROS.,

New York, Chicago, Philadelphia, Boston.

Chicago Interior Decorating Co.
Bank, Office & Club
Equipments.Mantels, Tiles, Ceramic Mosaics
FINE SPECIAL FURNITURE.

Highest grade of first class goods.

Drawings and Estimates furnished upon application.

149 & 150 Michigan Ave., Chicago, Ill.

Formerly occupied by the Henry Dibblee Co.

BLAKE BELL CO.

Successors to Wm. Blake & Co.

Bell Founders and Brass Finishers.

Castings in any metal
except iron.Monumental Tablets, Artistic
Brass Work.

Allen and Brighton Sts., BOSTON.

J.W. TAYLOR'S PHOTOGRAPH SERIES.

151 MONROE ST. CHICAGO. OF AMERICAN ARCHITECTURE.

Removed to Owings Building.

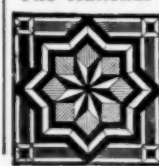
Send two 5 cent stamps for Catalogue.

PARQUET FLOORS.

The National Wood Manufacturing Co.,

129 5th Avenue, New York.

WAINSCOTINGS and CEILINGS.

Inlaid Wood Floors 5-16 and
7-8 inch thick.Solid work, Tongued and Grooved
in each piece.Designs & Estimates on applica-
tion. Established 1867.

POINTS ON VARNISH.

NO. 263.—THE ARCHITECT GETS
HIS MAD UP,

sometimes—and who does not sympathize with him?—when he explains the varnish problem to an owner, and settles upon first-class goods, and then finds that the owner goes to some second-class painter and consults with him upon the architect's wisdom, and is influenced by him to use a cheaper varnish.

Still—we all have these annoyances. We shall not overcome them by more laxity of method, but by stricter method.

Let the architect be thoroughly furnished in his own knowledge—make a dead sure thing of it that no painter understands varnish better than he does.

Let him impress the owner with his knowledge and his authority in this business.

Let him refuse absolutely to give the painter any choice or voice in the matter.

Let him specify varnish, exactly, as he specifies wood and stone.

Let him give the finishing contract, not to the carpenter to be sublet, but to a reputable painter. That will drive mischief-making painters to the wall.

MURPHY VARNISH CO.
FRANKLIN MURPHY, President.

Head Office: Newark, N. J.
Other Offices: Boston, Cleveland, St. Louis, Chicago.
Factories: Newark and Chicago.

TO ARCHITECTS:

If you desire to recommend a firm as one thoroughly capable of supplying *complete* furnishings for a hotel, club-house or private residence, you can mention us *with confidence*.

We supply CARPETS, RUGS, UPHOLSTERY FABRICS, FURNITURE, ETC., ETC.

Our goods are right; our prices are right.

We make a specialty of *private and exclusive patterns* which cannot be duplicated elsewhere.

John H. Pray, Sons & Co.,
658 Washington Street,
Opposite Boylston Street,
BOSTON.

F. W. DEVOE & CO.

(Established 1882.)

Fulton St., cor. William, New York.
No. 176 Randolph St., Chicago.

Pure Ready-mixed Paints.

We desire to call attention of consumers to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fireproof." We use no secret or patent method in manufacturing them by which benzine and water are made to serve the purpose of pure linseed oil.

Sample cards, containing fifty desirable shades sent on application.

FINE VARNISHES.

Hard Oil-Finish & Wood-Stains.

Illustrated Catalogue of Engineers' and Architects' Supplies, 250 pages, 700 Illustrations, on request.

White-Lead Colors in Oil and Japan.

THE DECORATIVE GLASS

in Abbey's Theatre, N. Y., and Keith's Opera House, Boston, are examples of Renaissance and Rococo designs, the movement, carried out entirely in our *hard metal* settings.

METALLIC SETTING CO.,
137 Weybosset St., PROVIDENCE, 5 Park Sq., BOSTON.

H. W. JOHNS' SHINGLE STAINS

Prepared ready for use from the Purest Pigments and best Wood Preservative known. We will send upon request a full set of samples on wood, showing Silver Grays, Moss Greens and many handsome weather stained effects. These are permanent, durable stains.

H. W. JOHNS M'FG CO., 87 MAIDEN LANE, NEW YORK.
NEW YORK, JERSEY CITY, CHICAGO, PHILADELPHIA, BOSTON.

JAMES A. MILLER & BRO.		129 & 131 S. CLINTON ST CHICAGO
SLATE TIN AND IRON ROOFERS	CORRUGATED IRON FOR ROOFING AND SIDING.	GALVANIZED IRON CORNICES
	THE HAYES SKYLIGHT.	CORRUGATED CONDUCTOR PIPE
	WARRANTED NOT TO BURST WHEN FULL OF ICE.	

Awarded the Grand Prize at the late Paris Exposition.

BOSTON, MASS. 8 OLIVER ST. PHILADELPHIA, PA. 32 N. 5TH ST. CHICAGO, ILL. 910 MASONIC TEMPLE CINCINNATI, O. 405 N. E. B. L. PITTSBURGH, PA. 408 LEWIS BLDG.

BABCOCK & WILCOX BOILERS

THE BABCOCK & WILCOX CO.

29 CORTLANDT ST.
NEW YORK.

SEND FOR BOOK ON STEAM.

NEW ORLEANS, LA. 57 CARondelet ST. SAN FRANCISCO, CAL. SAN FRANCISCO TOOL CO. HAWANA, CUBA 116 CALLE DE LA HABANA

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING, DREXEL BUILDING, MONADOCK BUILDING, DASHWOOD HOUSE,
NEW YORK. PHILADELPHIA. CHICAGO. LONDON.



Announce to all who contemplate building or renovating
Hotels, Office Buildings or Residences, that they have
formed a department in their extensive works for

**Architectural Woodwork,
Fine Cabinet Work, and
Interior Finishing.**

Plans, designs, specifications and further particulars will be submitted on ap-
plication. Address **WORKS AT WILMINGTON, DEL.**

THE "GORTON" BOILER, For STEAM and HOT-WATER HEATING.

ECONOMICAL IN FUEL, AUTOMATIC, SELF-FEEDING.

A STEEL SECTIONAL TUBULAR BOILER.

Correspondence solicited from Architects and those interested in
Heating Large or Small Buildings.

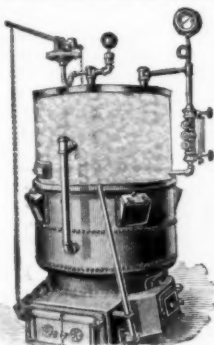
Our New Book on MODERN HOUSE HEATING furnished on application.

GORTON & LIDGERWOOD CO.,

96 LIBERTY STREET, NEW YORK.

197 to 203 Congress St., BOSTON.

34 and 36 W. Monroe St., CHICAGO



BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

stone apart.; own., Mrs. A. R. Parsons; con., James
Miles & Son; arch., Barker & Nourse.
Kilby St., four-st'y frame apart.; own., Louis E.
Bissonnette; day-work.

CHURCHES.

Bridgeport, Conn. — Howard Ave., brick and stone
church; \$15,000; own., Sacred Heart Mission Society;
Rev. J. C. O'Brien has charge.

Brownsville, Pa. — Plans have been prepared and
accepted for a Presbyterian church to cost about
\$12,000; arch., J. C. Fulton, Uniontown, Pa.

Garrett Park, Md. — New Episcopal Church; \$10,-
000; arch., Donn & Peter, Washington, D. C.

Holley, N. V. — St. Paul's Protestant Episcopal
Church Society have begun work on their stone
church, 41 1/2 x 7 1/2, open timber roof; arch., Addison
Forbes, Rochester, N. Y.

Merchautville, N. J. — One-st'y Avondale (or other)
stone Methodist Episcopal Church, slate roof; arch.,
Frank R. Watson, 518 Walnut St., Philadelphia.

New Haven, Conn. — Brick, stone and terra-cotta
church for the First Presbyterian Society; \$50,000;
arch., F. R. Comstock, Hartford.

Pemberton, N. J. — One-st'y brick Methodist Epis-
copal Church, slate roof; arch., Frank R. Watson,
518 Walnut St.

Philadelphia, Pa. — Dauphin St., n w cor. 20th St.,
one-st'y frame church; con., Isaac E. Blum, 1543
North 19th St.

Parish St., cor. 42d St., two-st'y stone and brick
St. Peter's Lutheran Church, slate roof, tower, inter-
ior in open truss-work, hard wood; arch., E. H. C.
Hartmann, 4119 Ogden St.

Pottstown, Pa. — Stone Baptist church, amphithe-
atre in form, seating capacity 600 or 700; arch., T.
Frank Miller, 1221 Arch St., Philadelphia.

Summit, N. J. — Plans have been prepared by H. M.
Congdon, architect, 18 Broadway, New York City,
for the erection of the Calvary Episcopal Church.

Wayne, Pa. — Local stone and rough cast St. Cath-
arine's Church and rectory, slate roof, tower; con.,
W. R. Dougherty, 1604 Sansom St.; arch., H. A.
Roby, York, Pa.

CLUB-HOUSES.

Princeton, N. J. — Two-st'y and attic club-house,
70' x 70'; arch., Dehli & Chamberlin, 784 Broadway,
New York City.

EDUCATIONAL.

Asbury Park, N. J. — The contract for the building
of a new school, has been awarded to John Glanfield
& Son, for \$45,842; D. W. Sexton has contract for
remodelling wings of present building.

Baltimore, Md. — New Western Female High
School; \$105,149; con., Henry S. Rippel, 1929 West
Baltimore St.

Boston, Mass. — Bowdoin Ave., four-st'y school, hip
roof, 86' x 173'; own., City of Boston; bld., J.
Fagan.

Bristol, Conn. — Plans are being made for a school
to cost \$20,000; arch., Curtis & Johnson, Hartford.

Dedham, Mass. — Two-st'y frame school, pitch
roof, arranged for 9 rooms and hall, 63' 6" x 138';
arch., Hartwell & Richardson, Boston.

Maricetta, Ga. — New public school building; \$11,-
184; con., Henderson & Austin.

McKeesport, Pa. — Work has been commenced on
the new Seventh Ward School, which will cost
about \$40,000.

Meriden, Conn. — Brick and brownstone school, 8
rooms, 67' x 71'; for Centre District; arch., D.
Bloomfield.

Philadelphia, Pa. — Eighteenth St, e s, n Morris St.,
four-st'y stone and brick parochial school, 61' x 130 1/2,
about \$50,000; own., St. Thomas Aquinas Roman
Catholic parish; con., Edward Delaney, Christian
and 23d Sts.

Worcester, Mass. — Almont Ave., two-st'y brick and
stone school; own., City of Worcester; con., Eli
Belisle; arch., Geo. H. Clemence.

BUILDING INTELLIGENCE.

FACTORIES.

Philadelphia, Pa. — Rigger St., n w cor. Royal St.,
three-st'y brick mill with two-st'y annex; con., John
J. Raney, 703 Hale Building.

HOSPITALS.

Philadelphia, Pa. — Pine St., n s, e 36th St., three-
st'y stone and brick hospital ward, 50' x 46' for the
University of Pa.; con., Lewis Havens, 518 Girard
Building.

HOTELS.

North Wales, Pa. — Three-st'y brick hotel with
hard wood finish; about \$6,000; own., Station Agent
Gangewer; con., J. B. Wolf, Telford, Pa.

Philadelphia, Pa. — Huntingdon St., s w cor. Broad
St., two-st'y brick hotel and saloon; con., McGold-
rick & Warren, 2560 Tyson St.

HOUSES.

Baltimore, Md. — Three three-st'y brick dwells.,
2407-2411 St. Paul St.; own., Robt. H. Muller, 704
North Arlington Ave.

Four three-st'y brick dwells., n s 20th St., bet.
Calvert and St. Paul Sts.; own., Samuel Bealmear,
1713 St. Paul St.

Five two-st'y brick dwells., e s Hanover St., n
Ostend St.; own., Jas. W. Amos, 1822 Edmondson
Ave.

Two two-st'y and 1 three-st'y brick dwells., e s
Gay St., bet. Townsend St. and North Ave.; own.,
F. Decker & Sons, 1209 East Biddle St.

Twenty-four two-st'y brick dwells., n s Hollins
St., beg., n w cor. Pulaski St.; own., Jos. T. Bell,
1426 Hollins St.

Five two-st'y brick buildings, e s Washington St.,
n Preston St.; own., Faulhaber & Kaiser, 920 Hop-
kins Ave.

Bethlehem, Pa. — Plans have been prepared by arch-
itect, A. W. Leh, of South Bethlehem, Pa., for a
dwelling for Josiah Bachman.

A dwelling will be built for George W. Reed, cashier
of the Lehigh Valley National Bank; arch., A. W.
Leh, South Bethlehem, Pa.

Blue Ball, Pa. — Samuel Musselman is building a
large dwell.

Boston, Mass. — St. Alphonsus St., near Tremont
St., Ward 22, three-st'y frame dwell, flat roof, 24' x
48'; own., John Helein, 140 Ward St.; bld., Wm.
Sittig.

Circuit St., next Washington St., Ward 21, three-
st'y frame dwell, flat roof, 30' x 51'; own., G. W.
Chesley, 115 Beverly St.; bld., L. S. Boulter.

Cory St., near Centre St., Ward 25, 2 frame
dwell, hip roofs, 10' x 45'; own., Miss S. H. Whitte-
more; bld., Brown Bros.

Hamlet St., No. 5, Ward 20, three-st'y frame
dwell, flat roof, 20' x 57'; own. and bld., G. A. Clif-
ford, 12 Folson St., Roxbury.

Boston St., No. 179, Ward 15, frame dwell, 26' x
44'; own., W. C. Clapp, 12 Post-office Sq.; bld., W.
H. Haddock.

Chestnut Ave., near Spring Park Ave., Ward 23,
frame dwell, 37' x 41'; own., Harriet A. Phipps;
bld., J. P. Campbell.

Comper St., near Moore St., Ward 1, 2 frame
dwell, 22' x 42'; own., Annie Barker; bld., G. H.
Barker.

Howland St., near Humboldt Ave., Ward 21, 2
frame dwells., 37' x 40', 28' x 52'; own. and bld., S.
M. Shepleigh.

Marshall St., near Norfolk Ave., Ward 20, three-
st'y frame dwell, flat roof, 25' x 38' and 2 frame
dwell, 20' x 38'; own. and bld., H. D. Gould.

East Fifth St., No. 350, Ward 14, three-st'y frame
dwell, flat roof, 20' 6" x 49'; own., S. Sullivan; bld.,
R. S. Rogers.

Chelsea Ave., near Saratoga St., Ward 23, frame
dwell, 32' x 38'; own., F. W. Dahl; bld., J. Luip-
pold.

Dorchester Ave., Nos. 1391-1393, Ward 24, 2 three-
st'y frame dwells., flat roofs, each 20' x 59'; own.,
O'Neil & Sons.

Wescott St., of West Park, Ward 24, three-st'y
frame dwell, hip roof, 25' x 51'; own., C. W. Sher-
man; arch., A. E. Fisher.

Armadine St., near Milton Ave., Ward 24, three-

INSTRUCTION BY MAIL

In Architectural Drawing,
Plumbing, Heating and Ventilation,
Bridge Engineering,
Railroad Engineering,
Surveying and Mapping,
Electrical Engineering,
Mechanics,
Mechanical Drawing,
Mining,
English Branches, and

ARCHITECTURE.

Diplomas awarded. To begin, students need only
know how to read and write. Send for FREE Circular
of Information stating the subject you think of study-
ing to

The Correspondence School of Mechanics
and Industrial Sciences,
SCRANTON, PA.

4000 STUDENTS.

FOR INFORMATION ABOUT

U. S. MAIL CHUTES

WHICH ARE

A necessity in Office Buildings and Hotels,
write to the sole makers,
THE CUTLER MFG. CO., ROCHESTER, N. Y.
PATENTED. AUTHORIZED.



The Great LIGHT

Prink's Patent Reflectors
for Gas, Oil, or Electric give
the most powerful, softest,
cheapest, and best light known
for Churches, Stores, Banks, The-
atres, Depots, etc. New and el-
egant designs. Send size of room.
Get circular & estimate. A liberal
discount to churches & the trade.
Don't be deceived by cheap imitations.
I. P. FRINK, 501 Pearl St., N. Y.

BUILDING INTELLIGENCE.

(Houses Continued.)

st'y frame dwell., pitch roof, 25' x 50'; own., M. T.
Berry; bld., B. Rose.

Chelsea Ave., near Saratoga St., Ward 1, three-st'y
frame dwell., pitch roof, 22' x 36'; own., Emma J.
Knowles; bld., O. S. Knowles.

Seaver St., near Washington St., Ward 23, frame
dwell., 32' x 38'; own., F. W. Dahl; bld., J. Luip-
pold.

Main St., No. 228, Charlestown, three-st'y frame
dwell., flat roof, 14' 3" x 47' 6"; own., H. Lyons;
bld., M. Welsh.

Brookline, Mass. — Auburn St., frame dwell; 88,-
000; own., J. Ryan.

Boylston St. and Norfolk Road, frame dwell.;
\$12,000; own., R. Cordingly.

Addington Road, frame dwell.; \$12,000; own.,
Chas. P. Ware.

Naples Road, three-st'y brick block of 5 houses;
\$80,000; own., D. H. McKay, 28 School St., Boston.

Naples Road, frame dwell.; \$6,000; own., C. L.
McKay.

Colbourne Crescent, 3 frame dwell.; \$24,000; own.,
G. W. Spencer.

Green St., three-st'y frame dwell.; \$15,000; own.,
Arthur H. Pray, 376 Washington St., Boston.

Wellington Terrace, frame dwell., \$6,000; own.,
Lepine Hall Rice, 15 Court Sq., Boston.

Babcock St., frame dwell.; \$5,000; own., Peter
Graftman, 34 Ames Building, Boston.

Brooklyn, N. Y. — Jefferson Ave., s s, 405 1/2' e Lewis
Ave., two-and-one-half-st'y and basement brick
dwell., tin roof, 19' 8" x 45'; \$5,500; own., Mitchell
& Kerr, 793 Putnam Ave.; arch., P. J. Leasing, 412
Evergreen Ave.

King's Highway, n s, 100' w Gravesend Ave., two-
st'y and attic frame dwell., shingle roof, 20' x 24' x
27'; about \$5,000; own., Frank McCabe, Gravesend,
L. I.; arch., S. L. Butts, Gravesend, L. I.

Thirty-sixth St., s s, 195' e 4th Ave., 3 two-st'y
frame dwells., tin roofs, 10' 4" x 44'; \$2,000 each,
own. arch. and bld., H. C. Bull, Blythebourne, L. I.

Fiftieth St., w s, 200' s Avenue C, two-st'y and
attic frame dwell., shingle roof, 23' x 30'; \$3,500;
own., F. W. Holmes 21st St., near Caton Ave.; bld.,
G. J. Cragin, 95 Butler St.

Jefferson Ave., 375' e Stuyvesant Ave., 5 two-st'y
and basement brick dwells., 20' x 44', tin roofs;
\$4,500 each; own., G. H. Stevens, 270 Lewis Ave.;
arch., J. S. Stevens, 537 Monroe St.; bld., H. Pit-
man, Herkimer St.

Berry St., w s, 50' n North 9th St., three-st'y frame
dwell., 25' x 62', tin roof; \$5,000; own., M. L. Stan-
ton, 80 Berry St.; arch., H. Volweiller, 483 Hart St.

Bay Twenty-second St., w s, 250' s 86th St., two-
st'y frame dwell., 31' 10" x 45' 10", shingle roof;
\$4,000; own., H. R. La Forge, Jr., New York City;
arch., Cooperative Building Association, New York
City.

St. Nicholas Ave., w s, 64' n Harmon St., 2 three-
st'y frame dwells., 18' x 50'; tin roofs; \$3,500 each;
own., and bld., Theo. H. Werner, 196 St. Nicholas
Ave.; arch., W. B. Willis, 504 Hart St.

Second Ave., s w cor. 85th St., two-st'y and attic
frame dwell., 30' x 52', shingle roof; cost, \$7,000;
own., R. M. Fair, Chicago, for F. N. Dinkedry, 2d
Ave. and 85th St.; arch., John J. Peters, 186 Remsen
St.

Forty-ninth St., s s, 300' w 14th Ave., two-and-one-
half-st'y frame dwell., 32' x 42', shingle roof; \$3,600;
own., R. R. Doremus, 58th St. and 17th Ave.; arch.,
Paul F. Higgs, 835 Broadway, New York City.

Iron-Work.

THE PHOENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,

BEAMS, CHANNELS, ANGLES, ZERS, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.Round, Square and Flat Bars
of all sizes.

SPECIALTIES:

PHOENIX COLUMNS AND UPSET EYE-BARS
Of all sizes, in Iron or Steel.ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.

AGENTS:

New York: EDWARD CORNING & Co., 29 Broadway.
Chicago: A. C. STITES, 931 Rookery Building.
Boston: EDWARD CORNING & Co., 70 Kilby Street.

PASSAIC ROLLING MILL CO.,

PATERSON, N. J.

STEEL BEAMS

4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

NEW YORK OFFICE, - - 45 BROADWAY.

BELMONT IRON WORKS, Limited.

Successors to

MANLY & COOPER MANUF'G CO.

Ornamental

AND

Architectural

IRON.

Twenty-Second Street and Washington Ave
PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Houses Continued.)

Palmetto St., n s, 25' Irving Ave., 2 three-st'y
frame dwells, 25' x 60', gravel roofs; \$4,800 each; own.,
F. H. Bradley, 71 North Oxford St.; arch., A. Weymar.Palmetto St., n e cor. Irving Ave., three-st'y
frame dwell, 25' x 60', gravel roof; \$5,600; own., F.
H. Bradley, 71 North Oxford St.; arch., A. Weymar.Cambridge, Mass. — Francis St., frame dwell;
\$10,500; own., John Graham Brooks; bld., John
Nesbitt; arch., C. H. McClure.Fayerweather St., frame dwell; \$9,700; own.,
Mrs. N. J. Morrison; bld., W. Fillmore & Co.Channing St., frame dwell; \$12,000; own., R. Y.
Cowan; bld., W. Fillmore & Co.; arch., J. C. Fowler,
Boston.Clinton Township, N. J. — Three-st'y frame dwell,
slate roof; own., N. W. Lawrence; arch., Charles P.
Baldwin, Prudential Building, Newark, N. J.
Three-st'y frame dwell, slate roof, 35' x 60'; own.,
Mrs. E. W. Cook; arch., Charles P. Baldwin, New-
ark, N. J.Fort Washington, Pa. — Two-st'y stone dwell, and
stable for George Wallace.Germantown, Pa. — Otto St., n w s, s w Godfrey
Ave., two-st'y brick and stone dwell; own., Thomas
McGrath, Locust Ave., near Chew St.
Adams St., s e cor. Johnson St., two-st'y stone
dwell; con., Howard Rue, 5259 Adams St.Hartford, Conn. — Garden St., two-st'y brick and
frame dwell, 34' x 62'; own., H. P. Hitchcock.New Britain Ave., No. 147, two-st'y frame dwell,
32' x 49'; own., Burnet Johnson.Jersey City Heights, N. J. — Two-st'y and base-
ment brownstone and frame dwell, 43' x 59'; con.,
R. B. Ferguson; arch., Dehl & Chamberlain, 784
Broadway, New York City, N. Y.Lansdale, Pa. — Main St., double house for Isaac
Van Fossen.New Haven, Conn. — Brick and frame dwell;
\$25,000; for G. H. Sanders; arch., McKim, Mead &
White, New York.Newark, N. J. — Mt. Prospect Ave., frame dwell,
slate roof, 25' x 40'; own., Mrs. C. H. Earle; arch.,
Charles P. Baldwin, Prudential Building.Stratford Pl., frame dwell, 35' x 65'; own., Mrs.
Ida Gilbert Ward; arch., Charles P. Baldwin, Pruden-
tial Building.Broad St., No. 191, three-st'y brick and terra-cotta
dwell, tin roof, 25' x 65'; own., Lyman De Hart,
arch., Charles P. Baldwin, Prudential Building.New York, N. Y. — One Hundred and Sixty-first St.,
n w cor. Washington Ave., three-st'y brick and stone
dwell, 20' x 54', 34' high, flat tin roof, \$10,000; own.,
E. D. Bertine, 650 East 136th St.; arch., O. Bal-
chum, 660 East 135th St.South St., No. 241, four-st'y brick dwell, 19' x 49',
41' high, flat tin roof; \$7,900; own., Mrs. F. C. V.
Bishop, 13 Madison Ave.; arch., S. D. Kelley, 9
Fletcher St.Prospect Ave., w s, 200' North 156th St., three-st'y
stone and frame dwell, 19' x 37', 35' high, flat tin
roof; \$5,500; own., Louise Heinrich, 1054 Stebbins
Ave.; arch., Edward Wenz, 1491 Third Ave.Melrose Ave., n e cor. 150th St., three-st'y brick
and frame dwell, 20' x 53', 35' high, flat tin roof;
\$5,000; own., Jacob Richl, 611 Eagle Ave.; arch., A.
F. A. Schmitt, 604 Courtlandt Ave.

JACKSON ARCHITECTURAL IRON WORKS,

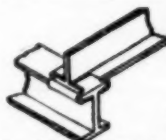
ESTABLISHED 1840.

IRON

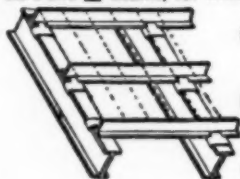
Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams,
Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings
and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze.
Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts.

Office, 315 East 28th St., New York.



H. A. Streeter's Patent Clip

ARCHITECTS, OWNERS, CONTRACTORS, and all
others interested in Iron or Steel construction will please
note that I have PATENTED A STEEL CLIP for connect-
ing Angle or Tee bars to I Beams, etc., which reduces the expense one-half,
and does away with the old method of Drilling and Bolting, which is a great sav-
ing of Time, besides allowing an easy method of adjusting Tee bars to any de-
sired width of Tile. (This method is now adopted by our principal contractors).
Clips furnished ready to apply by sending the Sections and weight of Tee
Bars and I Beams, for which connections are wanted.

FOR PRICES AND FURTHER INFORMATION

APPLY TO STREETER

Globe Iron Works,

35-41 E. INDIANA STREET,
CHICAGO, - - - ILL.ORNAMENTAL
IRON
WORKPRISMATIC
LIGHT
WORKDAUCHY IRON WORKS
84-92 ILLINOIS STREET
* CHICAGO *

BUILDING INTELLIGENCE.

(Houses Continued.)

Decatur Ave., s s, 107' n Cole St., three-st'y brick
and frame dwell, 19' x 41', 35' high; peak shingle
and tin roof; \$3,500; own., Enoch Vreeland, 2688
Madison Ave.; arch., J. J. Vreeland, 709 Tremont
Ave.Prospect Ave., w s, 50' n 156th St., three-st'y stone
and frame dwell, 22' x 50', 35' high, flat tin roof;
\$4,000; own., John Eekes, 528 Courtlandt Ave.;
arch., A. F. A. Schmitt, 604 Courtlandt Ave.Prospect Ave., s s, 150' s 156th St., three-st'y brick
and stone dwell, 22' x 55', 30' high, flat tin roof;
\$3,900; own., Siegmund Pels, 446 East 84th St.;
arch., Gustave Schwartz, 554 East 158th St.Eighty-ninth St., n s, 50' w West Central Park, 4
four-st'y brick dwells, 18' x 19' x 58', 57' high, flat tin
roofs; \$88,000; own., Elizabeth J. Walewood, River-
dale Lane; arch., Neville & Bagge, 217 West 125th
St.Madison Ave., 75' n 71st St., four-st'y brick dwell,
27' x 36', 60' high, flat tin roof; \$60,000; own., Daw-
son & Archer, 24 East 42d St.; arch., Thom & Wil-
son, 1267 Broadway.First Ave., w s, 19' s 166th St., 7 three-st'y stone
and frame dwells, 20' x 51', 35' high, flat tin roofs;
\$28,000; own., Paul G. Decker, 875 Cauldwell Ave.;
arch., John W. Decker, 841 Forrest Ave.Somerville, Mass. — Lowell St., near Highland Ave.,
2 dwells; own. and bld., W. L. Gilden.

Tallot Ave., dwell; bld., E. N. Hutchins.

Preston St., near School St., dwell; own., Flora
J. Pitcher; bld., G. B. Pitcher.Albion St., dwell; own., Jane A. McKenzie; bld.,
Charles McKenzie.Fanning Ave., near Highland Ave., dwell; own.,
Ellen C. Clark; bld., J. E. Herriek.

Willow Ave., dwell; own. and bld., B. T. Skeleton.

Elm St., cor. Hancock St., 2 dwells; own., Eugene
Buckley; bld., Harry S. Freeman.Oak St., near Houghton St., dwell; own., Francis
Lecharis; bld., John McGill.Walter St., near Bradley St., 2 dwells; own.,
Samuel C. Lawrence; bld., W. C. Edwards.Moreland St., dwell; own., G. H. Ames; bld.,
Robert Bennett.School St., dwell; own., Alice V. Hutchinson;
bld., G. E. Hutchinson.Washington St., cor. Mt. Vernon St., dwell; own.,
Benjamin Hadley; bld., Fred Bailey.

BUILDING INTELLIGENCE.

(Houses Continued.)

St. Louis, Mo. — Two-and-one-half-st'y dwell, n e
cor. McPherson St., bet. Boyle and Whittier Sts.;
\$10,000; own., J. Magen; con., N. Schroeder.Two-st'y dwell, Russell St., bet. Compton and
Longfellow Aves.; \$10,000; own., A. Berhill; con.,
L. Morfield.Two-st'y dwell, Laclede St., bet. Boyle and New-
stead Sts.; \$45,000; own., P. Green; con., J. Finney.Worcester, Mass. — Patterson St., three-st'y frame
dwell, own., John E. Doyle; arch., G. P. & J. P.
Kingston; con., F. J. Yates.Sigel St., three-st'y frame dwell; own., James
Shannon; con., J. A. Kennedy.Union Ave., three-st'y frame dwell; own., Wm.
H. Brady; day-work.Salisbury St., two-st'y frame dwell; own., J. E.
Lancaster; arch., W. H. Harvey; con., W. E.
Putnam.Upsala St., one-and-one-half-st'y frame dwell;
own., C. J. Hedberg, C. J. Erikson and N. A.
Anderson.

PUBLIC BUILDINGS.

Rochester, N. Y. — Nolan, Nolan & Stearn are the
architects of the new fire-house to be built on Bel-
mont Park.

STABLES.

Boston, Mass. — Terrace St., near Heath St., Ward
22, 2 two-st'y frame stables, flat roofs, 31' x 40';
own., Oscar Lefevre.Rossiter St., rear, near Bullard St., Ward 24,
frame stable, 29' x 39'; own., F. B. Carleton, 78
Bowdoin St., Dorchester; bld., H. J. McNabb.Blue Hill Ave., (rear) near Rockville St., Ward 24,
two-st'y frame stable, 25' x 51', hip roof; own., C. A.
Cheever; bld., J. H. Burt & Co.Park St., rear, opp. Corey St., Ward 23, two-st'y
brick stable, flat roof, 33' x 85'; own., W. J. Stokes.Brooklyn, N. Y. — Jefferson Ave., n s, 450' e Bedford
Ave., 2 two-st'y brick stables and coachmen's quar-
ters, 25' x 52' 6", gravel roofs; \$2,000 each; own., W.
D. H. Randolph, 239 Hancock St.; arch., Geo. M.
Lawton, 508 Madison St.Hopkins St., s s, 75' w Marey Ave., two-st'y brick
stable, 27' x 60', tin roof; \$4,000; own., E. Glock, 721
Flushing Ave.; arch., Frank Holmberg, 1124 Myrtle
Ave.

Palmetto St., n s, 325' e Irving Ave., two-st'y frame



Copyright, 1893, by THE J. L. MOTT IRON WORKS.
PLATE 1146-G. REDUCED CUT.

THE J. L. MOTT IRON WORKS.

84 to 90 Beekman Street, NEW YORK,

AND

311 & 313 Wabash Avenue, CHICAGO.

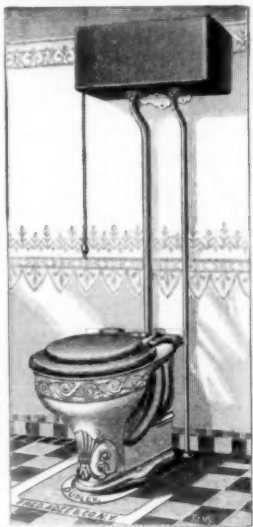
THE RICHMOND

IMPERIAL . . .
PORCELAIN OR
COLONIAL . . .

FLUSHING-RIM SLOP-SINK

Represents a new and valuable departure. The Flushing-Rim is an integral part of the Sink, which is strong and durable. The Sink is glazed inside and out, and is well adapted for Public Buildings, Hospitals, and Residences. The Imperial Porcelain is white inside and light buff outside; the Colonial is light buff inside and outside.

Illustrated price-list mailed on application.



"DUPLIX" THE BEST WATER CLOSET IN THE WORLD

Quiet in Operation,
Positive in Action,
Elegant in Appearance
—AND—
Sanitarily Perfect.

FRED. ADEE & CO.,
90 BEEKMAN ST.,
NEW YORK.

BUILDING INTELLIGENCE.

(Stores Continued.)

stable, 25' x 62', tin roof; \$3,000; own., G. Lalrech, 1540 Gates Ave.; arch., Frank Holmberg, 1124 Myrtle Ave.

Philadelphia, Pa.—*Sansom St.*, No. 2058, Thomas Little & Sons, 217 Pear St., have the contract for the erection of a stable for Barelay Warburton; arch., Louis Marie, Provident Building, Chestnut and 4th Sts.

Wyandung Ave., s s, w 48th St., two-st'y stone, brick and frame stable, 20' x 36'; con., William R. Dougherty, 1604 Sansom St.

Monroe St., No. 429, two-st'y brick stable; con., Du Ross & Dougherty, 1104 South 8th St.

Chestnut Ave., s s, w 30th St., one-st'y stone stable, 29' x 60'; own., Chancellor C. English; con., Wm. J. Grubler, 46 Herman St.

Somerville, Mass.—*Summer St.*, stable; own., H. S. Trueman; bld., James Lounsbury.

School St., opp. Howe St., stable; own. and bld., George E. Hutchinson.

Worcester, Mass.—*Millbury St.*, one-st'y frame stable, 16' x 20'; own., R. H. Mooney; con., L. M. Petterson.

STORES.

Brooklyn, N. Y.—*Broadway*, s w cor. Quincy St., 2 one-st'y brick stores, 40' x 73', gravel roofs; \$6,000; own., John Moller, 57 South 10th St.; arch., H. Anderson & Co., 1130 Broadway; bld., Chas. Schneider, 122 Debevoise St.

Fulton St., n s, 100' w Arlington Pl., two-st'y brick store and dwell., 60' x 95', tin roof; \$10,000; own., J.

BUILDING INTELLIGENCE.

(Stores Continued.)

O. Carpenter, St. Mark's Pl.; arch., Geo. P. Chapell, 24 State St., New York City.

Jerome St., n w cor. Repose Ave., two-st'y frame store and dwell., 20' x 63', tin roof; \$3,600; own., Tony Vollkommer, 220 Bushwick Ave.; arch., E. Shrempf, 496 Bushwick Ave.

Fifty-eighth St., n s, 80' e 3d Ave., four-st'y brick store and dwell., 20' x 40' 2", tin roof; \$5,000; own., Richard Wilhelm, 1106 Third Ave.; arch., H. L. Spicer, 1106 Third Ave.

Irving Ave., w s, 25' s Himrod St., three-st'y frame store and dwell., 25' x 60', tin roof; \$4,000; own., Wm. Ruthman, 1403 Myrtle Ave.; arch., W. B. Willis, 304 Hart St.

Irving Ave., s w cor. Himrod St., three-st'y frame store and dwell., 35' x 65', tin roof; \$4,500; own., Wm. Ruthman, 1403 Myrtle Ave.; arch., W. B. Willis, 304 Hart St.

Irving Ave., w s, 50' s Himrod St., 2 three-st'y frame stores and dwells., 25' x 60', tin roofs; \$4,000 each; own., Wm. Ruthman, 1403 Myrtle Ave.; arch., W. B. Willis, 304 Hart St.

New York, N. Y.—*West Twenty-third St.*, No. 256, seven-st'y brick storehouse, 25' x 92', 85' high, flat tin roof; \$40,000; own., Beltic Hoffstadt, 30 West 85th St.; arch., Louis Koon, 621 Broadway.

Washington St., Nos. 113-115, one-st'y brick storehouse, 38' x 92', 25' high, flat tin roof; \$10,000; own., Jos. Tuckman, Newport, R. I.; mason, W. A. and F. E. Conover, 253 Broadway.

Bulkhead, bet. Pier 3 and 4, North River, one-st'y iron and steel storage-house, 74' x 163', 35' high,

BUILDING INTELLIGENCE.

(Stores Continued.)

peaked tin roof; \$15,000; own., Pennsylvania R. R. Co.; arch., Walter G. Berg, 261 West 52d St.

Broadway, No. 765, four-st'y brick store, 20' x 119', 69' high, flat tin roof; \$25,000; own., John Daniell, 759 Broadway; arch., Emil T. Maurer, 331 Pleasant Ave.

Washington St., n w cor. Charleton St., 2 ten-st'y brick stores, 75' x 100' x 83', 138' high, flat tile roofs; \$275,000; own., Jas. T. and W. S. Pyle, 436 Greenwich St.; arch., Thomas R. Jackson, 61 Broadway.

Madison Ave., n e cor. 92d St., one-st'y brick store-building, 100' x 53', 15' high, flat gravel roof; \$10,000; own. and arch., Albert Wagner, 76 East 92d St.

One Hundred and First St., s w cor. Columbus Ave., six-st'y brick store, 100' x 100', 85' high, flat tin roof; \$150,000; own., Geo. W. Eggers, 692 West End Ave.; arch., Angell & Higginson, 108 Fulton Ave.

Seventy-fourth St., s e cor. Columbus Ave., one-st'y brick store, 98' x 50', 21' high, flat tin roof; \$20,000; own., A. Corning Clark, Cooperstown, N. Y.; arch., Geo. H. Griebel, 247 West 125th St.

Waverly Pl., Nos. 3-5, nine-st'y brick store, 50' x 108', 121' high, flat tin or gravel roof; \$100,000; own., John T. Williams, 871 Madison Ave.

Wester St., e s, 126' s Spring St., seven-st'y brick store, 50' x 98', 85' high, flat tin roof; \$85,000; own., Boehm & Coons, 45 Maiden Lane; arch., G. A. Schillinger, 128 Broadway.

Philadelphia, Pa.—*Fitzgerald St.*, bet. 11th and 12th Sts., 3 two-st'y brick stores and dwells.; own., Young & Bro., 2303 South 12th St.

Sixty-third St., e s below Vine St., one-st'y brick feed store; own., Emil J. A. Thelenberg, 332 North 63d St.

St. Louis, Mo.—Five two-st'y stores, n e cor. 20th and Market Sts.; \$4,000; own., R. Hennessy; con., C. Schmit.

Two-st'y store and dwell., n e cor. Easton St., bet. Pendleton and Newstead Sts.; \$7,000; own., C. Johnson; con., R. McKerry.

TENEMENT-HOUSES.

New York, N. Y.—*Revering St.*, No. 144, five-st'y brick tenements, 22' x 68', 60' high, flat tin roof; \$12,000; own., Henry M. Greenburg, 9 Rutgers St.; arch., Horenburger & Straub, 122 Bowery.

One Hundred and Twenty-fifth St., s e cor. 2d Ave., five-st'y brick tenement, 20' 11" x 13' x 77', 59' high, flat tin roof; \$10,000; own., Louis Harris, 136 East 95th St.; arch., A. B. Ogden & Son, 1031 Madison Ave.

WAREHOUSES.

Jersey City, N. J.—A large warehouse will be built for the New Jersey Storage Warehouse Company; arch., A. F. Leicht, 62 Liberty St., New York City.

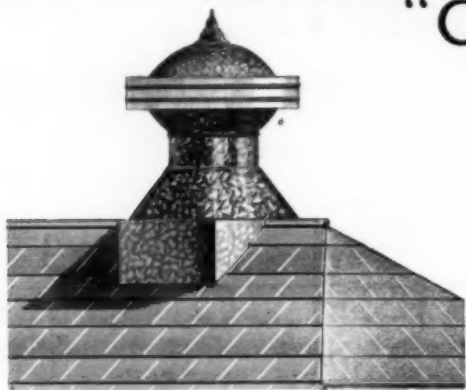
Philadelphia, Pa.—*Belmont Ave.*, below City Line, three-st'y storehouse, 38' x 78'; con., James Johnston, 1713 Sansom St.

MISCELLANEOUS.

Bellefonte, Pa.—Stone armory building, 75' x 140'; for Company B, Fifth Regiment, N. G. P.; arch., Wagner & Reitmeyer, Trust Building, Williamsport, Pa.

Bridgesburg, Pa.—*Richmond St.*, w s, s Wheat Sheaf Lane, two-st'y frame storage house for farm produce; con., George W. Baylie, 4743 Garden St.

Brooklyn, N. Y.—*Fifth Ave.*, Nos. 734-736, one-st'y brick greenhouse and office, 50' x 100', glass and iron



"COME OFF THE ROOF"

may be a slang expression, but it doesn't apply to

GLOBE VENTILATORS.

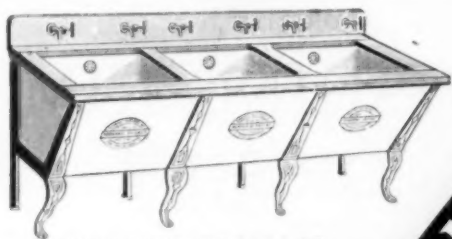
They "Get there" and "Stay there,"

Through sunshine and through storm, doing their work silently, steadily, satisfactorily.

Send for Special Pamphlet on Ventilation.

MANUFACTURED BY

GLOBE VENTILATOR COMPANY,
TROY, NEW YORK.



SOLE MANUFACTURERS OF
MORAHAN'S PATENT SOLID WHITE
CROCKERY STATIONARY

WASH TUBS

Perfectly Glazed, Smooth Surfaces.
No labor required to keep clean.
Cannot absorb, leak or decay.
Not affected by heat or cold.
No seams to open. Very strong.
Over fifteen years on the market.
Warranted for thirty years against
injury, violence excepted.
Thousands in use.
BEWARE OF IMITATIONS.

The Only PERFECT
SANITARY TUBS
in Existence.

**312
PEARL STREET,
COR. PECK SLIP
NEW YORK.**

**259 WABASH AVENUE,
CHICAGO, ILL.**

Three Highest Awards Columbian Exposition.



SOLID WHITE
CROCKERY

BUTLER'S
PANTRY, SLOP &

KITCHEN SINKS.

SAME MATERIAL AND STRENGTH AS TUBS.

"THE CAST SINK MUST GO"

THE COLUMBUS SINK DISPLACES ALL OTHERS

PAINTED, GALVANIZED, ENAMELLED.

* Send for descriptive circular and prices, to
The Kilbourne & Jacobs Mfg. Co.
Sole Manufacturers. — COLUMBUS, OHIO

BUILDING INTELLIGENCE.

(Miscellaneous Continued.)

roof; \$5,000; own., John Condon, 734 Fifth Ave.; arch., Lord & Burnham Co., Irvington on Hudson, N. Y.

On Wharf, bet. 39th St. and 40th St., w 2d Ave., one-st'y brick power-house, 106' x 150', No. 20 galvanized iron roof; \$70,000; own., Nassau Electric R. R. Co., 39th St. to 43d St., South Brooklyn; arch., The Berlin Iron Bridge Co., 706 Bennett Building, New York City.

Hartford, Conn. — Asylum Ave., at Woodside Seminary, two-st'y frame structure, 21' x 62', for gymnasium and music-rooms; own., J. J. Goodwin; bld., West & Simms.

Lansdowne, Pa. — Three-st'y brick and stone "Froebel" Institute with slate roof. Estimates are being made by John R. Wiggins, of Philadelphia, and other contractors; arch., W. C. & T. B. Pritchett, 424 Walnut St., Philadelphia.

Philadelphia, Pa. — Bainbridge St., n w cor. Twenty-fourth St., one-st'y brick engine-house and one-st'y vat house; own., Carter & Scattergood; con., Benner & Opdyke, 1430 South Penn Sq.

Twentieth St., w s, 60' n Reed St., two-st'y stone and brick building; con., John P. Leonard, 812 North 17th St.

Eighteenth St., e s, n Jefferson St., four-st'y stone and brick asylum, 48' x 58'; con., Nicholas Cavanagh, 321 North 40th St.

Fork St., n e cor. 26th St., three-st'y brick and stone city fire station, 29' x 75'; con., Doyle & Doak, 133 South 15th St.

River Road, above Fountaine St., one-st'y brick and stone filter house, 34' x 100'; con., John W. Fritzinger, 462 Lyceum Ave.

School Lane, s Gypsy Lane, 3 one-st'y brick and stone hot-house; con., Henry M. Kister, 129 South 7th St.

THE VAN VRANKEN FLUSH TANK.

For Sewers, Subsoil Disposal, etc.

For catalogues, discounts and other particulars, address

J. LELAND FITZGERALD,
437 STATE STREET, SCHENECTADY, N. Y.

BUILDING INTELLIGENCE.

(Miscellaneous Continued.)

Tamaqua, Pa. — Three-st'y brick, stone and terra-cotta Odd Fellows Hall with stores on first floor; arch., Walters & Plack, 1414 South Penn Sq., Philadelphia, Pa.

PROPOSALS.

HOSPITAL BUILDINGS.

[Near Massillon, O.]

Proposals are wanted until August 9, for several new buildings for the Massillon State Hospital. Address YOST & PACKARD, architects, Columbus, O. 971

SCHOOL HOUSE.

[At Riverside, O.]

Proposals are wanted until August 3, for a school-house. Address J. M. BARKLEY, as above. 970

Treasury Department, Office Supervising Architect, Washington, D. C., July 11, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 14th day of August, 1894, and opened immediately thereafter, for all the labor and materials required for the erection and completion of the United States Post-office building at Meridian, Miss., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Meridian, Miss. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Erection and Completion of the United States Post-office building at Meridian, Miss.," and addressed to JEREMIAH O'BROURKE, Supervising Architect. 970

BROUGHTON SELF-CLOSING

COCKS.

EVERY

ONE

WARRANTED.



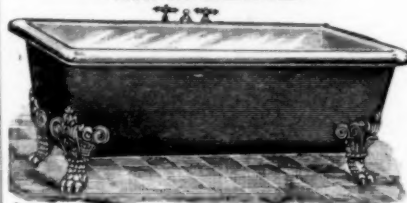
Send for Circular.

E. STEBBINS MFG CO.

Sole Manufacturers.

BRIGHTWOOD, MASS.

MADELINE



ROLLED RIM,

Porcelain-lined Iron Bath.

A NEW BATH, DOES AWAY ENTIRELY WITH WOODWORK. ALWAYS SWEET AND CLEAN. CANNOT GET OUT OF ORDER, AND IS PRACTICALLY INDESTRUCTIBLE.

HAINES, JONES & CADBURY CO.,

MANUFACTURERS OF

High-class Plumbing Goods,

1136 Ridge Avenue - PHILADELPHIA.

PROPOSALS.

Proposals for Iron Furring and Lathing. Office for Building for Library of Congress, 145 East Capitol St., Washington, D. C., July 19, 1894. Sealed proposals for furnishing, delivering and putting in place complete, the iron furring and lathing required for the ceilings of the north, east and south curtains, second story, of the Building for Library of Congress, in this city will be received at this office until 2 o'clock P. M., on Saturday, the 4th day of August, 1894, and opened immediately thereafter in presence of bidders. Specifications, general instructions and conditions and blank forms of proposal may be obtained on application to this office. BERNARD R. GREEN, Superintendent and Engineer. 970

Fire-proof Building.**RARITAN HOLLOW & POROUS BRICK CO.,**

MANUFACTURERS OF

Hollow Fire-Clay and Porous Terra-Cotta Bricks

of Every Description, for Fireproof Buildings.

BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.

Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.

Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.

HENRY MAURER & SON,

Manufacturers of

FIRE-PROOF BUILDING MATERIAL

Of every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.

Porous Terra-Cotta, Fire-Brick, etc., etc.

Works, MAURER, N. J. Office and Depot, 430 EAST 23d STREET, New York.

Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."

**C. PARDEE
WORKS,**Manufacturers All Kinds Fireproof Building Materials, etc.
Perth Amboy, N. J. See ad. on page XVI.**PIONEER FIREPROOF
CONSTRUCTION CO.**

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile AND Porous Terra-Cotta**FOR FIREPROOFING BUILDINGS.**

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

**TO ARCHITECTS,
BUILDERS
AND OWNERS.**

Sample and Circulars Free.

MINERAL WOOL,As a Lining in Walls and Floors for preventing the
ESCAPE OF WARMTH AND THE DEADENING OF SOUND.**AMERICAN MINERAL WOOL CO.**

Lessee of

Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N. Y. City.

Roebling STANDARD Wire Lathing
FIREPROOF—DURABLE—ECONOMICALPays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures
a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three
public tests—detailed accounts of which will be mailed to any address upon request.**THE NEW JERSEY WIRE CLOTH COMPANY,
TRENTON, N. J.****Building Stones.****J. P. FALT & COMPANY,**

Quarrymen & Miners of

RED SANDSTONE.

Contractors for CUT-STONE WORK.

Proprietors of Carlisle Quarries, Springfield, Mass.
Prices for rough stone furnished on application,
and estimates made for cut-stone work to be delivered
at any railroad point. Correspondence solicited.
Send for samples.**BOSTON FIRE-BRICK WORKS.****FRONT BRICK**BUFF, BROWN, MOTTLED YELLOW,
GRAY, OLD GOLD AND
OTHER COLORS.**ARCHITECTURAL
TERRA-COTTA**

In all its varied colors and forms.

FISKE, HOMES & CO.,

MANAGERS,

Factories on Federal Street and
at South Boston.

Office, 164 Devonshire St., Boston.

Times Building, Park Row, New York.

927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.

SOLE OWNERS AND MANUFACTURERS OF

J. G. MERRILL'S PATENT

SALAMANDER

Fire-Proof Composition

FOR BUILDINGS.

Used as Lining between
Floors, and upon Walls,
Ceilings, Elevator and
Light Shafts, Boiler Rooms,
Doors, Shutters, etc. It is
Air, Dust, and Vermin
Proof, and a Sound-

Deadener.

Office, 166 Devonshire Street, BOSTON.

A. J. HODDER, Pres.

CHAS. T. BAKER, Treas.

W. D. LOMBARD, Gen. Mgr.

Room 49 Master Builders
Assoc. Bldg.

For estimates on

**ASPHALT
WORK**of every descrip-
tion apply to Man-
ager,

T. Hugh Boorman,

N. Y. Mastic Works,

35 Broadway, N. Y.

Asphalt Mine Owners in France, Sicily, etc.

BROOKS, SHOOBRIDGE & CO.,**PORTLAND CEMENT.**

Works: Grays, Essex, England.

New York Office: 7 Bowling Green

Massachusetts Material-Men and Contractors.**ARTIFICIAL STONE.**SIMPSON BROS.
166 Devonshire St.
Boston, Mass.**BUILDING CONTRACTORS.**LITTLEFIELD BUILDING CO.
Incorporated.
Room 57, 166 Devonshire St.
Boston, Mass.**CARVERS, MODELLERS.**JOHN EVANS & CO.
77 Huntington Ave.
Boston, Mass.**ELECTRIC WORK.**BLODGETT BROS. & CO.
383 Federal St.
Boston.**FIREPROOFING.**BOSTON FIREPROOFING CO.
166 Devonshire St.
Boston, Mass.**FURNACES.**CYRUS CARPENTER & CO.
44 Hanover St.
Boston, Mass.**GRANITE.**GRANITE RAILWAY CO.
166 Devonshire St.
Boston, Mass.**HEATING. (Air & Water)**MAGEE FURNACE CO.
30-3 Union St.
Boston, Mass.**HEATING CONTRACTOR.**W. E. FLORENCE,
247 Pynchon St.
Boston, Mass.**IRON WORK. (Building)**R. F. HAWKINS' IRON WORKS,
Springfield,
Mass.**MANTELS. (Wood)**J. W. BAILEY & SONS CO.
14 Charlestown St.
Boston, Mass.**MASON CONTRACTORS.**THOMAS J. LYONS,
166 Devonshire St.
Boston, Mass.**PAPIER MACHÉ.**CONLAN & MAYBECK,
65 Warcham St.
Boston, Mass.**PRINTING.**S. J. PARKHILL & CO.
218-226 Franklin St.
Boston, Mass.**SASH CORD.**SILVER LAKE CO.
78 Chauncy St.
Boston, Mass.**SLATE. (Roofing)**H. H. MATHEWS,
178 Devonshire St.
Boston, Mass.

Bricks and Terra-Cotta.

HYDRAULIC BRICK,
PLAIN AND MOULDED
OF ANY COLOR.
RED, BUFF, GRAY, BROWN,
PINK, MOTTLED, GRANITE.

Total Annual Capacity, 100,000,000.

HYDRAULIC-PRESS BRICK CO.,
ODD FELLOWS' BUILDING,
ST. LOUIS, MO.

PERTH AMBOY
TERRA-COTTA COMPANY,

PERTH AMBOY, NEW JERSEY.

OFFICE, 289 Fourth Ave., NEW YORK.

PHILADELPHIA
OFFICE,
DREXEL BLDG.

BOSTON AGENTS,
WALDO BROS.,
88 Water Street.

TIFFANY PRESSED BRICK CO.,
Manufacturers of
Pressed and Enamelled Brick,
Plain and Ornamental,
403 Chamber of Commerce Bld'g,
CHICAGO.

BUILDING-BRICK.

YARDS at West Brimfield, Mass., on Boston & Albany R. R., and at Amherst, Mass., on Central Vermont R. R. (New London Northern Div.) and Boston & Maine R. R. (Central Mass. Div.).

CAPACITY, 7,000,000 Annually.
Address, MARCY & GARDNER,
PALMER, MASS.

"Architects" SPECIFY **LAFARGE'S CEMENT**

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,
Importer and Sole Agent,
81 and 83 Fulton St., N. Y.

GOETZ BOX ANCHOR

SELF RELEASING AND PREVENTS
DRY ROT IN TIMBER.

GOETZ POST CAP

STRONGEST OF ALL AND YET
SELF RELEASING.

GOETZ JOIST HANGER

WROUGHT IRON MACHINE MADE.
STRONGEST AND CHEAPEST.
BORE TWO HOLES. NO MORTISING.

GOETZ BOX ANCHOR CO.,
72 STATE ST., NEW ALBANY, IND.

SEND
FOR
CATALOGUE.

**NEW YORK
ARCHITECTURAL TERRA COTTA
COMPANY.**

OFFICE,
38 PARK ROW,
New York City.

WORKS,
LONG ISLAND CITY,
New York.

GENERAL AGENTS FOR NEW ENGLAND:
BOSTON FIRE BRICK COMPANY,
Fiske, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.

STEPHENS, ARMSTRONG & CONKLING,
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, Philadelphia, Pa.

—INDIANAPOLIS—
TERRA-COTTA CO.

Works: Brightwood, Ind.

ESTIMATES ON SPECIAL DESIGNS PROMPTLY
FURNISHED. WRITE FOR CATALOGUE
AND DISCOUNTS.

SEMI-GLAZE OR DEAD-FINISH.
ALL COLORS.

**POMPEIIAN,
BUFF AND RED PRESSED,
ALSO ORNAMENTAL**

FACE BRICK MANUFACTURE.

CAPACITY, 100,000,000 PER ANNUM.

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

**FRONT BRICKS
—AND—
TERRA-COTTA**

—IN OVER TWENTY COLORS.—

Chimney Flue Linings, Chimney Tops, Drain
Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,
86 WATER STREET. - - BOSTON.

THE
Northwestern Terra-Cotta Co.
Manufacturers of
Architectural Terra-Cotta.

WORKS & MAIN OFFICE:
Cor. Clybourn & Wright-
wood Avenues.

CITY OFFICES:
Room 1118 Rookery Bldg.
cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for
Catalogue and Samples.

BRICK OF ANY COLOR
AND
OF ALL SHAPES.

BRICK FIREPLACES.

BALTIMORE ROOFING TILE CO.

BURNS, RUSSELL & CO., Proprietors,

535 Columbia Avenue, Baltimore, Md.,

MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other
styles of Clay Roofing Tiles in all colors,
glazed or unglazed.

CATALOGUE ON APPLICATION.



NO. 3 SPANISH.



ROMAN

C. PARDEE WORKS, Perth Amboy, N. J.
MANUFACTURERS
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIREPROOF BUILDING MATERIALS, ETC.

THE GENUINE

Taylor **"OLD STYLE"** brand

is the only Warranted
Roofing Tin made.

N. & C. TAYLOR CO., Manufacturers,
[Established 1810.] PHILADELPHIA.

DIXON'S AMERICAN GRAPHITE PENCILS

FOR DRAUGHTING.

By mentioning *American Architect and Building News*, and sending 16 cents
in stamps, you will receive an assortment of draughting pencils worth
double the money, and unequalled for smooth, tough and uniform leads.

JOSEPH DIXON CRUCIBLE CO. - - JERSEY CITY, N. J.

Porcelain Bath Tubs

"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.

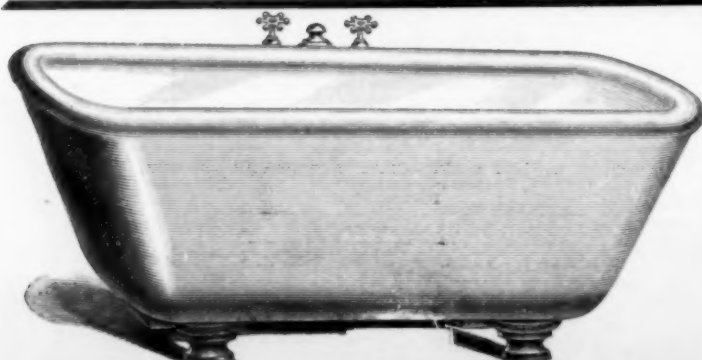
"SLUICE" Syphon Jet Water Closet.

MINTON'S TILES

For Bathrooms, Halls and Vestibules; Glazed,
Unglazed and Enamelled.

MILLER & COATES, 279 PEARL STREET
NEW YORK.

260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.



THE ONLY MEDAL AND AWARD FOR SHINGLE STAINS
At the World's Columbian Exposition
HAS BEEN AWARDED TO
DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.



MAGNESIA COVERING
most effectively and lasts. If it

The margin in heat between your steam-pipes and the atmosphere is so great that it will pay you to save it to the former by covering them. is the best, because it saves the heat most possible.

THE KEASBEY & MATTISON CO. (Successors to the MAGNESIA SECTIONAL COVERING CO.), Ambler, Pa.
ROBERT A. KEASBEY, 54 Warren Street, New York. S. O. NIGHTINGALE & CHILDS, 134 Pearl Street, Boston, Mass.

**Conservatories,
GREENHOUSES,
VINERIES,**

Shipped to any part of the country, and erected complete, ready for use.
Plans embrace the latest improvements.
Unequalled facilities for manufacturing. Thirty-five years' experience. Catalogue sent on application.
Address, stating requirements,

LORD & BURNHAM COMPANY,
IRVINGTON-ON-HUDSON, N. Y.

**FIDELITY
FRANCE.**

Pat. Apr. 20, 1890.

ELEVATED BOILER, Plain or Hot Air, Right or Left Hand, with or without Hot Closets. Just the thing for Flats and Small Houses.

Send for circulars.

Isaac A. Sheppard & Co.
PHILADELPHIA
OF BALTIMORE.
WM. KERBY, Agt.
4 Peak Slip, New York.



Galvanized Steel Shingles

DIFFERENT SIZES AND
DESIGNS.
SAMPLES FREE.

PRICES LOW.

CORTRIGHT
METAL ROOFING CO.
Broad & Hamilton Sts.,
Phila., Pa.
134 Van Buren Street,
Chicago, Ills.

PEERLESS COLORS FOR MORTAR.

BLACK, RED, BROWN, BUFF. NEW COLORS, MOSS GREEN, ROYAL PURPLE, FRENCH GREY, POMPEIIAN BUFF, COLONIAL DRAB.

THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.

ALSO

PLASTER ARCHITECTURAL ORNAMENTS FROM ORIGINAL AND SPECIAL DESIGNS.

SAMUEL H. FRENCH & CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.

ALPHABETICAL LIST OF ADVERTISERS.

The (E) indicates that the advertisement may be found in the last or the following issue: the (M) that it may be found in the first issue for each month.

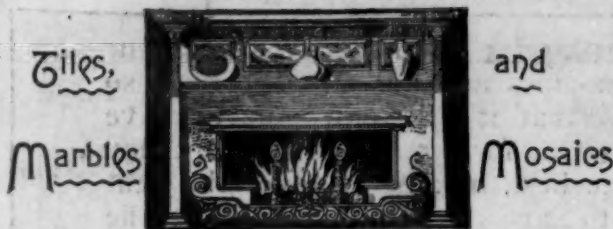
A.		E.		L.		R.	
Abel, C. C. & Co.	E	Elektron Mfg. Co.	E	Lamb & Ritchie.	L	Randolph & Clarks.	R
Adams & Co., Fred.	M	Falt & Co., J. P.	F	Laurel Bros.	M	Rehman Hollow & Foreman Brink Co.	M
Aschmann & Pellarini.	M	Farquhar's Sons, John.	M	Lawrence Cement Co.	(Cov.) 4		
Allen's Cement Works.	M	Ferrand & Votey Organ Co.	M	Lord & Burnham Co.	(Cov.) 3		
American Boiler Co.	M	Fisher & Co., Robert C.	M	Lowley Taylor Wire Co.	M		
American Fireproofing Co. (Salamander)	M	Flake, Homes & Co.	M				
American Wool Co.	M	Flanagan, J. Leland.	M				
Apelle Iron & Steel Co.	(Cov.) 2	Fleming Cement & Brick Co.	M				
Armstrong & Co., Mailand.	M	For's m Snow Guard Co.	M				
B.							
Babcock & Wilcox.	M	Frank, I. P.	M				
Baily & Truscott.	M	Frost & Adams.	M				
Baltimore Roofing Tin Co.	M						
Barley, J.	(Cov.) 3						
Batterson, See & Elsie.	M						
Bell, George H. & Co.	M						
Belmont Iron Works.	M						
Beyer Bros.	M						
Berger Mfg Co.	M						
Bickelhaupt, G.	(Cov.) 2						
Bischoff & Co., Fred F.	M						
Blake Bell Co.	M						
Brand, James.	M						
Bridgeport Wood Finishing Co.	(Cov.) 4						
Brinley, W. B.	M						
Brooks, Shoobridge & Co.	M						
Brownville Maine Slate Co.	M						
Buckeye Portland Cement Co.	M						
Burkitt & Williams.	M						
C.							
Cabaret, Paul E.	M						
Cabot, S.	M						
Central Expanded Metal Co.	M						
Chicago Interior Decorating Co.	M						
Chrome Steel Works.	M						
Cincinnati Corrugating Co.	M						
Clark, Burnett & Co.	(Cov.) 4						
Clark, G. S.	M						
Clinton Wire Cloth Co.	M						
Comstock, Wm. T.	M						
Continental Insurance Co.	M						
Correspondence School of Mechanics.	M						
Cortright Metal Roofing Co.	(Cov.) 3						
Cudell, F. E.	M						
Cutler Mfg. Co.	M						
D.							
Danshy Iron Works.	M						
Deane, E. Eldon.	M						
Devoe & Co., F. W.	M						
Dexter Bros.	(Cov.) 3						
Dixie Creamery Co.	M						
Duggan, T. H.	M						
E.							
F.							
G.							
H.							
I.							
J.							
K.							
L.							
M.							
N.							
O.							
P.							
Q.							
R.							
S.							
T.							
U.							
V.							
W.							
X.							
Y.							

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th St.
NEW YORK CITY.

Designers and Manufacturers of...

MANTELS
OPEN FIREPLACES ..
GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 65 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.

PRIZE MEDALLISTS.

REMINISCENCE OF 1862, 1863, 1867, 1873, 1876, AND ONLY AWARD AND MEDAL FOR NOISELESS, SELF-COLLING STEEL SHUTTERS AT PHILADELPHIA, 1876; PARIS, 1878; AND MELBOURNE, 1881.

CLARK, BUNNETT & CO. (Limited)

Late CLARK & COMPANY,

ORIGINAL INVENTORS AND SOLE PATENTEES OF NOISELESS

Self-Colling, Revolving **STEEL SHUTTERS** Fire & Burglar Proof.
Also Improved Rolling Wood Shutters, and Clark's Patent Metallic Venetian Blinds.

The BEST in the Market. Send for Catalogues, etc., to

162 and 164 West 27th St. - - New York.

ALSEN'S

PORTLAND CEMENT

(GERMAN.)

The Strongest, Finest Ground and Most Uniform
Cement Made in the World.

The Largest Works and Greatest Production.

U. S. OFFICE, 143 Liberty Street, NEW YORK.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

We invite Correspondence.
Send for Catalogues.

HEAD
OFFICE:

Gurney Heater Mfg. Co.

163 Franklin St., Cor.
Congress, Boston, Mass.

SELLING AGENCIES. { JOHNSON & Co., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHSEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

Endorsed by the leading
Architects and Engineers.



JAS. G. WILSON, Patentee and
74 West 23d St., New York. Manufacturer,



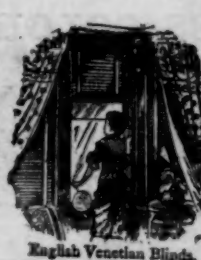
Rolling Steel Shutters.



Rolling Venetian Blinds.



Rolling Partitions.



English Venetian Blinds.

NJ. STEEL & IRON CO.,
TRENTON, N.J.

IRON AND STEEL BEAMS

CHANNELS, ANGLES & TEES

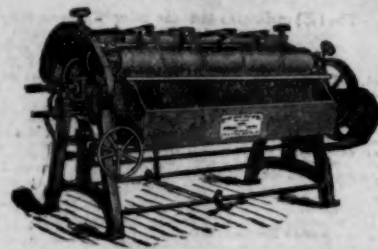
GOOPER, HEWITT & CO.
NEW YORK.

TROY LAUNDRY MACHINERY CO.

[LIMITED.]

FACTORIES: { 648-650 Fulton St., Troy, N. Y.
365-405 Fifth Ave., Chicago, Ill.

SALESROOMS: { 15 Warren St., New York.
581-583 Mission St., San Francisco, Cal.



Our line the largest and most complete in the world.

Send for Illustrated Catalogue Z.



WHEELER'S PATENT WOOD FILLER.

The only Article to give a

DURABLE, ECONOMICAL, NATURAL and PERFECT FINISH to HARD WOOD

Send for Pamphlet Giving Information on Finishing Hard Wood.

THE BRIDGEPORT WOOD-FINISHING CO., NEW MILFORD, CONN.

GRANVILLE M. BREINIG, General Agent and Superintendent. New York Office, 240 Pearl St. Chicago, 206 East Lake St.
New England Agents: Charles Richardson & Co., 85 & 89 Oliver St., Boston, Mass.

At the World's Fair, Chicago, 1893, as at every place ever exhibited, our WHEELER'S PATENT WOOD FILLER and BREINIG'S LITHOGEN SILICATE PAINT received medal and highest awards.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen. Agts.,
Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Masons' Materials.

Send for Pamphlet.



80-Paged Illustrated Catalogue
of over 250 Designs of
Superior

**WEATHER VANES,
TOWER ORNAMENTS,
CHURCH CROSSES,
FINIALS, Etc., Etc.**

Mailed to any address for 2-cent
stamp—half the postage.

T. W. JONES, Manufacturer,
170-172 FROST ST., New York.

THORN'S

PATENT

METALLIC ROOFING,

Tiles and Spring-Lock Shingles.

8 DESIGNS

The best, most handsome,
durable and secure roofing
plates yet offered to the
building trade. Indorsed
by all the leading archi-
tects. Send for catalogue.

**Thorn Shingle and
Ornament Co.,**

1227 Callowhill St., Philadelphia.

THE AMERICAN ARCHITECT AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. XLV.—No. 971.]

SATURDAY, AUGUST 4, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS.
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Ricker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE.
Louis De Coppet Berg.
PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.

COOPER INSTITUTE.
E. A. Miller.

INSTITUTE OF ARTIST-ARTISANS.
140 West 23d Street.
John Ward Stimson.

METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.
S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Truscott.

UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

[Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.]

CONSTRUCTION.

BERG, LOUIS D'O. Two Vols., each \$5.00
"Safe Building."

New York (66 Fifth Ave.): Macmillan & Co.

CHANDLER, F. W. \$10.00
"Construction Details."

Boston (211 Tremont St.): Heliotype Printing Co.

CLARK, T. M. \$3.00
"Building Superintendence." Cuts.

New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts. \$2.00 each.
"Architectural Rendering in Pen and Ink."

Boston (211 Tremont St.): Heliotype Printing Co.

WARE, WILLIAM R., PROFESSOR. \$5.00
"Modern Perspective."

New York (66 Fifth Ave.): Macmillan & Co.

STYLES.

GOTCH, J. A., and W. T. BROWN. 6 Parts. \$48.00
Four Parts now ready.

"Architecture of the Renaissance in England."

New York (743 Broadway) Charles Scribner's Sons.

WHITTIER MACHINE CO., ELEVATORS,

53 STATE STREET - - BOSTON.

93 LIBERTY STREET, NEW YORK.

526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD

For all kinds of

PASSENGER AND FREIGHT ELEVATOR SERVICE.

OTIS BROTHERS & CO.,

NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,

ELEVATOR AND MACHINE WORKS,
COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.

STEAM AND HYDRAULIC,

For Freight and Passenger use.

ELECTRIC ELEVATORS. THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,

For passenger and freight service.

Large experience. Many in use.

First cost moderate.

Running Expense much less than Hydraulic.

Also makers of low-speed Perret Electric Motors and Dynamos.

General office and factory, Springfield, Mass.

New York Office, 126 Liberty Street.

Boston Office, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES,

For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate. References, Principal Architects and Decorators of New York.

AESCHLIMANN & PELLARIN,

37 CLINTON PLACE,

Between Broadway and University Place, New York.

SANITARY CONDITION OF

DWELLINGS examined by T. H. DUGGAN,

Plumber, 141 DARTMOUTH STREET, BOSTON.

Fine Plumbing Materials, First-class Workmanship.

Telephone call, Tremont No. 165.

THE F. O. NORTON CEMENT,

Specified by all leading Architects.

OFFICE, 92 BROADWAY, NEW YORK.

STANDARD ELEVATOR CO.,

HIGHEST GRADE

PASSENGER AND FREIGHT } ELEVATORS.

OFFICE AND WORKS,

15th Street and Ashland Ave.,

Chicago, Ill.

PENN ELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.

PASSENGER AND FREIGHT ELEVATORS, every description.

See our new Electric and Hydraulic before purchasing.

Works, Bloomsburgh, Pa.

Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.

GENERAL OFFICE, PALMER, MASS.

We contract to perform all labor and furnish all material of the different classes required to build complete

CHURCHES, HOTELS, MILLS, PUBLIC BUILDINGS AND RESIDENCES.

Also for the construction of RAILROADS, DAMS AND BRIDGES.

We solicit correspondence with those wishing to place the construction of any proposed new work under ONE CONTRACT, which shall include all branches connected with the work. To such parties we will furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO.,

STAINED GLASS & DECORATIVE WORK.

Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.

Sole Agents for

CLAYTON & BELL, GLASS STAINERS, LONDON.

61 Washington Square, South, New York, N. Y.

TIFFANY GLASS & DECORATING COMPANY.

FURNISHERS OF GLASS WORKERS, DOMESTIC & ECCLESIASTICAL.

DECORATIONS. MEMORIALS.

333 TO 341 FOURTH AVENUE, NEW YORK.

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHERE & CO.),

Importers and Workers of

MARBLE, ONYX AND GRANITE,

425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

ROBERT C. FISHER & CO.,

Successors to FISHER & BIRD,

MARBLE AND GRANITE WORKS,

97, 99, 101 and 103 EAST HOUSTON STREET,

Established 1890.

NEW YORK.

FIDELITY RANGE.

Pat. Apr. 23, 1890.

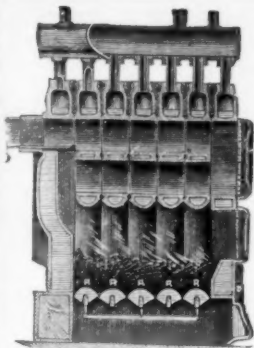
ELEVATED BOILER, Plain or Hot Air, Right or Left Hand, with or without Hot Closets. Just the thing for Flats and Small Houses.

Send for circulars.

Isaac A. Sheppard & Co.

PHILADELPHIA
or BALTIMORE.

WM. KERBY, Agt.
4 Peek Slip, New York.



Mercer Boiler.

The H. B. SMITH CO.,

MANUFACTURERS OF

HEATING APPARATUS

Steam and Water

For Public Buildings and Private Residences.

SPECIALTIES:

MERCER'S Patent Improved Sectional Boilers,
MILLS'S Safety Sectional Boilers,
GOLD'S Improved Sectional Boilers,
REED'S Improved Cast-Iron Radiators,
"THE UNION" Hot-Water Radiators,
BRECKENRIDGE'S Patent Automatic Air Valves,
GOLD'S Indirect Pin Radiators.

Office & Warerooms, 137 Center Street, New York.

Foundry, Westfield, Mass. Catalogues sent on application.

FOR INFORMATION ABOUT

U. S. MAIL CHUTES

WHICH ARE

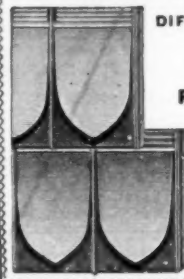
A necessity in Office Buildings and Hotels,
write to the sole makers,
THE CUTLER MFG. CO., ROCHESTER, N. Y.
PATENTED. AUTHORIZED.

Galvanized Steel Shingles

DIFFERENT SIZES AND
DESIGNS.
SAMPLES FREE.

PRICES LOW.

CORTRIGHT
METAL ROOFING CO.
Broad & Hamilton Sts.,
Philada., Pa.
134 Van Buren Street,
Chicago, Ills.



WILKS
HOT WATER
HEATERS
AND STEAM GENERATORS.

ALL STEEL. BEST IN USE.
For all Steam and Hot Water Heating.
SEND FOR CATALOGUE.

S. WILKS MANUFACTURING COMPANY,
123 So. Clinton Street, CHICAGO.

NATIONAL

Fine Art Foundry,

218 East 25th Street, New York.

Artists' Models cast in Standard Bronze.

Architects' Designs Executed.
Artistic and Enduring Monuments
in Granite and Bronze.

No Catalogues.

MAURICE J. POWER.



Conservatories, GREENHOUSES, VINERIES,

Shipped to any part of the country, and erected
complete, ready for use.

Plans embrace the latest improvements.
Unequalled facilities for manufacturing. Thirty-five
years' experience. Catalogue sent on application.

Address, stating requirements,

LORD & BURNHAM COMPANY,
IRVINGTON-ON-HUDSON, N. Y.

PROCURE THE BEST

by specifying

American Boiler Company HEATING AND VENTILATING APPARATUS.

FOR STEAM—"AMERICAN," "FLORIDA," "MODERN," "SOLEIL."
FOR WATER—"ADVANCE," "BOLTON," "PERFECT," "LITTLE
GIANT," "SPENCE," "TROPIC."

18 Styles. 174 Sizes.

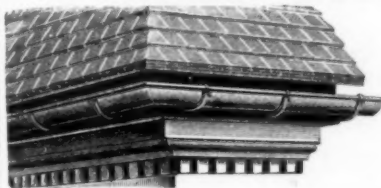
CAPACITY { STEAM, 100 to 4,200 Square Feet.
WATER, 75 to 7,500 " " }

Write for Catalogues and Particulars.

American Boiler Company

"SOLEIL" BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
195 Ft. Hill Sq. 94 Center St. 84 Lake St. 127 6th St.

NOTICE TO ARCHITECTS.



This cut shows the additional width, strength
and beauty of an eave finished with a hanging,
expanding Gutter hung with

"Berger's Favorite Hangers,"

now superseding every other device.

BERGER BROS.,

237 Arch Street, - PHILADELPHIA.

DRAWING-OFFICE.

Drawings rendered in line or color with
reasonable despatch.

ADDRESS THE EDITORS OF THE AMERICAN ARCHITECT.

BUILDING MATERIALS.

Reported for the American Architect and Building News.

	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
LUMBER.—P. M.				
Boards: (Ordinary dimensions.)				
Pine, 1st quality, clear	65 00 @ 75 00	55 00 @ 70 00	42 00 @ 50 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	27 00 @ 38 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	20 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	@ 25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock	ea 134 @ 14	104 00 @ 15 00	@ 12 00	11 25 @ 13 50
Yellow pine	20 @ 40	23 00 @ 35 00	21 00 @ 34 00	14 00 @ 29 00
Cypress	@	28 00 @ 40 00	18 00 @ 34 00	@ 35 00
Clapboards:				
Pine	@	38 00 @ 55 00	19 00 @ 22 50	14 00 @ 25 00
Spruce	@	23 00 @ 38 00	Not sold.	Not sold.
Framing Timber:				
Pine			12 00 @ 17 50	25 00 @ 37 50
Spruce	14 00 @ 18 00	14 00 @ 17 00	Not sold.	16 00 @ 18
Hemlock	12 00 @ 16 00	13 00 @ 15 00	10 00 @ 13 00	13 00 @ 17
Yellow pine	18 00 @ 21 00	20 00 @ 35 00	24 00 @ 34 00	22 00 @ 28
Laths:				
Pine	Slab	2 25 @ 2 50	@ 2 40	2 75 @ 3
Spruce	1 65 @ 1 75	2 00 @ 2 50	Not sold.	2 30 @ 3 00
Shingles:				
Pine, shaved	P. M. 5 00 @ 6 00	@	Not sold.	
Pine, sawed	4 00 @ 5 00	@ 4 50	2 25 @ 2 50	
Spruce, sawed	1 50 @ 2 00	1 50 @ 00	Not sold.	
Redwood	1 40 @ 1 60	3 25 @ 3 75	6 00 @ 7 50	(30" @ 35 @ 40
Cedar split	@	@	Not sold.	24" @ 3 @ 21
Cedar sawed	@	2 00 @ 3 75	2 60 @ 2 75	20" @ 35 @ 14
Cypress, Split	18 00 @ 20 00	5 00 @ 6 00	3 50 @ 4 00	11 00 @ 14 00
Miscellaneous:				
Piles	P. ft. 44 @ 54	P. ft. 10 00 @ 18 00	Cut to order.	9 00 @ 13 00
Fence pickets, Common	8 00 @ 10 00	25 @ 50	P. 10 00 @ 22 00	40 @ 1 25
Cedar posts, 9 ft. (sq. posts.)	@	25 @ 50	9 @ 21	20 @ 30
Chestnut posts	@	25 @ 50	Not sold.	
Finishing Woods: P. M. (First				
Ash	@ 55 00	45 00 @ 60 00	14 00 @ 30 00	42 50 @ 47 50
Cherry	80 00 @ 120 00	90 00 @ 120 00	35 00 @ 90 00	100 00 @ 120 00
Butternut	40 00 @ 60 00	60 00 @ 70 00	17 00 @ 35 00	70 00 @ 80 00
Hard-pine floors (rift)	@ 50 00	42 00 @ 50 00		
Mahogany, Baywood [Mexican]	@ 180 00	160 00 @ 170 00	110 00 @ 170 00	150 00 @ 250 00
St. Domingo	@ 350 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Maple	45 00 @ 50 00	45 00 @ 50 00	12 00 @ 20 00	25 00 @ 55 00
Oak, red	@ 70 00	40 00 @ 50 00	17 00 @ 27 00	42 50 @ 55 00
" white	@ 70 00	45 00 @ 55 00	16 00 @ 28 00	45 00 @ 55 00
" quartered	@ 90 00	65 00 @ 75 00	34 00 @ 40 00	60 00 @ 75 00
Sycamore quartered		50 00 @ 65 00	25 00 @ 28 00	57 50 @ 65 00
Pine, clear	65 00 @ 70 00	50 00 @ 75 00	33 00 @ 50 00	@ 65 00
Redwood	60 00 @ 70 00	50 00 @ 70 00	40 00 @ 45 00	60 00 @ 75 00
Rosewood	@ 6		per M. 600 00	
Spruce floorclear, (kiln-dried)		32 00 @ 35 00		
Walnut, black	125 00 @ 150 00	85 00 @ 120 00	40 00 @ 75 00	50 00 @ 170 00
Whiteoak	45 00 @ 50 00	35 00 @ 45 00	14 00 @ 30 00	25 00 @ 40 00
Yellow pine	@ 45 00	40 00 @ 42 00	31 00 @ 34 00	@ 42 00

CLINTON WIRE-CLOTH CO.,

Sole Proprietors and Manufacturers of

**WIRE
LATH****DOUBLE TWIST WARP
STIFFENED (Iron furred)
CLINTON CORRUGAT'D**

Plain, Japanned or Galvanized.

The Most Perfect and Economic System of FIREPROOF Construction.

SEND FOR CIRCULAR.

BOSTON, NEW YORK, CHICAGO, FACTORY,
199 Washington St. 76 Beekman St. 137 Lake St. CLINTON, MASS.**WORTHINGTON STEAM PUMPS**

ARE THE STANDARD FOR

HYDRAULIC ELEVATOR AND HOUSE SERVICE.

Send for New Illustrated Catalogue.

Henry R. Worthington,NEW YORK, 86 & 88 Liberty St.
BOSTON, 70 Kilby St.
PHILADELPHIA, 607 Arch St.
CLEVELAND, 24 South Water St.
CHICAGO, 185 to 189 Van Buren St.
ST. LOUIS, Eighth & St. Charles Sts.**Welded Chrome Steel and Iron. (5 ply)**

We are the only manufacturers of Chrome Steel in the United States.

None genuine unless stamped with our Trade Mark.

FOR SAFES AND VAULTS

Positively Burglar-proof, cannot be Cut, Sawed, or Drilled,

CHROME STEEL WORKS, Brooklyn, N. Y.**BUILDING MATERIALS.****BRICK.—P. M.**

Common: Cargo afloat.

Paid.....

Jersey.....

Long Island.....

Up River.....

Haverstraw Bay 2d.....

" 1st.....

Hollow.....

Fronts:

Croton, Brown.....

" dark.....

" red.....

Chicago pressed (Anderson).....

" Moulded.....

Baltimore.....

Philadelphia.....

Trenton.....

Milwaukee.....

Moulded:

Glens Falls Red Pressed.....

" " Buff.....

" " Moulded Red & Buff.....

Enamelled: Imp.....

Enamelled (edge).....

Enamelled (edge and end).....

CEMENT, LIME, etc.—(P. cash.)

Rosendale Cement.....

Louisville.....

Utica, Akron, Buffalo, Milwaukee, Portland, English (Gibbs).....

" (K. B. & S.).....

" " Black Cross.....

" " (Burnham).....

" " (White's).....

" " French (Lafarge).....

" " German (Alsen).....

" " (Feyer).....

" " (Vorwöhrer).....

" " (Lagerdorff).....

" " (Dyckerhoff).....

" " (Hanover).....

" " Stettin (Anchor).....

" " American (Saylor's).....

Roman.....

Keene's coarse.....

" superfine.....

Lime:

Lime of Tell.....

Hydraulic Lime.....

Chicago Lime in bulk.....

Wisconsin Lime.....

Rockland and Rockport, (Com.).....

Rockland and Rockport, (Finch).....

Kelley Island Lime, finish.....

State, com. cargo rates (nom.).....

State, finishing.....

Plaster of Paris (alcined).....

" (casting).....

Hair (Cattle) ½ bush.....

" (Goat).....

Sand, ½ load.....

STONE. (P. cubic foot, rough.)

Granite: (Maine)

Limestone:

Bedford.....

Joliet.....

Leamont.....

Serpentine.....

New York.

(Wholesale

Prices.)

Prices)

to Builders and

Contractors.)

In Yard.

Building Brick

" 5 50

Indiana Pressed

14 00 @ 20 00

St. Louis Fronts

27 00

Enamelled B'k.

Imported.

Enam. (edge)

95 00 @ 105 00

" (edge & end)

45 00 @ 50 00

" Domestic.

60 00 @ 100 00

Enam. (edge)

30 00

" (edge & end)

110 00 @ 115 00

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

Boston.

(Wholesale

Prices.)

Prices)

to Builders and

Contractors.)

In Yard.

Building Brick

" 5 50

Indiana Pressed

14 00 @ 20 00

St. Louis Fronts

27 00

Enamelled B'k.

Imported.

Enam. (edge)

95 00 @ 105 00

" (edge & end)

45 00 @ 50 00

" Domestic.

60 00 @ 100 00

Enam. (edge)

30 00

" (edge & end)

110 00 @ 115 00

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

Chicago.

(Wholesale

Prices.)

Prices)

to Builders and

Contractors.)

In Yard.

Building Brick

" 5 50

Indiana Pressed

14 00 @ 20 00

St. Louis Fronts

27 00

Enamelled B'k.

Imported.

Enam. (edge)

95 00 @ 105 00

" (edge & end)

45 00 @ 50 00

" Domestic.

60 00 @ 100 00

Enam. (edge)

30 00

" (edge & end)

110 00 @ 115 00

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

Philadelphia.

(Wholesale

Prices.)

Prices)

to Builders and

Contractors.)

In Yard.

Building Brick

" 5 50

Indiana Pressed

14 00 @ 20 00

St. Louis Fronts

27 00

Enamelled B'k.

Imported.

Enam. (edge)

95 00 @ 105 00

" (edge & end)

45 00 @ 50 00

" Domestic.

60 00 @ 100 00

Enam. (edge)

30 00

" (edge & end)

110 00 @ 115 00

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

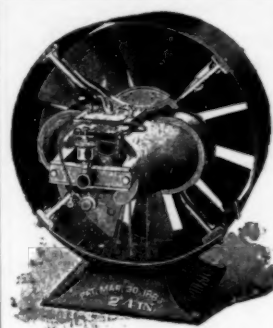
" " "

" " "

" " "

" " "

" " "

KEEP COOL
BY USING
THE SMITH
VENTILATING
FAN.KEEP WARM
BY USING
THE SMITH
HOT BLAST
APPARATUS.

Both Manufactured by

THE HUYETT & SMITH MFG. COMPANY,

Heating and Ventilating Engineers,

DYCKERHOFF PORTLAND CEMENT

Is superior to any other Portland Cement made. It is very finely ground, always uniform and reliable, and of such extraordinary strength that it will permit the addition of 25 per cent more sand, etc., than other well-known brands, and produce the most durable work. It is therefore the most economical to use. The foundations (and in some cases the brick walls) of nearly all the large Insurance, Bank, Office and Newspaper buildings, Hotels, Monuments, etc., erected in New York and other cities during the last ten years have been constructed of the DYCKERHOFF CEMENT. Architects and those interested in Portland Cement will please send for my pamphlet. It contains valuable directions for the employment of Portland Cement, a table of results of the strength of the Dyckerhoff Cement when mixed with sand and broken stone in various proportions, together with tests and testimonials.

E. THIELE, 78 William St., New York.
SOLE AGENT FOR THE UNITED STATES.

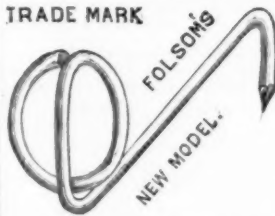
Brooks, Shoolbridge & Co.

7 BOWLING GREEN,
NEW YORK.

ENGLISH PORTLAND CEMENT

FOLSOM'S PATENT SNOW GUARDS

TRADE MARK

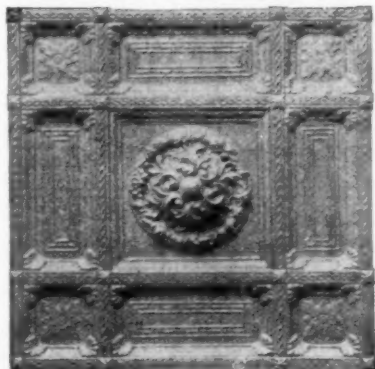


For Old
and
New Roofs

Correspondence
solicited.

FOLSOM SNOW GUARD COMPANY,
33 Lincoln St. - - - BOSTON.

SECTIONAL PANEL STEEL CEILINGS.



ELEGANCE

The Superior Merits of our Steel Ceilings and Side Wall Plates are

DUST PROOF JOINTS

Mouldings varying in depth from 1 1/2 inch to 2 1/4 inches.

VARIETY INDEFINITE.

Sagendorph's Patent Sectional Steel Products Excel and Exceed all others combined. Ceilings and Side Walls Perfection Intact.

SOLE MANUFACTURERS,
THE PENN IRON ROOFING AND CORRUGATING CO
(LIMITED),
PHILADELPHIA, PA.

BINDING.

The Regular Binding of the *American Architect* is a Cloth binding, which varies in color for the several editions, as follows:

For the Regular Edition - - Maroon.
" " Imperial Edition - - Crimson.
" " International Edition Blue.

The Regular Edition is bound as a Single Volume. The Imperial Edition is bound in Semi-Annual Volumes.

The International Edition is bound in Quarterly Volumes. The Price for binding is \$2.00 per volume, whether Annual, Semi-Annual or Quarterly. Any variation from our standard practice will entail an increased charge.

In every case the Plates are bound all together at the back of the volume to which they belong — the Double Plates being mounted upon guards.

Volumes sent to us for binding will be treated according to this system, unless instructions of a different nature are given at the time the work is placed in our hands.

American Architect & Building News Co.
211 Tremont St., Boston, Mass.

GOOD MORNING, ARCHITECTS!

PARTICULARS ABOUT CHURCH LIGHTING READY TO SERVE YOU.

WRITE THIS ON A POSTAL.

I. P. FRINK,
551 Pearl St., New York City.

It's our Business to furnish architects with labor-saving lighting information.

DEAR SIR: — Kindly send me your literature and information regarding the lighting of churches and public buildings.

Name _____

Address _____

We're the largest church lighters in the world.

McCULLY GLASS CO.
Manufacturers of
Stained & Beveled Glass,
MEMORIAL WINDOWS.
Special Designs Furnished upon Application.
346 and 348 Wabash Avenue,
CHICAGO, ILL.

S. J. PARKHILL & CO.
PRINTERS

226 Franklin St., Boston, Mass.

BOOK AND MISCELLANEOUS PRINTING
ILLUSTRATED TRADE CATALOGUES
TOWN HISTORIES AND GENEALOGIES

Electrotyping and Stereotyping
Mercantile and Commercial Printing

With all the most approved modern machinery and material in each department, the excellence of the work at fair prices is assured.

Works on Architecture a Specialty

Information regarding work in any department will at all times be cheerfully and promptly furnished, either personally or by correspondence.

**CHARLES I DEMANDING THE
FIVE IMPEACHED MEMBERS.**

From the painting by

JOHN SINGLETON COPLEY, R. A.,
IN THE BOSTON PUBLIC LIBRARY.

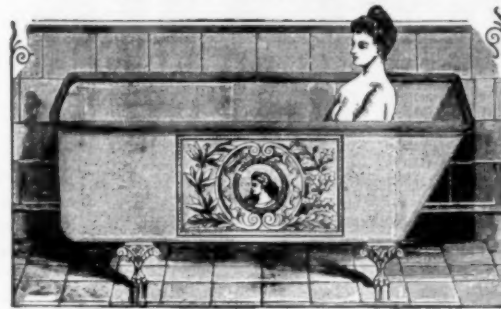
A few copies of the excellent heliotype made of this fine historical picture, 11 x 16 inches, printed on heavy plate paper, 22 x 28 inches, with key to the portraits, are for sale.

Price . . . \$3.00 each.

Sent carefully wrapped and postpaid, on receipt of price.

WALTER ROWLANDS,
211 Tremont Street, BOSTON.

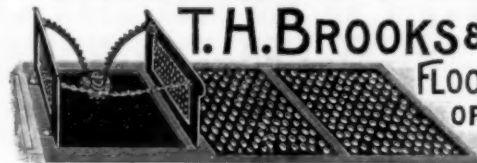
THE BISCHOFF SHEET STEEL BATH-TUB.
ENAMELLED.



SEND FOR OUR
ILLUSTRATED CATALOGUE
AND PRICES.

THE CHEAPEST AND
BEST SANITARY BATH
ON THE MARKET.

FRED. F. BISCHOFF & CO., 24-26 West Lake St., CHICAGO.

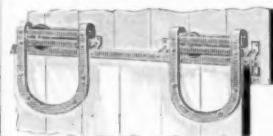


T. H. BROOKS & CO. CLEVELAND, O.
FLOOR & SIDEWALK LIGHTS.
OF EVERY DESCRIPTION.
SEND FOR CATALOGUE.

LUDLOW SAYLOR WIRE CO. No. 114 & 116 So. Fourth St. ST. LOUIS, MO.

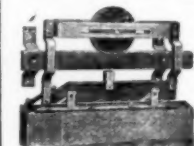


Elevator Enclosures and Cabs,
Metal Work in Brass,
Wire and Wrought-Iron,
Office and Bank Railings,
Wire and Iron Fences, etc.



LANE'S Patent Steel Barn Door Hanger.

ANTI-FRICTION. MOST COMPLETE IN CONSTRUCTION.
MATERIAL THE BEST. NO BREAKAGE.
Ease of Movement. Always in Order.



LANE'S Patent Noiseless Steel Parlor Door Hanger.

Hanger is made of steel throughout, including wheel, except solid interior leather tread, causing to roll noiselessly.
Single steel track instead of double wood rail.

Ask your Hardware dealer, and send for Circular.

Manufactured by **LANE BROTHERS, Poughkeepsie, N. Y.**

ALPHABETICAL LIST OF ADVERTISERS.

The (E) indicates that the advertisement may be found in the last or the following issue: the (M) that it may be found in the first issue for each month.

A.	E.	L.	R.
Abel, C. C. & Co. 211	Elektron Mfg. Co. 1	Lamb & Ritchie 11	Harding & Clowes 2
Adee & Co., Fred. 21	F.	Lawrence Cement Co. (Cov.) 4	Harlan Hollow & Pious Brick Co. 11
Aeschmann & Pellarin. 11	Falt & Co., J. P. 11	Lord & Burnham Co. 11	S.
Allen's Cement Works. 4	Farquhar's Sons, John. (Cov.) 3	Ludlow Saylor Wire Co. 11	Sanson Cordage Works. 2
American Boiler Co. 11	Farrand & Votey Organ Co. (Cov.) 3		Sheppard & Co., Isaac A. 11
American Fireproofing Co. (Salamander). 11	Fisher & Co., Robert C. 11		Smith & Anthony Store Co. (Cov.) 2
American Mineral Wool Co. 11	Fiske, Holmes & Co. 11		Smith & Egge Mfg. Co. 11
Apollo Iron & Steel Co. (Cov.) 2	Fitzgerald, J. Leland. 11		Smith Co., H. B. 11
Armstrong & Co., Maitland. 1	Fleming Cement & Brick Co. 11		Spaulding & Moss. 11
B.	Flynt Building & Construction Co. 11		Standard Elevator Co. 11
Babcock & Wilcox. 11	French & Co., Samuel H. 11		Stebbins Mfg. Co. 11
Bally & Truitt. 11	Frink, J. P. 11		Stewart Ceramic Co. 11
Baltimore Roofing Tile Co. 11	Frost & Adams. 11		T.
Barclay, J. (Cov.) 3	G.		Taylor Co., N. & G. 11
Batterton, See & Eisele. 11	Globe Ventilator Co. 11		Taylor, J. W. 11
Bell, George H. & Co. 11	Goetz Box Anchor Co. 11		Tiele, E. 11
Belmont Iron Works. 11	Gorton & Lidgerwood Co. 11		Thorn, J. S. Co. 11
Berger Bros. 11	Graves Elevator Co. 11		Thorn Shingle & Ornament Co. 11
Berger Mfg. Co. (Cov.) 2	Gurnsey Heater Mfg. Co. 11		Thorn Glass & Decorating Co. 11
Buckhoff & Co., Fred F. 11	H.		Thorn Pressed Brick Co. 11
Blake Bell Co. 11	Haberstroh & Son, L. 11		Ticknor & Co. 11
Brand, James. 11	Haines, Jones & Cadbury Co. 11		Troy Laundry Machinery Co. (Cov.) 4
Bridgeport Wood Finishing Co. 11	Harian & Hollingsworth Co. 11		U.
Brixey, W. R. 11	Hayes, Geo. 11		U. S. Tubular Bell Co. 11
Brooks, Shoebridge & Co. 11	Hedotype Printing Co. 11		V.
Brooks, T. H. & Co. 11	Hill, George. 11		Valle & Young. (Cov.) 2
Brownville Maine Slate Co. 11	Hind, Thomas J. 11		W.
Buckeye Portland Cement Co. 11	Hitchings & Co. 11		Waldo Bros. 11
Burditt & Williams. 11	Holmes, F. S. 11		Warren Chemical & Mfg. Co. 11
C.	Howson & Howson. 11		Whittier Machine Co. 11
Cabaret, Paul E. 11	Huyett & Smith Mfg. Co. 11		Wicks Refrigerator Co. 11
Cabot, S. 11	Hydraulic Press Brick Co. 11		Wilks Mfg. Co., S. 11
Central Expanded Metal Co. 11	I.		Williams, John. 11
Chicago Interior Decorating Co. 11	Indianapolis Terra-Cotta Co. 11		Wilson, Jas. G. 11
Chrome Steel Works. 11	J.		Worthington, Henry R. 11
Cincinnati Corrugating Co. 11	Jackson Architectural Iron Works. 11		Y.
Clark, Bunnett & Co. (Cov.) 4	Jackson & Co., Wm. H. 11		Yale & Towne Mfg. Co. 11
Clark, G. S. 11	Jarden Brick Co. 11		
Clinton Wire Cloth Co. 11	Jenkins Bros. 11		
Comstock, Wm. T. 11	Johns Mfg. Co., H. W. 11		
Continental Insurance Co. (Cov.) 4	Johnson & Wilson. 11		
Correspondence School of Industrial Sciences. 11	Johnson, T. W. (Cov.) 4		
Cortright Metal Roofing Co. 11	K.		
Cudell, F. E. 11	Kait, C. P. 11		
Cutler Mfg. Co. 11	Kearney, R. A. (Cov.) 3		
D.	Kearney & Mattison Co. 11		
Dauchy Iron Works. 11	Kenway, Percy N. 11		
Deane, E. Eldon. 11	Kidder, F. E. 11		
Devos & Co., F. W. (Cov.) 4	Kilbourne & Jacobs Mfg. Co. 11		
Dexter Bros. 11			
Dixon Crucible Co., Jos. 11			
Duggan, T. H. 11			

CABOT'S

CREOSOTE

SHINGLE

STAINS



Loring & Phipps Arch'ts Boston

Don't specify paint for shingles; it isn't artistic. Don't specify a Stain that will turn black in a few years, because it looks dirty and you have to paint it over to change the color. Specify a stain that will hold its color and grow old gracefully—like Cabot's, which was the first shingle stain ever made, and is now, as always, first in durability, first in economy, and first in favor with those who have used it. *Every gallon guaranteed.*

SUMMER COTTAGE
THORNDIKE ISLAND
By J.P. FANCHER 1892

Large or small wood samples, circulars and water-color reproductions of color schemes, sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

Agents at all Central Points. **70 Kilby St., BOSTON, MASS.**



Booksellers' Casino, Leipzig.



Casino, San Sebastian, Spain.



The Portland Society of Arts Building, Portland, Me.

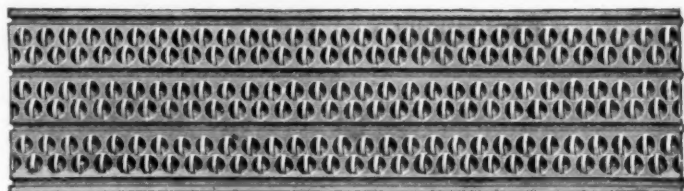


Liberal Club, Leeds, Eng.

CLUB-HOUSES.



"Piqua" Steel Lath.



"Piqua" Lath is made from the best quality of steel, in sheets $27\frac{1}{4} \times 48$ inches, and each sheet covers exactly one square yard of surface. The corrugations shown in cut are $3\frac{1}{4}$ inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.

MERCHANT & CO., Incorporated,

Sole Manufacturers of the

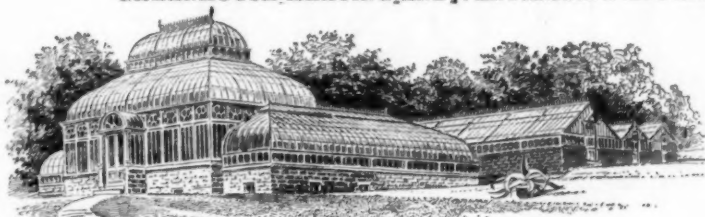


STAR VENTILATOR

MADE OF GALVANIZED OR LEAD-COATED SHEET-IRON, COPPER OR BRASS.

HITCHINGS & CO., Established 50 years.

HORTICULTURAL ARCHITECTS AND BUILDERS
and largest Manufacturers of
GREENHOUSE HEATING AND VENTILATING APPARATUS.



Conservatories, Greenhouses, Palm Houses, etc., erected complete with our patent Iron Frame Construction. Plans and Estimates of cost and illustrated catalogues sent on application.

233 MERCER STREET, N. Y.

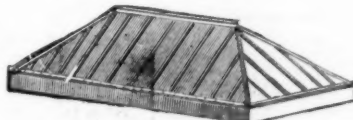
James A. Miller & Bro.

Slate
Tin
Tile and Iron

Roofers . . .

Galvanized Iron and Copper

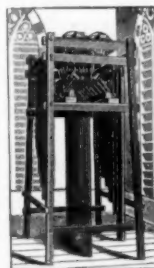
Cornices, Bays
Skylights, etc.



Special Attention . . .
to Large First-class Work
Fully Guaranteed.

Our facilities, resources and experience are such that we feel able to compete for large work in our line, almost anywhere in the United States, and will be particularly pleased to do so now when there is so little work going on in this city.

129-131 South Clinton Street,
Chicago.



TUBULAR CHIME BELLS

Harrington Patents.

Established in England.
Introduced here:

Lighter in Weight }
Sweeter in Tone }
Cheaper in Price }
Than the ordinary bell
Catalogue with full description.

U. S. Tubular Bell Co.,
Methuen, Mass.

MARKS' ARTIFICIAL LIMBS.

WITH RUBBER HANDS AND FEET.
The most comfortable, durable and natural.



Although a man may lose both of his legs he is not necessarily helpless. By having artificial legs applied, with rubber feet attached, he can be restored to his usefulness.

The engraving is from an instantaneous photograph of a man ascending a ladder; he has two artificial legs substituting his natural ones, which were crushed by a railroad accident and amputated. With his rubber feet he can ascend or descend a ladder, balance himself on the rungs, and have his hands at liberty. He can work at a bench and earn a good days wages. He can walk and mingle with persons without betraying his loss; in fact, he is restored to his former self for all practical purposes.

With the old method of complicated ankle-joints these results could not be so thoroughly attained.

Fifteen thousand in use, scattered in all parts of the world. Many of these have been supplied without pre-paying themselves to the maker, simply by sending measurements on a formula which any one can easily fill out.

RECEIVED THE HIGHEST AWARD AT
WORLD'S COLUMBIAN EXPOSITION.
Indorsed and purchased by the U. S. Government.
A treatise of 430 pages and formula for measuring SENT FREE.

A. A. MARKS,
701 Broadway, NEW YORK CITY.
[Established 41 Years.]

SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.**Slate, Copper, Tin and Gravel Roofing.****Nos. 20 and 22 EAST STREET, BOSTON.**Order Box at Master Builders Association,
104 Devonshire Street.Special attention given to Repairs
of all kinds.

Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs, acknowledged to be the strongest method in use, and has been applied to many of the best constructed and largest buildings in this country.

*Contracts made for Work wherever desired.***ASPHALT ROOFING AND PAVING MATERIALS.**

WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.

Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO.

81 & 83 Fulton Street, NEW YORK, U.S.A.



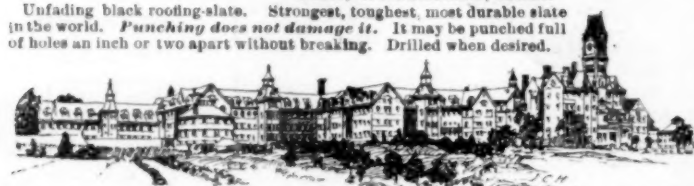
THE JENKINS AUTOMATIC AIR VALVE has proved to be all we claimed for it, i. e., a Positive and Reliable Air Valve. The expandable plug is a special compound, and MANUFACTURED EXPRESSLY for use in the JENKINS AUTOMATIC AIR VALVE. It does not deteriorate or lose its flexibility under the action of heat or steam. With the Jenkins Automatic Air Valve, you should connect with a drip pipe, thus insuring a positive circulation. We guarantee them to be as represented. Our trade-mark is on every Valve.

JENKINS BROS., New York, Boston, Chicago, Philadelphia.**JACKSON VENTILATING GRATES**

each heat two or more rooms, and they will heat an entire residence with two-thirds the fuel of a furnace.

*Send for Catalogue B.***EDWIN A. JACKSON & BRO.,** 50 Beekman Street, New York.**YALE LOCKS****BROWNVILLE MAINE SLATE COMPANY.**

Office, WORCESTER, MASS.

Unfading black roofing-slate. Strongest, toughest, most durable slate in the world. *Punching does not damage it.* It may be punched full of holes an inch or two apart without breaking. Drilled when desired.Toughest
Slate,
Fewest
Leakages.
Oldest
quarry
in Maine.

STATE LUNATIC ASYLUM, WORCESTER, cov

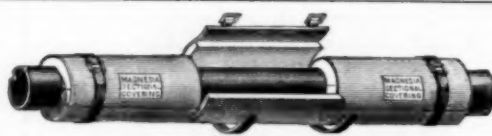
ur Slate.

BLACKCROSS PORTLAND CEMENT

IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,IMPORTERS **ROMAN, KEENE'S, VICAT CEMENTS,** 23 Liberty Street, NEW YORK.
ENGLISH GLAZED BRICKS.

Absolutely



Fire-Proof.

**MAGNESIA**

SECTIONAL

STEAM PIPE AND BOILER COVERINGS.

THE GREAT COAL-SAVER.

SELLING AGENTS:

S. C. Nightingale & Childs, Boston, 134 Pearl St.
Robert A. Keasbey, New York, 54 Warren St.
Macan & Co., Philadelphia, 1420 Callowhill St.
Wallace & Bro., Baltimore, 432 E. Pratt St.
Wm. B. Morgan, Washington, Builders' Ex'c.
Delbert Engineering Co., New Orleans, 23 Union St.
Symmes & Co., Memphis, 102 Front St.

MANUFACTURED BY

THE KEASBEY & MATTISON CO.,CINCINNATI: AMBLER, CLEVELAND:
114 West Second St. PA. 117 Water St.

SELLING AGENTS:

F. Sprinkman, Milwaukee, 133 Sycamore St.
W. W. Hite & Co., Louisville, 176 Fourth St.
P. Boeler, St. Louis, 104 Walnut St.
S. P. Conkling, Detroit, 29 Atwater St., East.
C. W. Badgley & Co., Denver, 18th & Market Sts.
Utah & Montana Machinery Co., Salt Lake City.
R. W. James, Butte City, Mont.
DeSolla & Deussing, S. Francisco, 2 California St.**ASPHALT FLOORS, ROOFS, SIDEWALKS AND CARRIAGE-WAYS**

Of Public Buildings, Hospitals, Warehouses, Stables, Cellars, etc.

Laid with **VAL de TRAVERS ROCK ASPHALT,**

DURABLE, FIREPROOF AND IMPERVIOUS.

For estimates and list of works executed, apply to

THE NEUCHÂTEL ASPHALT CO., Limited,

265 BROADWAY. - - - NEW YORK.

Brown's Patent Seamless DRAWN COPPER HOUSE BOILERS.

Cannot collapse.

Will not leak.

Ordinary boiler tested to 200 lbs.

Extra heavy tested to 300 lbs.

Made of two seamless drawn copper shells.

Handsome, best and strongest

in the market.

Send for circular giving instructions

for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES,

Waterbury, Conn.

Western Depot: 71 West Washington St., Chicago. Branch Offices: 104 John St., New York; Room 320 Philadelphia Bank Building, Philadelphia; 99 Milk St., Boston; Room 208, Neave Building, Cincinnati.

Proprietors of the Brown & Bros. Tubing and Boiler Works, and the Brown & Bros. Brass and Copper Rolling Mills.

Manufacturers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

Chicago Interior Decorating Co.*Bank, Office & Club Equipments.***Mantels. Tiles. Ceramic Mosaics****FINE SPECIAL FURNITURE.**

Highest grade of first class goods.

Drawings and Estimates furnished upon application.

149 & 150 Michigan Ave., Chicago, Ill.

Formerly occupied by the **Henry Dibblee Co.****BLAKE BELL CO.**

Successors to Wm. Blake & Co.

Bell Founders and Brass Finishers.

Castings in any metal except iron.

Monumental Tablets, Artistic Brass Work.

Allen and Brighton Sts., BOSTON.

J-W-TAYLOR'S PHOTOGRAPH SERIES.

151 MONROE ST. CHICAGO. OF AMERICAN ARCHITECTURE.

Removed to Owings Building.

Send two 5 cent stamps for Catalogue.

PARQUET FLOORS.**The National Wood Manufacturing Co.,**

129 6th Avenue, New York.

WAINSCOTINGS and CEILINGS.

Inlaid Wood Floors 5-16 and

7-8 inch thick.

Solid work, Toughest and Grooved in each piece.

Designs & Estimates on application. Established 1867.



POINTS ON VARNISH.

NO. 265.—ISN'T IT PECULIAR?

What?—that wise men combine to support a system of business which they like? No: nothing peculiar about that. The peculiar thing is that wise men combine to support a system of business which they dislike.

All reputable architects and all reputable painters thoroughly dislike the old slipshod method of farming out the finishing contract without specification. They are perfectly aware that it degrades the standard of work; that it hurts their own reputations; that it creates suspicion of their own knowledge; that it encourages dishonesty; that it cheats the owner; that it fosters the use of adulterated and half-made varnish; that it puts the best goods at a disadvantage; and yet, the wretched system is supported.

It is not merely a slackness of system: it is a system of slackness. It is devotion to confessed wrong. It is a tradition, a habit, for which nobody feels responsible, but which somebody must reform. It will be one step toward reform, simply to face and candidly acknowledge this peculiar state of affairs.

MURPHY VARNISH CO.

FRANKLIN MURPHY, President.

Head Office: Newark, N. J.

Other Offices: Boston, Cleveland, St. Louis, Chicago.

Factories: Newark and Chicago.

TO ARCHITECTS:

If you desire to recommend a firm as one thoroughly capable of supplying complete furnishings for a hotel, club-house or private residence, you can mention us with confidence.

We supply CARPETS, RUGS, UPHOLSTERY FABRICS, FURNITURE, ETC., ETC.

Our goods are right; our prices are right.

We make a specialty of private and exclusive patterns which cannot be duplicated elsewhere.

John H. Pray, Sons & Co.,

658 Washington Street,

Opposite Boylston Street,

BOSTON.

F. W. DEVOE & CO.

(Established 1852.)

Fulton St., cor. William, New York.

No. 176 Randolph St., Chicago.

Pure Ready-mixed Paints.

We desire to call attention of consumers to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fireproof." We use no secret or patent method in manufacturing them by which benzine and water are made to serve the purpose of pure linseed oil.

Sample cards, containing fifty desirable shades sent on application.

FINE VARNISHES.

Hard Oil-Finish & Wood-Stains.

Illustrated Catalogue of Engineers' and Architects' Supplies, 250 pages, 700 Illustrations, on request.

White-Lead Colors in Oil and Japan.

THE DECORATIVE GLASS

In Abbey's Theatre, N. Y., and Keith's Opera House, Boston, are examples of Renaissance and Rococo designs, the movement, carried out entirely in our hard metal settings.

METALLIC SETTING CO.,

137 Weybosset St., PROVIDENCE, 5 Park Sq., BOSTON.

H.W. Johns Asbestos Roofing FIRE PROOF. DURABLE. LIGHT. ECONOMICAL.

This Roofing may be easily applied by unskilled Workmen. It is more durable than tin and costs about one half as much. It has been in use for thirty five years by many well known manufacturers and large corporations throughout the United States.

SAMPLES, PRICES & FURNISHED ON APPLICATION

H.W. JOHNS MFG CO. NEW YORK · JERSEY CITY · CHICAGO · PHILADELPHIA · BOSTON

STAMPED STEEL CEILINGS MANY DESIGNS

H.S. NORTHROP Manufacturer, 30 ROSE ST. NEW YORK

Awarded the Grand Prize at the late Paris Exposition.

BABCOCK & WILCOX BOILERS

THE BABCOCK & WILCOX CO.

29 CORTLANDT ST. NEW YORK.

SEND FOR BOOK ON STEAM.

NEW ORLEANS, LA. 57 CARondelet ST. · SAN FRANCISCO, CAL. · SAN FRANCISCO TOOL CO. · HAWAII, HONOLULU, CALLE DE LA HABANA

The American Architect and Building News

IS PUBLISHED EVERY SATURDAY BY

The American Architect and Building News Co.,

211 TREMONT ST., BOSTON, MASS.

Advance Subscription Rates.

Regular Edition, \$6.00 per year; six months, \$3.50.
Imperial Edition, \$10.00 per year; six months, \$6.00.
International Edition, per year in advance, \$25.00.
" " quarterly " 26.00.

[Foreign Postage extra].

Payment should be made to American Architect and Building News Co., direct, either by draft or post-office order.

Address all business correspondence to the publishers direct.

Advertising Agents.

Boston, Philadelphia and Baltimore:—
I. Henry Paige, 211 Tremont St., Boston.

New York City:—
H. M. Carleton, 21 Park Row.

Agent at Large:—
F. F. Spokesfield, 211 Tremont St., Boston, Mass.

Western Agents:—
A. B. Titcomb, R. L. North, Jr., 167 Dearborn St., Chicago, Ill.

Advertising rates: For "wants" and "proposals," 15 cents per line (8 words to the line), each insertion. 50 cents the least charge. Other rates on application.

New Advertisements.

CORRESPONDENCE SCHOOL OF INDUSTRIAL SCIENCE (Scranton, Pa.), School. Page xlii.
GLOBE VENTILATOR CO. (Troy, N. Y.), Ventilators. Page xviii.
F. O. NORTON CEMENT CO. (New York, N. Y.), Hydraulic Cement. Page i.
KEASBEY & MATTISON CO. (Ambler, Pa.), Steam-pipe Covering. Page x.
J. L. MOTT IRON WORKS (New York, N. Y.), Sanitary Ironwork. Page xvii.
MERCHANT & CO. (Philadelphia, Pa.), Ventilators. Page ix.

PERSPECTIVE DRAWING.

The American Architect Drawing-Office will undertake the preparation of perspective drawings in line or color from scale drawings, or will render drawings already in outline. Address the editors.

WANTED.

POSITION.—Draughtsman of six years' western and eastern experience wishes a position in an eastern or western office. Good detailer and sketcher. Rapid worker. Has A1 references. Address "G. E.," care R. Passmore, 76 West 55th St., New York City. 971

WANTED.

POSITION.—By architectural draughtsman of fair ability, a permanent position with prospect of working into partnership. Address "H. H.," 802 Hemlock, Helena, Mont. 972

WANTED.

POSITION.—Designer in color decoration desires position with important firm of decorators or glass-stainers. Address "H. T.," care H. M. Carleton, 21 Park Row, New York. 971

WANTED.

SUPERINTENDENT.—One of the largest contracting firms in the country desire the services of a capable superintendent, one who has the qualifications to take charge of heavy structural work such as office-buildings, railroad depots and grain-elevators. The party must be an expert on taking off items, conversant with all details of draughting, and have the necessary qualifications for handling men and material. To the proper party having the above qualifications a liberal salary will be paid. Address "W. A. C.," care of American Architect. 972

WANTED.

DRAUGHTSMEN.—Wanted draughtsmen used to originating designs for ecclesiastical metal work. Also men to model small figure and ornamental work. Those who work at home. Address "A. B.," 500, care of American Architect. 971

FOR SALE.

FOR SALE.—American Architect, Regular Edition, from 1886 to 1892, inclusive. Address offers to "R. R.," care of American Architect. t.f.

TO ARCHITECTS.

HIGH-CLASS PERSPECTIVES in water-colors, sepia or ink, lined and rendered, or rendered only. Address "Artist," 285 West One Hundred and Twenty-ninth St., New York. t.f.

ARCHITECTS' REMOVALS, Etc.

H. K. McGOODWIN, architect, Bowling Green, Ky., would be pleased to receive catalogues and samples. 972

CHAS. P. KRIEG, has opened an office at Room 12, Morris Building, Pottsville, Pa., and would be pleased to receive catalogues and samples. 972

LOP HANSON, architect, Faribault, Minn., would be pleased to receive catalogues and samples. 971

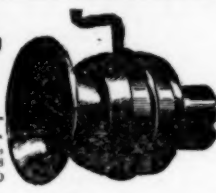


W. R. OSTRANDER & CO.,

204 Fulton Street, New York.

Manufacturers of

Speaking-Tubes, Whistles, Oral, Electric, Mechanical and Pneumatic Annunciators & Bells, Complete outfits of Speaking-Tubes, Whistles, Electric, Mechanical, and Pneumatic Bells. A full line always in stock. Send for New Catalogue. Factory, De Kalb Ave. near Knickerbocker, Brooklyn, N. Y.



GEO. HILL, CONSULTING ENGINEER, BUILDINGS.

44 Broadway, N. Y. CITY.

F. E. KIDDER, C. E., CONSULTING ARCHITECT.

1362 California St., DENVER, COLO.

Calculations for trusses and all forms of building construction.

TO ARCHITECTS.

F. S. HOLMES,

MECHANICAL AND VAULT ENGINEER,

1101 BETZ BUILDING, PHILADELPHIA.

Plans, Specifications and Superintendence of Vault and Safe Construction. Architects and Engineers of the highest repute as references.

MONEY TO LOAN

In sums to suit, from \$5.00 to \$1,000, for 5 years, at 6 per cent. interest. No payments of any kind required until application for a loan has been granted. SECURITY REQUIRED. Real estate, houses, stores, stocks, bonds, jewelry, household goods, furniture, merchandise, horses, cattle, livestock, farming implements, and machinery of all kinds, or any other property, real or personal, of value; or a note, endorsed by persons worth amount of money borrowed, will be accepted as security. Don't hesitate to write and ask for a Loan. Address, MUTUAL SAVINGS AND LOAN CO., Tenth and Walnut Streets, Philadelphia, Pa.

E. ELTON DEANE,

Architectural Colorist and Draughtsman.

54 BIBLE HOUSE, NEW YORK CITY.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

ADVANCE RUMORS.

Aldan, Pa.—A residence will be built for Peter Lowden.

Ambler, Pa.—Plans for the new county house for Councilman Thomas Roscoe are in the hands of the builders.

Bayfield, Wis.—A \$25,000 public school building is proposed.

Bedminster Township, Pa.—One of the finest churches in this end of the county will be built by John N. Weidemeyer of Quakertown, who has the contract; it will be known as Keller's Church; about \$8,150.

Burre Station, Mont.—The Fire Commissioners have recommended the building of a new fire-station on Quartz St.; cost not to exceed \$5,000.

Chester, Pa.—Edgmont Ave., cor. 8th St., a fine business building will be built for Robert Howarth's Sons.

Detroit, Mich.—The Board of Education has voted to advertise for proposals for building the proposed Central High School.

Eldora, Iowa.—Bonds to the amount of \$12,000 have been voted for a high school building.

Marshfield, Wis.—The rebuilding of the burned opera-house is under consideration.

Norristown, Pa.—St. John's Protestant Episcopal congregation will build a chapel on Sandy Hill for the East End Mission.

Perkasie, Pa.—A dwell will be built for Henry F. Groff.

David Hedrick, of Chalfont, will have a dwell. built.

Pottstown, Pa.—West High St.; Calvin Fegely is improving and enlarging his dwell.

South Orange, N. J.—The Village Trustees will build a new town-hall to cost about \$11,000.

St. Paul, Minn.—The Secretary of the State Board of Charities has recommended the building of a fourth insane asylum, to be located between or near to Minneapolis and St. Paul.

Summit, N. J.—New brick wing to school; about \$23,000.

Swarthmore, Pa.—Ground has been broken to the left of the Science Hall, at Swarthmore College, for a new stone building to be devoted to apparatus and lecture rooms for an electrical department; about \$12,000.

West Chester Pike Station, Pa.—Six single and 2 double dwells. will be built on the Albertson property; own, Edward Worth, Wawa, Pa.

Wilmington, Del.—The Chemical Fire Co. has bought a lot on High St., and will probably build a fire-house on same.

ALTERATIONS AND ADDITIONS.

Boston, Mass.—Park St., cor. Tremont St., Ward 10, the lower story of the church to be arranged for stores; \$35,000; own, Park St. Cong. Society; arch., Willard M. Bacon; contracts are let.

BLUE PRINTS

Best Heavy French Paper
5 cents per square ft.

Spaulding & Moss,
63 State St., Boston, Mass.

Architectural Instruction.

812 LINCOLN BUILDING, UNION SQ., NEW YORK.

Home Study in Architecture. For Particulars address O. POWELL KARR, Architect. Send ten cents for illustrated pamphlet. t.f.

C. G. VAN TUBERGEN, JR., HAARLEM, HOLLAND

Choice Dutch Bulbs and Attractive Bulbous Plants.

Catalogues free.

C. G. ABEL & CO., SOLE AGENTS,—Box 920, NEW YORK.

WILLIAM L. BAILY ARTHUR TRUSCOTT.

BAILY & TRUSCOTT, Architects,
138 South Fourth Street - - PHILADELPHIA, PA.

PERCY N. KENWAY,

85 WATER STREET, BOSTON.

Plans and specifications for Heating and Ventilating Apparatus.

See last or next issue for the following advertisements.

Berger Mfg. Co.
Belmont Iron Works.
Bridgeport Wood Finishing Co.
Brixey, W. R.
Paul E. Cabaret.
Central Expanded Metal Co.
Frost & Adams.
Gorton & Lidgerwood.
L. Haberstroh & Son.
Thomas J. Hind.
Marcy & Gardner.
N. Y. Metal Ceiling Co.
Okonite Co.
J. B. Prescott & Son.
Samson Cordage Works.
Stebbins Mfg. Co.
Thorn Single and Ornament Co.
Stewart Ceramic Co.
N. & G. Taylor Co.

BUILDING INTELLIGENCE.

(Alterations and Additions Continued.)

Brooklyn, N. Y.—Melrose St., n. s. 105' w Hamburg St., two-sty frame school and hall, 65' x 100', tin roof; internal and other alterations; \$5,000; own, St. Leonard's R. C. Church, Hamburg and Jefferson Sts.; arch., F. J. Berlenbach, Jr., 260 Graham Ave.
Forrest St., n. s. 123' 7 1/2' e Bushwick Ave., five-sty brick brewery, 82' 2 1/2' x 45', tin roof; two-sty brick extension, 82' 2 1/2' x 28', gravel roof, to be added; \$4,000; own, Claus Lipsins Brewing Co., Bushwick Ave., cor. Forrest St.; arch., Th. Engelhardt, 905 Broadway; bid., Jacob Kauth, Jackson and Humboldt Sts.

Columbia Heights No. 178, three-sty and basement frame and brick dwell., 29' x 40', tin roof; two-sty and basement brick extension, 16' 4' x 21' 4', tin roof, to be added, internal and other alterations made; \$4,000; own, Henry Blatchford, 318 Lafayette Ave.; arch., J. D. Reynolds & Son, Arbuckle Building.

Jamaica Road, n. w. cor. Tanehon Pl., one-sty stone and brick car-house and stable, 100' x 32', gravel roof; one-sty stone extension, 135' x 25', 116', gravel roof, to be added, internal and other alterations made; \$20,000; own, Brooklyn Trolley Co. and Suburban R. R. Co., 168 Montague St.; arch., A. W. Dickie, 168 Montague St.; bid., F. J. Ashfield, 168 Montague St.

Cumberland St., No. 291, three-sty frame dwell., tin roof, 29' 4' x 40'; three-sty and basement brick extension, tin roof, 29' 4' x 7' 6", to be added, internal and other alterations made; \$3,600; own, Jas. White, 291 Cumberland St.; arch., Parfitt Bros., 26 Court St.

Chauncey St., s. w. cor. Ralph Ave., one-sty frame church and Sunday-school, tin and slate roof, 61' x 95'; one-sty brick extension, tin and slate roof, 39' x 60', to be added; internal and other alterations made; \$10,000; own, Central Congregational Society, Hancock St., near Franklin Ave.; arch., Fowler & Hough, 280 Broadway, New York City.

Willoughby Ave., s. s. 155' 6" w Hamburg Ave., two-sty brick storage-house for beer, tin roof, 30' x 89'; internal and other alterations; \$4,200; own, Melzer Bros., 185 Suydam St.; arch., Fred Wunder, 99 Broadway.

Henry St., w. s. 225' s Clark St., four-sty and basement brick dwell., tin roof, 22' 2 1/2' x 40'; three-sty and basement brick extension, tin roof, 22' 2 1/2' x 24' 6" to be added; internal and other alterations made; \$5,000; own, First Presbyterian Church, Henry St.; arch., Wm. B. Tubby, 81 Fulton St., New York City.

Ryerson St., bet. De Kalb and Willoughby Sts., six-sty and basement brick building, tin roof, 50' x 84' x 100'; one-sty brick extension, copper roof, 10' x 47', to be added, internal and other alterations made; \$10,000; own, the Pratt Institute; arch., Wm. B. Tubby, 81 Fulton St., New York; bid., John Thatcher, 70 North Elliott Pl.

Douglas St., n. s. 300' e Albany Ave., 7 two-sty and basement brick dwells., 19' x 45', tin roofs; internal and other alterations; \$1,000 each; own, Chas. Meyers, St. Marks St. and Albany Ave.; arch. and bid., Chas. Collins, Halsey St. and Broadway.

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING,
NEW YORK.

DREXEL BUILDING,
PHILADELPHIA.

MONADOCK BUILDING,
CHICAGO.

DASHWOOD HOUSE,
LONDON.



Announce to all who contemplate *building or renovating*
Hotels, Office Buildings or Residences, that they have
formed a department in their extensive works for

**Architectural Woodwork,
Fine Cabinet Work, and
Interior Finishing.**

Plans, designs, specifications and further particulars will be submitted on ap-
plication. Address **WORKS AT WILMINGTON, DEL.**

JOHN WILLIAMS, 544 to 556 West 27th Street, New York.

WROUGHT IRON AND BRASS WORK TO SPECIAL DESIGNS ONLY.

REFERENCES: (Tiffany & Co., N. Y.; Cottier & Co., N. Y.; L. Marcotte & Co., N. Y.; McKim, Mead &
White, N. Y.; Babb, Cook & Willard, N. Y.; Bruce Price, N. Y.; R. M. Hunt, N. Y.; Bailey,
Banks & Biddle, Phila.; Frank Hill Smith, Boston.; A. H. Davenport, Boston.)

ARCHITECTURAL RENDERING

— IN —

PEN AND INK.

By D. A. GREGG, Instructor in PEN-AND-INK DRAWING, at the Massachusetts
Institute of Technology.

COMPLETE IN FOUR PARTS.

American Architect & Building News Co., Boston, Mass.

BUILDING INTELLIGENCE.

(Alterations and Additions Continued.)

Kemp St., s w cor. South 2d St., three-sty brick public school, 94' x 92', tin and slate roof; one-sty brick extension, 14' x 26' 6", tin roof, to be added, and other alterations made; \$3,500; own., Board of Education, 131 Livingston St.; arch., J. W. Naughton, 131 Livingston St.; bld., Matthew Smith, 209 Lorimer St.

Manhattan Ave., No. 349, four-sty brick clubhouse, 22' 6" x 54', tin roof, internal and other alterations; \$5,000; own., S. T. Taylor, 349 Manhattan Ave.; arch., P. Tillion, 209 Manhattan Ave.; bld., A. T. Doyle, 93 Kent St.

Livingston St., No. 171-179, 4 three-sty and basement brick stores, 22' x 43', gravel roofs; internal and other alterations; \$3,500; own., Abraham & Straus, Fulton St. and Gallatin Pl.; arch., Geo. L. Morse, Eagle Building; bld., John Thatcher, 80 North Elliott Pl.

Cambridge, Mass. — Harvard St., No. 203, frame double dwell., 164' x 69'; own., F. A. Allen; arch., H. Hyde Dwight, Boston; contract not let.

Chestnut Hill, Pa. — Wayne St., w s, n Walnut Lane, interior and exterior alterations and additions of two-sty brick building, also two bay-windows; about \$10,000; bld., W. C. Mackie, Chestnut Ave.

Chicago, Ill. — French & Potter, interior alterations, n e cor. Wabash and Washington Sts.; \$3,000.
Charles Ahlswede, addition, 815-817 Belmont Ave.; \$3,500.

Jacob Parلمان, three-sty addition, 171 West 14th St.; \$3,000.
F. Kreh, three-sty addition, 419 Thomas Ave.; \$3,000.

Elizabeth, N. J. — Plans have been prepared by L. B. McElatrik & Son, 1402 Broadway, New York City, for the remodeling and interior redecoration of the Publishing Library Association Building into a theatre at a cost of about \$10,000.

Hightstown, Pa. — Three-sty addition and dining-hall, 69' x 90', to Peddie Institute; about \$20,000; arch., Isaac Pursell, 119 South 4th St., Philadelphia, Pa.

Lehigh, Pa. — Plans have been prepared by A. W. Loh, architect, South Bethlehem, Pa., for alterations to the Lehigh National Bank.

New Orleans, La. — Improvement to Pickwick Club buildings; \$30,000.
Enlargement of Grunewald Hotel; \$35,000; manager, Theo. Grunewald.

Philadelphia, Pa. — South Fifteenth St., No. 127, New front, interior alteration and two-sty stone, iron and brick back building; con., M. McGarry, 2021 Cherry St.

Five St., n e cor. 55th St., 2 three-sty brick school, additions and extension with brownstone trimmings; con., M. McManus, 1416 Tioga St.
Jefferson St., s e cor. 23d St., two-sty greenstone school addition for teachers; con., M. McManus, 1416 Tioga St.

Girard Ave., No. 807, additional brick story on back building and two-sty new back building; con., Philip Weber, 332 Master St.

Susquehanna Ave., No. 1730, interior and exterior alterations and one-sty brick back building, making one story of dwell. for store purposes; con., Warren & Herr, Oxford St., s w cor. Carlisle St.

Walnut St., s e cor. 12th St., the old Adams property will be altered into a store on the first floor and the mansard roof changed, the upper floors to be used for apartments; con., S. R. Riley, 627 Filbert St.; own., Mr. Hallahan.

BUILDING INTELLIGENCE.

(Alterations and Additions Continued.)

Federal St., n e cor. 27th St., additional brick story on two-sty building and new three-sty back building; con., Israel Reynolds, 1534 South Juniper St.

Chestnut St., No. 1108, new front on first story and interior alterations to five-sty store; con., Lewis Havens, 518 Girard Building.

Columbia Ave., n w cor. 17th St., interior and exterior alterations and two-sty brick back building; con., Fred H. Henry, 1713 Columbia Ave.

North Second St., No. 532, new brick front and interior alterations to four-sty store; con., Thomas W. Draper, 328 North 5th St.

Cadwalader St., No. 748, one-sty brick addition to foundry; con., Thomas M. Welsh, 758 South Broad St.

North Eleventh St., No. 1424, alterations of three-sty store to dwell.; con., Adam A. Wilson, 1441 North 11th St.

North Eleventh St., No. 1634, interior and exterior alterations and new three-sty brick building to store and dwell.; bld., A. A. Hartman, 1810 War-nock St.

South St., No. 1125, two-sty brick back building, 25' x 42', to store; con., Hugh Hazlett, 1701 North 20th St.

Coral St., e s, n Wheatstee Lane, exterior alterations to two-sty brick building; own., Robert H. Foerderer, Coral St. and Wheatstee Lane.

Market St., s e cor. 9th St., interior and exterior alterations and additions to store-building; own., Gimbel Bros.; arch., Angus S. Wade, Hale Building.

Poplar St., No. 1711, four-sty brick addition and alteration to factory; con., J. Sims Wilson, 1404 Barclay St.

North Second St., No. 2120, alterations of store and dwell. into dwell. entire; bld., Daniel Newling, 2506 Mascher St.

American St., e s, n Somerset St., additional brick story on two-sty factory; own., D. H. Stroud, 2813 American St.

Chestnut St., No. 119, alterations and three-sty brick back building to store; con., William Steele & Son, 506 Walnut St.

North Fifth St., No. 310, interior alterations, additional brick story on main building and new two-sty back building; con., A. Raymond Raff, 1327 Button-wood St.

Locust St., No. 1314, additional brick story on three-sty brick rectory; con., Jacob Myers, Locust St. s e cor. 13th St.

St. James Pl., cor. 22d St., four-sty brick addition to dwell.; con., Jacob Myers, Locust St. s e cor. 13th St.

Master St., No. 351, alterations to front of three-sty stone dwell.; con., Stewart Bros., 2527 North 5th St.

Pierce St., s s, w 4th St., alterations of two-sty brick ice-house into stable; con., Skelton & Shafer, 1741 South 3d St.

Peltz St. and Schuykill Ave., additional brick sty on two-sty dry kiln and frame shed; own., F. R. Gerny, 1835 Market St.

Chestnut St., No. 3313, interior and exterior alterations and laundry building for convent; con., John Sullivan, 5218 Woodland Ave.

Baring St., No. 3302, extensive interior and exterior alterations to dwell.; arch., Moses & King, 431 Walnut St.

Chestnut St., Nos. 1412-1414, interior alterations to stores; about \$15,000; own., Homer, Le Boutillier & Co.; con., Stacy Reeves & Sons, 1611 Filbert St.

Germanstown Ave., No. 4677, interior and exterior alterations and two-sty brick back building; con., David Dear, 243 Ripka St.

ARCHITECTURE



DIPLOMAS AWARDED. Courses in other trades, all including thorough instruction in Mathematics and Physics. Send for FREE circular stating subject you wish to study to The Correspondence School of Industrial Sciences, Scranton, Pa.



JUST PUBLISHED,

Monumental Staircases

BEING NO. 2 OF A SERIES
OF

ARCHITECTURAL ODDS AND ENDS.

40 Gelatine Prints.

\$5.00 PER COPY.

For sale at this office,

211 Tremont Street. - Boston.

BUILDING INTELLIGENCE.

(Alterations and Additions Continued.)

Madison Sq., Nos. 2313-2319, mansard roof on two-sty office-building and new two-sty back building; con., Gillison, Christie & Lockerie, 1615 Catharine St.

Berks St., (rear of) s e cor. Mervine St., interior and exterior alterations and one-sty brick addition to shop; con., Charles A. Patterson, 2636 North 9th St.

Master St., s s, above Sixth St., interior alterations and staircase for sprinkling purposes, and two additional stories to five-sty warehouse; arch., Walter H. Gessinger, Chestnut St., s w cor. 12th St.

Sidney St., No. 1126, interior and exterior alterations to three-sty carriage-house; e n., John Woh-lart, 1135 Carpenter St.

Thompson St., No. 1707, interior alterations and two-sty brick back building; con., Joseph Pettit, 1811 North 20th St.

Clearfield St., cor. Belgrade St., one-sty brick and stone addition for cells; con., Thomas C. Trafford, 2332 North Broad St.

Diamond St., n s, above 20th St., interior alterations to the Union M. E. Church; con., John R. Wiggins, 1111 Arch St.

Chelton and Germantown Aves., new front with round corner, and rear addition to U. S. sub post-office building; about \$12,000; con., Doyle & Doak, 133 South 15th St.

South Tenth St., No. 209, alterations and four-sty brick addition for printing-office, bld., A. A. Ardis, Jr. & Co., 705 Sansom St.

Frankford Ave., No. 1036, three-sty brick back building; con., George W. Miller, 902 Betz Building.

Front St., e s, s Gurney St., two-sty brick addition to and additional story on one-sty stable and feed store; con., Charles Roth, 432 Huntington St.

Federal St., No. 1405, repairs to two-sty brick (burnt) livery stable; con., James Johnston, 1713 Sansom St.

Oxford St., s e cor. Palethorp St., repairs to four-sty brick (burnt) factory; con., James Johnston, 1713 Sansom St.

Fitzwater St., No. 2112, alterations and two-sty brick, stone and frame addition to training-school; con., George F. Payne & Co., 401 South Juniper St.

Lombard St., Nos. 1021-1026, new brick front and new rear walls and extensive alterations to three-sty brick building to be occupied by the colored Odd Fellows, for hall purposes, lodge-rooms, etc.; con., William J. Mingle, 923 Locust St.

Market St., Nos. 1022-1024, front and interior alterations to 2 five-sty brick stores; con., George L. Lipps, 212 South 7th St.

Race St., No. 1009, alterations and additions to factory; con., James Scherer, 1126 Mark's Lane; own., Shaw & Ewing.

Butler St., n e cor. Broad St., extension and additional stone story on St. Stephen's Roman Catholic Church; about \$50,000; con., Nicholas Cavanagh, 321 North 40th St.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,BEAMS, CHANNELS, ANGLES, ZEEs, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.**Round, Square and Flat Bars**
of all sizes.**SPECIALTIES:****PHENIX COLUMNS AND UPSET EYE-BARS**

Of all sizes, in Iron or Steel.

ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.**AGENTS:**

New York: EDWARD CORNING & CO., 29 Broadway.

Chicago: A. C. STITES, 931 Rookery Building.

Boston: EDWARD CORNING & CO., 70 Kilby Street.

PASSAIC ROLLING MILL CO.,
PATERSON, N. J.**STEEL BEAMS** 4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

NEW YORK OFFICE, - - 43 BROADWAY.

J. S. THORN CO.**Architectural Sheet-Metal Works.**Metal Building Trimmings, Ventilating Skylights
Metallic Roofing Tiles, Building Specialties, Builders'
Light Iron Work of every description.

Nos. 1225 to 1229 Callowhill Street,

PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Alterations and Additions Continued.)

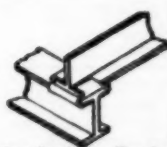
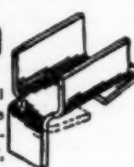
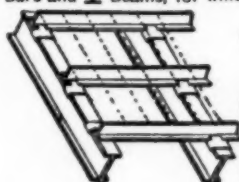
Catharine St., No. 1027, three-sty brick back build-
ing; con., A. Donat & Co., 1005 South 8th St.
Eighth St., e. s. above Master St., interior altera-
tions to Beth Israel Synagogue; con., Charles M.
Lane, 619 Commerce St.North Sixteenth St., No. 1407, interior alterations
and one-sty brick back building to four-sty dwell.;
con., Charles P. Nesbitt, 425 Locust St.South Broad St., No. 755, interior alterations to
brick school building; con., Thomas M. Welsh, 758
South Broad St.Westminster Ave., s. w. cor. 48th St., additional
story on two-sty brick dwell.; own., John Magin-
nis, 842 North 46th St.Market St., No. 828, interior alterations to store;
con., B. Ketchum's Sons, 1029 Brown St.Market St., s. e. cor. 7th St., interior and exterior
alterations to four-sty brick store; con., C. A.
Countiss, 321 Arch St.Arch St., s. w. cor. 22d St., interior and exterior
alterations to two-sty livery stable; con., James
W. Saunders & Son, 230 North 22d St.Gaul St., No. 3128, interior and exterior altera-
tions to two-sty brick store and dwell.; own.,
Anton Janiszewski, 3128 Gaul St.Locust St., No. 1307, alterations, bay-window and
three-sty brick back building; own., Dr. Drysdale,
1307 Locust St.; about \$10,000; con., Jacob Meyers,
s. e. cor. Locust and 13th Sts.Lombard St., s. e. cor. 8th St., interior alterations
and two-sty back building; con., Kemon & Wilson,
n. e. cor. Lombard and 8th Sts.South Thirteenth St., No. 627, three-sty brick
back building; con., Kemon & Wilson, Lombard
and 8th Sts.Jefferson St., n. w. cor. Hancock St., three-sty
brick addition to factory; con., Ralph & Gregg, 1233
Olive St.Lancaster Ave., No. 4027, interior alterations to
brick store; con., Hayes Mendenhall, 4027 Lancaster
Ave.Wister St., e. s. bet. Boynton and Wakefield Sts.,
interior alterations and two-sty brick addition to
dwell.; con., John D. Caldwell, 205 Wister St.Broad St., w. s. below Chestnut St., extensive
alterations and additions to Hotel Lafayette; arch.,
Cope & Stewardson, 330-34 Walnut St.Walnut St., No. 621, remodel building for office
purposes, ornamental stone front; arch., H. G.
Dagitt, 706 Walnut St.North Broad St., No. 1204, interior and exterior al-
terations to dwell.; own., George Widener; con.,
Samuel Hart & Sons, 1109 Fairmount Ave.Crown St., No. 233, alteration of church into
livery stable; con., William T. Stevenson & Bro.,
2236 Virginia St.; own., J. A. Schwartz.Reese St., No. 2541, alterations and two-sty brick
addition to stable; con., John Hobert, 3351 Mascher
St.**APARTMENT-HOUSES.**Boston, Mass. — Mellen St., Ward 24, three-sty
frame apart. flat roof, 43' x 74' 6"; own. and bld.,
C. H. Belledue, 5 Province Ct.; arch., S. D. Kelly.Brookline, Mass. — Marion St., four-sty brick
apart.; \$25,000; own., Edw. W. Niles.Chicago, Ill. — James Houston, three-sty flats, 422
South Ashland Ave.; \$7,000.J. T. Bunting, 4 three-sty flats, 2147-2159 North
Halsted St.; \$50,000.W. Frink, 2 two-sty flats, 4738 Centre Ave.;
\$5,000.

H. Hessler, two-sty flats, 6522 Evans Ave.; \$3,000.

Sarah Burke, two-sty flats, 2835 Wabash Ave.;
\$3,000.Robert Wallace, three-sty flats, 984 Turner Ave.;
\$4,000.John Frooz, two-sty flats, 931 Turner Ave.;
\$3,500.**Iron-Work.****JACKSON ARCHITECTURAL IRON WORKS,**
ESTABLISHED 1840.**IRON**Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams,
Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings
and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze.
Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts.

Office, 315 East 28th St., New York.

**H. A. Streeter's Patent Clip**ARCHITECTS, OWNERS, CONTRACTORS, and all
others interested in iron or steel construction will please
note that I have PATENTED A STEEL CLIP for connect-
ing Angle or Tee bars to I Beams, etc., which reduces the expense one-half,
and does away with the old method of Drilling and Bolting, which is a great sav-
ing of Time, besides allowing an easy method of adjusting Tee bars to any de-
sired width of Tile. (This method is now adopted by our principal contractors).
Clips furnished ready to apply by sending the Sections and weight of Tee
Bars and I Beams, for which connections are wanted.

FOR PRICES AND FURTHER INFORMATION

APPLY TO **STREETER****Globe Iron Works,**

35-41 E. INDIANA STREET,

CHICAGO, - - - ILL.

**ORNAMENTAL****IRON
WORK****PRISMATIC****LIGHT
WORK****DAUCHY IRON WORKS**
84-92 ILLINOIS STREET
* CHICAGO ***BUILDING INTELLIGENCE.**

(Apartment-Houses Continued.)

F. Stokar, three-sty flats, 3017 Lowe Ave.; \$3,500.

C. Olcott, three-sty flats, 276 Washington Boul-
evard; \$6,000.John B. Hoffman, three-sty flats, 1510 Oakdale
Ave.; \$6,000.J. and W. Lainger, two-sty flats, 13 Harding Ave.;
\$4,000.W. Robin, two-sty flats, 244 West 25th St.;
\$3,000.John J. Daley, two-sty flats, 2072 Wilcox St.;
\$3,000.

John Finsadt, three-sty flats, 7 Samuel St.; \$4,500.

Gust. Gorlin, three-sty flats, 1043 Fifty-ninth St.;
\$3,300.John Rumps, two-sty flats, 227 Southport Ave.;
\$3,500.A. Anderson, two-sty flats, 7044 Addison Ave.;
\$3,100.A. Wigeland, four-sty flats, 173 LaSalle Ave.;
\$10,000.J. W. Pehrman, two-sty flats, 1492 Thirty-fourth
Ct.; \$4,000.E. B. Collins, two-sty flats, 6420 Langley Ave.;
\$3,200.August Gerke, two-sty flats, 933 South Leavitt
St.; \$4,000.A. Sonek, two-sty flats, 816 Clinton Park Ave.;
\$3,000.Mrs. J. Menhart, two-sty flats, 1669 Monroe St.;
\$5,000.

P. Reddy, two-sty flats, 3324 Union Ave.; \$3,000.

B. F. Lowe, two-sty flats, 1291 Washington St.;
\$8,000.Mrs. M. Bohn, two-sty flats, 478 South Oakley
Ave.; \$5,000.

R. Miller, two-sty flats; 2090 Jackson St.; \$4,500.

Albert Hoffman, three-sty flats, 346 Glenwood
Ave.; \$5,000.Mrs. A. Sullivan, two-sty flats, 540 Homan Ave.;
\$4,000.

L. Sreg, two-sty flats, 738 Holt Ave.; \$4,800.

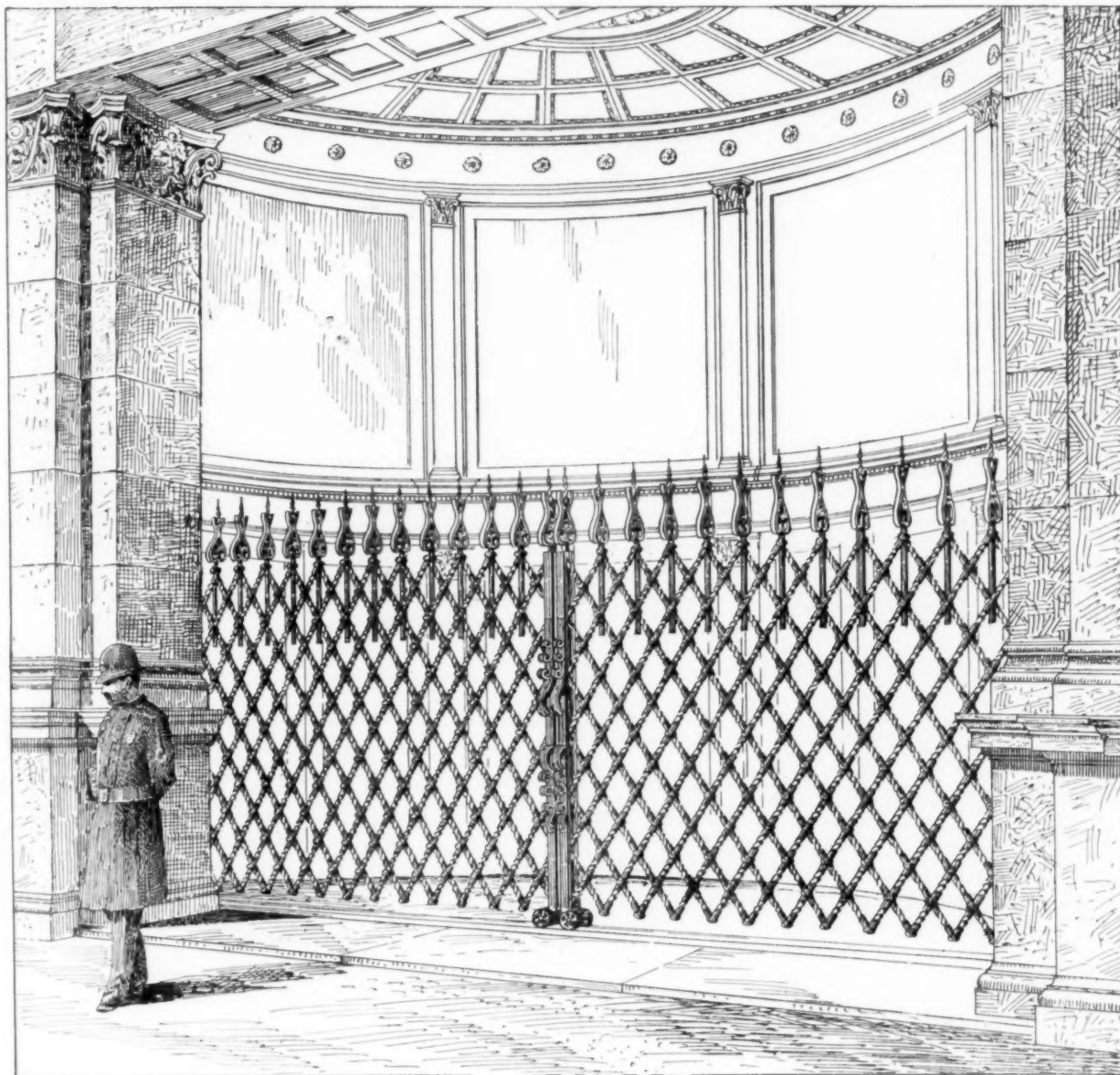
Mrs. L. Krouse, two-sty flats, 831 Lawndale Ave.;
\$3,000.Thomas O'Connell, three-sty flats, 51 Whipple St.;
\$4,000.H. F. Alberts, three-sty flats, 421 Eighty-ninth
St.; \$4,000.Louis Marston, 2 three-sty flats, 1010-1012 Garfield
Boulevard; \$15,000.**BUILDING INTELLIGENCE.**

(Apartment-Houses Continued.)

A. Ashland, two-sty flats, 936 Kedzie Ave.;
\$3,000.Hartford, Conn. — West St., brick apart., 6 suites;
\$14,000; own., Hugh Harbison; bld., Edw. S. Tryon;
arch., A. W. Seville.New York, N. Y. — Amsterdam Ave., e. s. 25th n 67th
St., five-sty brick flat flat tin roof, 25' x 87', 50'
high; \$20,000; own., Adam Gish, 444 West 50th St.;
arch., M. V. B. Ferlon, 1749 Broadway.Lawrence St., s. s. 61st 109' w Amsterdam Ave., five-
sty brick flat flat tin roof, 25' x 76', 60' high;
\$18,000; own., R. H. Pettit, 86 Lawrence St.; arch.,
A. E. Davis, 253 Third Ave.Eighty-third St., n. w. cor. Amsterdam Ave., 2 five-
sty brick flats, flat tin roofs, 19' x 27' x
85' x 90', 39' high; \$72,000; own., Cecelia McKenna,
173 West 95th St.; arch., J. H. Valentine, 186 East
116th St.One Hundred and Second St., n. s. 100' e Columbus
Ave., 4 five-sty brick flats, flat tin roofs, 19' x 27' x
85' x 90', 39' high; \$72,000; own., Cecelia McKenna,
173 West 95th St.; arch., J. H. Valentine, 186 East
116th St.One Hundred and Thirty-third St., n. s. 200' w
Lenox Ave., 4 five-sty brick flats, flat tin roofs, 19'
x 84', 50' high; \$72,000; own., M. C. Kerwin, 108 One
Hundred and Twenty-seventh St.; arch., J. H.
Valentine, 186 East 116th St.Eighth Ave., s. e. cor. 120th St., five-sty brick flat,
flat tin roof, 29' x 112', 59' high; \$45,000; own.,
Chambers & Lennon, 186 West 102d St. and 100 East
81st St.; arch., Henry Anderson, 1180 Broadway.Sixty-second St., n. s. 225' w Columbus Ave., 3 five-
sty brick flats, flat tin roofs, 20' x 90', 58' high;
\$60,000; own., D. C. Jacobus, et al, 325 West 28th
St.; arch., John C. Burne, 101 West 42d St.One Hundred and Forty-sixth St., 100' n 2d Ave.,
four-sty brick flat flat tin roof, 32' x 50', 50' high;
\$15,000; own., A. M. Bruggemann, Hoboken, N. J.;
arch., Kretzer & Hebbard, 62 Bond St.Eighth Ave., e. s. 75' n 119th St., five-sty brick
flat, flat tin roof, 25' x 72', 60' high; \$17,500; own.,
John Allan, 304 West 119th St.; arch., Andrew
Spence, 163 East 125th St.Third Ave., No. 417, five-sty brick flat, flat tin
roof, 25' x 97', 59' high; \$22,000; own., Weil & Mayer,
237 East 60th St.; arch., Schneider & Herter, 48
Bible House.

(Continued on page xvi.)

THE
WILLIAM R. PITT
COMPOSITE
IRON WORKS,
202 FIFTH AVENUE,
COR. TWENTY-FIFTH ST. NEW YORK.



PATENTED JANUARY 13, 1891.

STEPHEN D. HATCH,
ARCHITECT.

ENTRANCE TO THE ROOSEVELT BUILDING,
BROADWAY AND THIRTEENTH STREET,
NEW YORK.

MARK EIDLITZ & SON,
BUILDERS.

THE ABOVE IS ONE OF THE IMPROVED PITT PATENT FOLDING GATES MADE IN BRONZE METAL. THE GATE IS 8 FEET 6 INCHES HIGH AND TWENTY-TWO FEET WIDE.

AS A RULE, FOLDING GATES ARE NOT ARTISTIC IN DESIGN, BUT IT IS OUR CONSTANT AIM TO PRODUCE THEM IN ATTRACTIVE FORM, AND WE HAVE SOME EXCELLENT DESIGNS IN GATES WHICH FOLD SO AS TO OCCUPY THE LEAST POSSIBLE SPACE.

THESE GATES ARE SUITABLE FOR LARGE OFFICE BUILDINGS AND FINE STORE FRONTS. THEY TAKE UP LESS ROOM THAN THE MASSIVE SWINGING DOORS, AND WHEN MADE IN BRONZE METAL COST LESS THAN THE RIGID GATES.

ARCHITECTS SHOULD SPECIFY THE "PITT" PATENT GATES AND THEN SEE THAT THEY GET THE RIGHT ONES.

WE ARE KEEPING UP OUR REPUTATION FOR GOOD WORK IN ALL OUR LINES AND IF YOUR FOLDING GATES, GRILLES, RAILINGS AND LAMPS ARE MADE BY US YOU MAY BE ASSURED OF ARTISTIC DESIGN AND GOOD WORK.

(Apartment-Houses-Continued.)

Worcester, Mass.—Bradley St., four-st'y brick and stone apart.; own., Paul Langlois; con., Eli Beislie; arch., Geo. H. Clemence.

CHURCHES.

Brooklyn, N. Y.—Eighth Ave., e s, bet. 16th and Braxton Sts., one-st'y brick church, 3/4 6 1/2 x 112, slate roof; \$7,000; own., Little Sisters of the Poor, on premises; arch., Parrott Bros., 26 Court St.

Burgess, Pa.—Plans have been prepared by J. E. Allison, arch., 713-14 Penn Building, 708 Penn Ave., Pittsburgh, Pa., for the Westminster Presbyterian Church; about \$6,000.

Columbia, Pa.—Plans have been prepared by H. A. Roby, arch., 733 Cumberland St., Lebanon, Pa., for a large church to be built here.

Columbus, Ga.—First Baptist Church; \$10,000.

Detroit, Mich.—Henry Ivo, brick church, 376 Hastings St.; \$12,000.

Fort Lee, N. J.—One-st'y brick and terra-cotta chapel for the Institute of the Holy Angels, slate roof; about \$50,000; arch., William Schickel & Co., 246 Fifth Ave., New York City.

Maplewood, Pa.—One-st'y brick Methodist Episcopal Church; about \$12,000; arch., Cody & Brewer, 116 East 22d St., New York City.

Sheridan, Pa.—Frame First Presbyterian Church; \$6,000; arch., J. E. Allison, 713-14 Penn Building, Pittsburgh, Pa.

Wakefield, Mass.—At the cemetery, frame chapel, 29' x 35'; \$100; own., Temple Adath Israel Society; bld., Ward Bros.; arch., S. D. Kelly, Boston.

EDUCATIONAL.

Chicago, Ill.—City of Chicago, two-st'y and basement brick school, cor. Sheridan and Gardner Aves.; \$30,000.

Detroit, Mich.—J. G. Doherty, two-st'y brick school, 284 Fourteenth Ave.; \$4,000.

New Haven, Conn.—College St., No. 131, brick and stone dormitory, 70' x 90'; \$25,000; own., Stokes Trust Corporation.

Worcester, Mass.—Abbott St., two-st'y brick school, 8 rooms, pitch roof, 80' x 94'; \$30,000; own., City of Worcester; arch., Forbush & Hathaway; contract not let.

FACTORIES.

Brooklyn, N. Y.—Tennant St., e s, 114' s Scott Ave., two-st'y and basement brick factory, 70' x 50', gravel roof; \$10,000; own. and arch., Joseph Rosenberg, 131 Vanderbilt Ave.

Malden, Mass.—Pierce St., one-st'y frame structure for Wire Mill, flat roof, 70' x 100'; own., Wire Grip Fastener Co., Chicago; bld., Geo. M. Coan; arch., Willard M. Bacon, Boston.

New York, N. Y.—One Hundred and Thirty-fourth St., s s, 180' w South Boulevard, four-st'y brick factory, flat gravel roof, 39' x 100', 44' high; \$15,000; own., S. K. Keiso, 675 East 136th St.; arch., A. E. Davis, 2535 Third Ave.

East Ninety-sixth St., Nos. 312-314, 2 three-st'y brick factories, flat gravel roofs, 50' x 85', 40' high; \$16,000; own., Edw. D. Conolly, 146 East 142d St.; arch., J. E. Terhune, 39 Cortlandt St.

One Hundred and Thirty-fourth St., s w cor. Brook Ave., five-st'y brick factory, flat tin roof, 50' x 100', 68' high; \$30,000; own., Geo. Abendschein, 150 East 22d St.; arch., G. Fred Abendschein, 447 West 26th St.

Monroe St., No. 74, seven-st'y brick factory, flat tin roof, 20' x 92', 75' high; \$18,000; own., Louis Aronwitz, 312 Madison St.; arch., Schneider & Herter, 48 Bible House.

One Hundred and Twenty-third St., n s, 175' w Columbus Ave., one-st'y brick workshop, flat tin roof, 25' x 100', 15' high; \$3,000; own., Pluckney & Fox, 152d St., North River; arch., Philo B. Ruggles, 625 Fulton Building.

HOSPITALS.

Boston, Mass.—City Hospital Grounds, 2 brick and stone buildings; \$230,000; own., City of Boston; bld., Stephen Brennan & Co.

Philadelphia, Pa.—Spruce St., n s, w 34th St., four-st'y and basement stone and brick hospital-building, 151' x 78', with three-st'y back building, 31' x 85' 5/8', the D. Hayes-Agnew Memorial Pavilion; arch., Cope & Stewardson, 324 Walnut St.; con., W. R. Dougherty, 1604 Sanson St.

HOTELS.

Boston, Mass.—Tremont St., near Chandler St., Ward 16, six-st'y brick hotel, flat roof, 60' x 94'; own., A. F. Arnold; bld., John Hewley.

HOUSES.

Baltimore, Md.—Ten two-st'y brick dwells., w s McCulloh St., bet. Clendinning and Whitelock Sts.; own., Jos. H. Pentz, 630 West Saratoga St.

Two two-st'y brick dwells., n s Jefferson St., e Independence St.; own., W. K. Saumenig, 2035 Division St.

Twenty-six two-st'y brick dwells., s s Biddle St., bet. Park and Collington Aves.; own., Frank Herbert, 2126 Jefferson St.

Five two-st'y brick dwells., e s Patterson Park Ave., bet. Fairmount Ave. and Fayette St.; own., Dryden & Hook, 125 North Patterson Park Ave.

Bayonne, N. J.—Two-st'y and attic brick and frame dwell., 38' x 42'; own., A. R. Brook; arch., A. C. Longyear, 126 Liberty St., New York City.

Heaver, Pa.—Brick dwell. to cost about \$5,000 will be built for Lewis Davidson; arch., J. E. Allison, rooms 713 14 Penn Building, Pittsburgh, Pa.

Boston, Mass.—Catawba St., No. 33, Ward 21, three-st'y frame dwell., flat roof, 25' x 61'; own., W. S. Rumrill, 74 Dale St.; bld., C. A. Harris.

Boylston Terrace, near Centre St., Ward 23, frame dwell., 28' x 47'; own., Teresa E. McLaughlin; bld., Walter Cuning, 37 Cranston St.

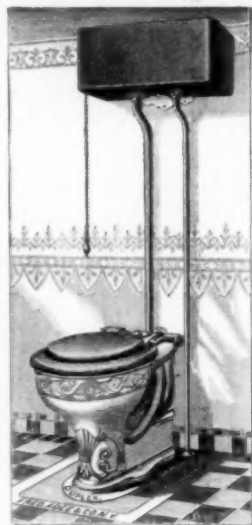
Harrison Ave., Nos. 918-933, Ward 20, 5 three-st'y brick dwells., flat roofs; each 20' x 40'; own. and bld., T. L. Connelly, 37 Thorndike St.

Connelly Pl., Ward 20, 2 three-st'y brick dwells., flat roofs, each 20' x 40'; own. and bld., T. L. Connelly, 37 Thorndike St.

East Lenox St., Nos. 99-101, Ward 20, 2 three-st'y brick dwells., flat roofs, each 20' x 40'; own. and bld., T. L. Connelly, 37 Thorndike St.

Medford St., No. 531, Ward 4, three-st'y frame dwell., flat roof, 25' x 40' 6"; own., Cornelius Crowley, 535 Medford St., Charlestown; bld., J. G. Poin-dexter.

Lamont St., near Linden Park St., Ward 19, three-st'y frame dwell., flat roof, 22' x 50' 6"; own.,



"DUPLEX"

THE BEST WATER CLOSET

IN THE WORLD

Quiet in Operation,

Positive in Action,

Elegant in Appearance

—AND—

Sanitarily Perfect.

FRED. ADEE & CO.,

90 BEEKMAN ST.,

NEW YORK.

CHARLES I DEMANDING THE
FIVE IMPEACHED MEMBERS.

From the painting by

JOHN SINGLETON COPLEY, R. A.,

in the Boston Public Library.

A few copies of the excellent heliotype made of this fine historical picture, 11 x 16 inches, printed on heavy plate paper, 22 x 28 inches, with key to the portraits, are for sale.

PRICE . . . \$3.00 each.

Sent carefully wrapped and postpaid, on receipt of price.

WALTER ROWLANDS, - - 211 Tremont Street, BOSTON.

BUILDING INTELLIGENCE.

(Houses Continued.)

Rudolph Knobel, 30 Smith St., Roxbury; bld., J. Lupold.

Hyde Park Ave., near Weld Hill St., Ward 23, 2 three-st'y frame dwells., flat roofs, 21' 6" x 50'; own., S. E. Blanchard and C. A. Watts, 36 Columbus Ave.; bld., D. E. Poland.

Paris St., No. 315, Ward 1, three-st'y frame dwell., flat roof, 21' x 45' 6"; own., John Dobbin, 187 London St., East Boston; bld., J. McCormick.

St. Botolph St., Nos. 39-47, Ward 11, 5 three-st'y brick dwells., flat roofs, each 22' x 42'; own. and bld., J. D. Sharp.

Lansdowne St., near Massachusetts Ave., Ward 20, 2 three-st'y brick dwells., flat roofs, each 20' x 40'; own. and bld., W. C. Norris.

Tremont St., No. 1029, Ward 19, three-st'y brick structure for dwell. and store, 16' 6" x 50'; own., Mrs. M. E. Cleary; bld., Chas. Cleary.

Bay State Road, No. 13, Ward 22, four-st'y brick dwell., flat roof, 25' x 70' 5/8"; own. and bld., Chadwick & Stillings, 31 Equitable Building.

Hillside St., near Pontiac St., Ward 22, three-st'y frame dwell., pitch roof, 25' x 55'; own., Mrs. E. A. Dwyer; bld., C. H. Dwyer.

High St., Nos. 52-54, Charlestown, three-st'y frame dwell. and store, flat roof, 21' x 62'; own. and bld., J. W. Hill.

Morrill St., near Pleasant St., Ward 24, three-st'y frame dwell., flat roof, 26' x 55'; own., Thos. Boles, 5 Pleasant Pl., Dorchester.

Wren St., near Oriole St., Ward 23, frame dwell., gambrel roof, 36' 6" x 38' 6"; own., C. H. Bailey; bld., M. A. Blanchard.

Stedman St., near Keyes St., Ward 23, 2 three-st'y frame dwells., flat roofs, each 28' x 38'; own., C. F. Kilyan.

Dorchester Ave., No. 906, Ward 24, three-st'y frame dwell., flat roof, 22' x 45'; own., Joanna Kelley; bld., W. T. Eaton.

Church St., cor. High St., Ward 24, three-st'y frame dwell., flat roof, 25' x 63' 3/4"; own., J. Donnan-hue; bld., Patrick Shea.

Carruth St., cor. Beaumont St., Ward 24, three-st'y frame dwell., hip roof, 33' x 35'; own., Frank Percival; bld., C. P. Stone.

Chestnut Hill Ave., near Union St., Ward 25, 2 three-st'y frame dwells., pitch roofs, each 22' x 26'; frame dwell., hip roof, 22' x 52'; frame dwell., 20' x 48'; own., W. Jackson.

Palmer Pl., off Palmer St., Ward 20, 3 three-st'y frame dwells., flat roofs, 20' x 59' 6"; own., C. H. Jackson; bld., Douglas McDonald.

Bradley St., Ward 24, two-and-one-half-st'y frame dwell., gambrel roof, 34' x 38'; own., Lizetta Clemer; bld., C. H. Wetmore; arch., Willard M. Bacon.

Caruth St., Ward 24, two-and-one-half-st'y frame dwell., hip roof, 38' x 40'; \$7,000; own., Frank Percival; bld., C. P. Stone; arch., Willard M. Bacon.

Brookline, Mass.—Three-st'y brick and stone dwell., pitch roof, 52' x 52' 6"; \$30,000; own., Louis Cabot; arch., Sturgis & Cabot, Boston; contract let.

Green St., cor. Dwight St., two-and-one-half-st'y

BUILDING INTELLIGENCE.

(Houses Continued.)

frame dwell.; \$10,000; own., C. H. Olmstead, 74 Sumner St., Boston.

Green St., near Harvard Ave., two-and-one-half-st'y frame dwell.; \$14,000; own., W. J. Batchelder, 677 Washington St., Boston.

Brooklyn, N. Y.—Tennis Ct., n s, 251' 7" w Ocean Ave., two-st'y and attic frame dwell., shingle roof, 26' x 45' 4"; \$6,000; own., Richard Ficken; arch., John J. Pettit, 186 Rensselaer St.

Fifty-ninth St., n s, 280' w 6th Ave., three-st'y frame dwell., tin roof, 20' x 52'; \$3,300; own., Mary Cumming, 141 Thirty-eighth St.; arch., H. L. Spicer, 1106 Third Ave.

St. Mark's Ave., s s, 327' 6" e Utica Ave., 2 three-st'y frame dwells., tin roofs, 25' x 60'; \$4,800 each; own., Mary F. Rogers, 1851 Atlantic Ave.; arch., Chas. Infanger, 26th Ward Bank.

Thirty-ninth St., s s, 275' e 6th Ave., 3 two-st'y and basement frame dwells., felt and gravel roofs, 16' 8" x 45'; \$3,000 each; own., J. Handel, 242 Rutledge St.

Stanhope St., s s, 375' e Evergreen Ave., two-st'y brick dwell., tin roof, 22' x 52'; \$4,500; own., arch. and bld., Hahn Bros., 246 Central Ave.

Bustleton, Pa.—Bustleton Pike, e s, s Megargee St., two-and-one-half-st'y frame dwell.; con., Israel Knights.

Cambridge, Mass.—Kennedy Ave., frame dwell.; own., Hammond Lamont; arch., Henry Hyde Dwight, Boston.

Camden, N. J.—Cherry St., No. 516, three-st'y dwell.; con., Aaron Ward, 821 South 8th St.

Castle Point, Hoboken, N. J.—Three-st'y frame and shingle dwell., tin roof; own., Richard Stevens; arch., Baker & Dallett, Walnut St., s w cor. 5th St., Philadelphia.

Chestnut Hill, Pa.—Thirty-second St., n s, w Chestnut Ave., two-and-a-half-st'y stone dwell., 40' x 60'; about \$15,000; con., William J. Patterson, Southampton Ave.

Chicago, Ill.—John Torscheder, two-st'y dwell., 2257 Garvin Ave.; \$3,000.

Weeks & Eckhart, 3 two-st'y dwells., 187-189 Ashland Boulevard; \$50,000.

H. C. Seaman, 2 three-st'y dwells., 671-673 Ione Pl.; \$11,000.

Detroit, Mich.—H. W. Holcomb, 2 brick dwells., 292-298 Merriek St.; \$12,000.

R. E. Kaseman, brick dwell., 71 Garfield Ave.; \$6,000.

John McEnhill, double frame dwell., 176-178 Abbott St.; \$3,600.

S. G. Falkenburg, three-st'y double brick dwell., 1835 Canfield Ave.; \$11,000.

Wm. Mitchell, double frame dwell., 551-553 Sixth St.; \$3,000.

John Hart, frame dwell., 771 Humboldt Ave.; \$3,000.

Vinton & Co., frame dwell., 26 Rowena St.; \$8,000.

W. P. Langley, brick dwell., 37 East Hancock St.;

THE J. L. MOTT IRON WORKS,

84 to 90 Beekman Street, New York.

311 and 313 Wabash Avenue, Chicago.

322 and 324 Boylston Street, Boston.

Wainwright Building, St. Louis.

Flood Building, San Francisco.



Copyright, 1893, by THE J. L. MOTT IRON WORKS, in their publications. Plate 108741. (Reduced cut.)

IMPERIAL PORCELAIN ROLL-RIM BATHS.

ILLUSTRATED PRICE-LIST MAILED ON APPLICATION.

FINE appearance, durability, and perfection from a sanitary standpoint are all combined in these baths. They entail no labor, scouring or burnishing, requiring merely to be wiped out with a sponge to be thoroughly cleaned.

Interested parties are invited to visit our showrooms and examine these and other sanitary appliances.

BUILDING INTELLIGENCE.

(Houses Continued.)

\$8,000; also brick dwell., 118 East Montclair St.; \$3,600.
Nutt & Clark, 6 three-sty brick dwells., 218-228 John R. St.; \$20,000; also 10 brick dwells., and 5 brick stores, 576-84 Michigan Ave.; \$33,000.
Eddington, Pa.—Plans are being prepared for a three-sty brownstone dwell., 32' x 60', to be built for Dr. George A. Stroup, opp. St. Francis Industrial School; stables will be built in rear of same lot; arch., Castor & Stearns, 4612 Frankford Ave., Philadelphia.
Fox Chase, Pa.—Township Line, s. s. e. Bustleton Pike, three-sty stone and frame dwell., 40' x 19', with back building, 20' x 22'; con., Joseph Ashley.
Germantown, Pa.—Emilen St., n. e. s. 140' n. w. Franklin St., three-sty stone dwell.; own. and bld., Wendell & Smith.
Haworth, N. J.—Two-sty and attic frame dwell., 28' x 40'; con., T. J. Neale, Oil City, Pa.; arch., S. Clifford Slocum & Co., 124 West 23d St., New York City.
Lenarch, Pa.—Newton Railroad, plans have been prepared by Frank A. Hays, architect, 421 Chestnut St., Philadelphia, for 6 dwells.
Manayunk, Pa.—Terrace St., n. e. s. 285' s. e. Shur's Lane, 3 two-sty stone and brick dwells, with back buildings; own., Thomas S. Boone, 123 Gay St.
Newark, N. J.—Two-sty frame dwell.; own., Mrs. Ida G. Ward; arch., Chas. P. Baldwin.
A dwell. will be built for Anthony F. Smith; about \$11,000; arch., Henry Kleener.
New Britain, Conn.—Winthrop St., frame dwell., 32' x 48'; own., Clayton A. Parker; bld., John Kunz, Jr.
West Main St., frame dwell., 35' x 50'; \$7,000; own., W. L. Morgan; arch., F. D. Moon; bld., B. H. Hibbard.
Fine St., frame dwell.; own., A. J. Sloper; bld., B. H. Hibbard.
Chestnut St., frame dwell.; own., R. Bancroft; arch., F. Irwin Davis.
New York, N. Y.—One Hundred and Thirty-seventh St., s. w. cor. Madison Ave., two-sty brick dwell. flat tin roof, 24' x 68', 28' high; \$5,000; own., Henry Bartel, 135th St., cor. Madison Ave.; arch., George S. Drew, Jr., 217 West 125th St.
One Hundred and Fifty-sixth St., s. s. 175' e. Prospect Ave., three-sty brick and frame dwell., flat tin roof, 25' x 54', 35' high; \$5,500; own., Elmita M. Dickerson, 301 West 21st St.; arch., Warren C. Dickerson, 149th St. and 3d Ave.
Van Corlear Pl., s. s. 275' e. Wicker Pl., three-sty stone and frame dwell., peak shingle roof, 21' x 40', 30' high; \$3,100; own., P. V. Tunney, 114 West 16th St.; bld., Richard Alexander, Marble City.
Seventh Ave., w. s. 75' n. 132d St., three-sty brick dwell., flat tin roof, 25' x 70', 36' high; \$10,000; own., Augustus N. Van Raden, 20 King St.; arch., John C. Burne, 101 West 42d St.
Third Ave., w. s. 402' n. 169th St., 2 three-sty stone and frame dwells., flat "Stewart's Patent Canvas Centre" roofs, 25' x 59', 39' high; \$3,500; own., Stabler & Ferris, 355 West 145th St. and 40 West 90th St.; arch., Richard R. Davis, 247 West 125th St.
Summit St., 573' e. Anthony Ave., three-sty brick

BUILDING INTELLIGENCE.

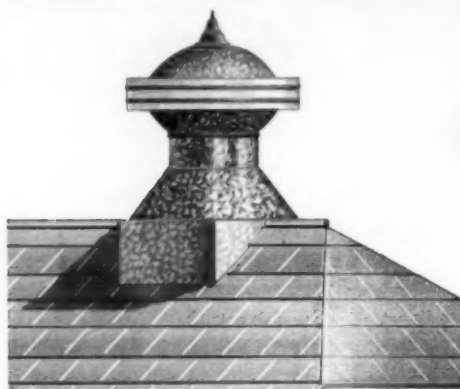
(Houses Continued.)

and frame dwell., peaked shingle roof, 20' x 40', 38' high; \$3,500; own., Peter A. Johnson, 1270 Second Ave.; arch., Nils E. Liljenberg, 165 East 34th St.
Ninety-fourth St., s. s. 160' e. West End Ave., 8 five-sty brick dwells., mansard and flat slate and tin roofs, 15' x 16' x 64', 57' high; \$112,000; own., Lewis P. Judson, 1225 Madison Ave.; arch., Clarence True, 1102 West 81st St.
Overbrook, Pa.—Drexel Road, near Upland Ave., three-sty stone dwell. with back building; bld. and managers, Wendell & Smith.
Overbrook Ave., e. City Ave., three-sty stone dwell. with back building; bld. and managers, Wendell & Smith.
Philadelphia, Pa.—Margaretta St., s. w. cor. Tackawanna St., 10 two-sty brick dwells.; con., Frank Ruckle, 1412 Deal St.
Susquehanna Ave., n. w. cor. 32d St., 6 three-sty brick and stone dwells. with back buildings; own., James H. Stevenson & Son, Diamond St. and Ridge Ave.
Selig St., s. s. w. Leverington Ave., two-and-one-half-sty frame and brick dwell.; con., William H. Eddleman, 480 Green Lane, Rox'b.
Broad St., w. s. a Venango St., 3 three-sty brick dwells. with back buildings; con., W. A. Margerem, 924 Mount Vernon St.
Franklin St., w. s. n. Waking St., 2 two-sty brick dwells.; own., James S. Scoope, 5006 Franklin St.
F Ave., s. 78th St., two-sty frame dwell.; bld., Geo. B. Heath, Ewing Ave. and 88th St.
Heston St., s. s. e. 52d St., 9 two-sty brick and stone dwells. with back buildings; own., George W. Sherman, 5528 Oxford St.
Louden St., s. s. 50' w. Carnae St., three-sty brick and frame dwell. with back building; con., McLaughlin & McNamara, 3887 Clinton St., Nicetown.
Chestnut Ave., s. s. w. 30th St., two-sty stone dwell. with back building about \$14,000; own., Chancellor C. English; con., William J. Gruhler, 46 Herman St.
Fitzgerald St., n. and s. from 11th to 12th Sts., 37 two-sty brick dwells. with back buildings; own., Young & Bros., 2303 40th 12th St.
Frankford Ave., Nos. 2438-42, 3 three-sty brick and stone dwells. with back buildings; con., Michael O'Rourke, 5834 Frankford Ave.
Como St., s. w. cor. Hancock St., 3 two-sty brick dwells. with back buildings; own., F. W. Smaltz, Cambria St., n. e. cor. American St.
Earp St., n. s. w. 26th St., 20 two-sty brick dwells.; con., W. A. Margerem, 924 Mount Vernon St.
Tasker St., s. e. cor. 2d St., three-sty brick dwell. with shop; con., Mathias Kerstulja, Meroy St., n. e. cor. Front St.
East Chelton Ave., No. 211, two-sty brick dwell. with back building; con., J. D. Caldwell, 201 East Chelton Ave.
Forty-third-and-a-half St., e. s. a Brown St., 14 two-sty brick dwells. with back buildings; own., Alfred C. McGill, 236 Pine St.
Clearfield St., n. s. e. Amber St., two-sty brick dwell. with back building; con., Murphy & Carr, 2018 Clementine St.
Wingate and Cottage Sts., three-sty stone dwell. with back building; con., James G. Meehan, 3225 Delaware Ave., Holmesburg.
Dean St., w. s. below Tasker St., 6 two-sty stone

BUILDING INTELLIGENCE.

(Houses Continued.)

and brick dwells.; own., James McKinney, 1649 South 13th St.
Elm Ave., n. s. above 81st St., two-sty brick dwell.; con., Joseph W. Anderson, Island Road and Eastwick Ave.
Girard Ave., n. s. w. 41st St., 6 three-sty brick dwells. with back buildings; own., Joseph A. Virkler, 1008 Belmont Ave.
South Nineteenth St., Nos. 1911-15, 3 two-sty brick dwells. with back buildings; own., William Seeburger, 1256 South 22d St.
Almond St., n. w. s. w. Lefevre St., two-sty brick dwell.; con., Lewis Ahleis, 4489 Salmon St.
Greenwich St., No. 122, two-sty brick dwell.; con., Streeton & Shafer, 1744 South 3d St.
Mantua Ave., s. w. s. bet. 37th and 38th Sts., 14 two-sty brick dwells. with back buildings; own., W. H. H. Achuff, 779 North 38th St.
Thirty-eighth St., e. s. below Mantua Ave., 2 three-sty brick dwells. with back buildings; own., W. H. H. Achuff, 779 North 38th St.
Stamper's Lane, n. s. below Oregon Ave., two-sty frame dwell.; own., James Hasson, Stamper's Ave., below Oregon Ave.
Twenty-sixth St., w. s. n. York St., 10 two-sty brick dwells. and 1 store and dwell.; agt., Ed. O. Roth Jr., 2033 North 29th St.
Toga St., s. s. e. 10th St., two-sty brick dwell. with back building; con., Henry G. Scheetz, 2633 Germantown Ave.
Belgrade St., w. s. Ann St., two-sty brick dwell. with back building; own., F. Boyce, 2725 William St.
Indiana St., s. e. cor. Palethorp St., 3 two-sty brick dwells. and 1 store and dwell. with back buildings; bld., T. W. Smaltz, n. e. cor. Cambria and American Sts.
Warrington Ave., e. s. w. 47th St., 4 three-sty brick dwells.; con., James D. Arthur, 223 Levant St.
Esher St., e. s. 37' s. Washington Ave., three-sty brick dwell. with back building; own., Charles D. Hill, 1511 North 27th St.
Twenty-ninth St., e. s. n. Herman St., 5 two-sty and 1 three-sty brick dwells.; bld., William F. Albrecht, 3008 Diamond St.
Fletcher St., n. s. w. 29th St., two-sty brick dwell. with back building; bld., Wm. F. Albrecht, 3008 Diamond St.
Chestnut and Forty-fifth Sts., Pompeian brick dwell., limestone trimmings; con., Gibson & Co.; arch., Robert K. Marple, 708 Walnut St.
Willow and Harrison Sts., three-sty brick dwell., 40' x 50', stone trimmings; arch., Castor & Stearns, 4642 Frankford Ave.; own., Harry B. Dewey.
Pittsburgh, Pa.—Marchand St., e. e. Two cementine dwells.; about \$11,000; own., Rob't McKay; arch., J. E. Allison, rooms 713-14 Penn Building.
Pottsville, Pa.—Three-sty brick dwell. for Rev. S. Pantismiss, Rector of St. Joseph's Roman Catholic Church at Mahanoy City; arch., W. D. Hill.
Providence, R. I.—Washington St., s. s. Knight St., 2 two-and-one-half-sty frame dwells.; \$4,000 each; own., Heirs of John A. Angell Estate; arch., Martin & Hall; bld., Allan McDonald.
Wendell St., two-and-one-half-sty frame dwell.; \$3,700; own., Clarence F. Burgess; bld., Hopkins & Sweet.
Irving Ave., cor. Arlington Ave., two-and-one-half-sty frame dwell.; \$4,500; own., Chas. A. Pettie



The Proverbial Cucumber

is not cooler than a

HOUSE, HALL, CHURCH OR FACTORY

that is ventilated by the

GLOBE VENTILATOR.

Send for Circular on the Subject.

GLOBE VENTILATOR COMPANY,
TROY, NEW YORK.

Put into the White House by the U. S. Government.

SEALS WITH OR WITHOUT WATER

CUDELL
Anti-Siphon Trap

CUDELL TRAP
S. I. S. I. S.

For venting, use vent-top. For venting, use vented outlet.

F. E. CUDELL'S
PATENT SEWER-GAS AND BACK-WATER TRAP.
For Wash-Bowls, Sinks, Bath and Wash-Tub
West Cleveland, O.

BUILDING INTELLIGENCE.

(Houses Continued.)
and wife; arch., James Shaw, Jr.; bld., Thomas B. Ross & Son & E. A. Paris & Co.
Blackstone St., two-and-one-half-st'y frame dwell.; \$5,200; own., Mrs. Nellie K. Aely; bld., John Gray & Co.
Toyle and East Aves., two-and-one-half-st'y frame dwell.; \$5,000; own., Thos. F. Gilbane.
East Ave., two-and-one-half-st'y frame dwell.; \$5,000; own. and bld., William Gilbane; arch., Stone, Carpenter & Wilson.
Wayland Ave., near Angell St., three-st'y frame dwell.; \$7,000; own., Richard H. Jackson; arch., W. H. Colwell; bld., Henry M. Horton.
Lloyd St., two-and-one-half-st'y frame dwell.; \$6,000; own., Joseph T. Day; arch., F. J. Sawtelle; bld., Thos. B. Ross & Son and Hathaway & Douglas.
Douglas Ave., 2 two-and-one-half-st'y frame dwells.; \$4,000 each; own., H. Martin Brown; arch., James Shaw, Jr.; bld., Thos. B. Ross & Son and John K. Harris.
Public St., No. 236, two-and-one-half-st'y frame dwell.; \$4,000; own., George E. McClellan; bld., Jencks, Beach, Westcott & Cole.
Waterman St., n s near Gano St., two-and-one-half-st'y frame dwell.; own., Miss M. Helen Potter; arch., Martin & Hall; bld., Napoleon Rivard.
South Orange, N. J.—Two-st'y and attic frame dwell.; about \$15,000; own., H. W. Ferris; arch., Rosster & Wright, 49 Liberty St., New York City.
Summit, N. J.—Two-st'y frame dwell. will be built for Mrs. Halida Brewster; arch., T. W. Bower, 222 Market St., Newark.
Winthrop, Mass.—**Court Park Ave.**, two-and-one-half-st'y frame dwell., gambrel roof, 28' x 46'; own., D. P. Donald; arch., Willard M. Bacon; contract not let.
Pleasant St., two-and-one-half-st'y frame dwell., gambrel roof, 32' x 39'; \$4,000; own., G. Kent; bld., C. P. Stone; arch., Willard M. Bacon, Boston.
Worcester, Mass.—**Windsor St.**, two-st'y frame dwell.; own., Henry A. Cook; arch., Geo. H. Clemence; con. F. X. Faucher.
Knox St., one-and-one-half-st'y frame dwell.; own., J. R. Boyce; con., L. Larson.

MERCANTILE BUILDINGS.

Meriden, Conn.—**North Colony St.**, four-st'y brick and stone structure for stores and warehouses, 48' x 110'; own., J. F. Butler and Meriden Furniture Co.; arch., H. M. Jones; contract not let.

OFFICE-BUILDINGS.

Detroit, Mich.—John McEnhill, two-st'y brick office, 89 Rose St.; \$3,000.

PUBLIC BUILDINGS.

Philadelphia, Pa.—**Mintzer St.**, n w cor. Fairmount Ave., three-st'y brick police and patrol house with brownstone trimmings, 38' x 110'; con., M. McManus, 1416 Tioga St.

STABLES.

Boston, Mass.—**Elgin St.**, near South St., Ward 23, frame stable, 24' x 30'; own., W. C. Mitchell, 551 Tremont St.; bld., J. B. McKay.
Smyer Ave., near Pleasant St., Ward 24, frame stable, 26' x 40'; own., L. E. H. Jones; bld., G. A. Burrow.
Terrace St., near Heath St., Ward 22, 2 two-st'y frame stables, flat roofs, each 31' x 40'; own., Oscar Lefevre, 1419 Tremont St.
Russell St., near Bullard St., Ward 24, frame stable, 26' x 35'; own., F. B. Carleton, 78 Bowdoin St., Dorchester; bld., W. J. McNabb.
National St., Ward 15, two-st'y brick stable, flat roof, 30' x 40'; own., Carney Hospital; bld., J. J. Coon & Co.
Hartford, Conn.—**Ann St.**, two-st'y brick stable, 40' x 60'; own., Wm. C. Daly; arch., John J. Dwyer; contract not let.
Meriden, Conn.—**North Broad St.**, rustic stone stable, harness-room and carriage-house, 70' x 35'; own., Geo. M. Curtis; bld., H. Wales Lines Co.; arch., Cady, Borg & See, New York.
Philadelphia, Pa.—**Alder St.**, e s, n Ritner St., two-st'y brick stable; con., Fred A. Robinson, 938 Wolf St.

"THE CAST SINK MUST GO"

THE COLUMBUS WROUGHT STEEL SINK DISPLACES ALL OTHERS

PAINTED, GALVANIZED, ENAMELLED.

Send for descriptive circular and prices, to
The Kilbourne & Jacobs Mfg. Co.
Sole Manufacturers. — COLUMBUS, OHIO.

THE VAN VRANKEN FLUSH TANK.
For Sewers, Subsoil Disposal, etc.

For catalogues, discounts and other particulars, address
J. LELAND FITZGERALD,
437 STATE STREET, SCHENECTADY, N. Y.

BUILDING INTELLIGENCE.

(Stables Continued.)
North Twentieth St., No. 1793, one-st'y brick stable; con., Robert Watt, 1501 North 20th St.
Bridge St., No. 2007, two-st'y brick stable; con., C. P. Cotton, s e cor. William and Church Sts.
Fairview Ave., s e s, n e 86th St., two-st'y frame stable, Lansdown Ave., cor. 68th St.
Locust Ave., s e s, near Boyer St., two-st'y stable; con., Thomas Huston, Bockins St.
Freeland Ave. and Roxborough St., two-st'y brick stable; own., E. M. Boocock, Roxborough St. and Freeland Ave.
Alder St., e s, n Ritner St., two-st'y brick stable; own., Hugh McNeill, 1944 Passyunk Ave.
Worcester, Mass.—**Columbus St.**, two-st'y frame stable; own., A. G. Estabrook; con., W. E. Putnam.

STORES.

Brooklyn, N. Y.—**Jerome St.**, n w cor. Repose Pl., two-st'y frame store and dwell., 20' x 60', tin roof; \$3,600; own., Tony Vollkommer, 220 Bushwick Ave.; arch., E. Shrempf, 496 Bushwick Ave.
Chicago, Ill.—**J. C. & K. D. McDonald**, 3 four-st'y stores and flats, 183-187 North Halsted St.; \$35,000.
The State Safety Co., seven-st'y store and flats, 273-279 State St.; \$150,000.
W. J. Prendergast, four-st'y store and flats, 5917 State St.; \$10,000.
W. Rundle, three-st'y store and flats, 9703 Commercial Ave.; \$5,000.
A. Cockerberg, two-st'y store and flats, 1048 South Lincoln St.; \$4,300.
E. Schmitz, two-st'y store, 755 Davis St.; \$3,000.
Detroit, Mich.—**Chas. Schaible**, one-st'y brick store, 13 Willis Ave.; \$4,000.
Andrew Clark, six-st'y brick store, 108-12 West Larned St.; \$40,000.
Philadelphia, Pa.—**South St.**, s w cor. 13th St., three-st'y fancy brick store, 22' x 58'; con., G. L. Harvey; arch., J. Franklin Stueckert, 49 North 13th St.
Columbia Ave., n e cor. 9th St., four-st'y brick store and dwell.; con., William J. Welsh, 3521 North 15th St.
Lansdown Ave., s w cor. Brown St., 4 three-st'y brick stores and dwells.; own., Harry T. Saunders, 230 North 22d St.
Thirteenth St., w s, s Rockland St., two-st'y frame store and dwell. with back building; bld., Benjamin Walker, 3953 Germantown Ave.
Twenty-ninth St., e s, n Herman St., three-st'y brick store and dwell.; bld., William F. Albrecht, 3008 Diamond St.

TENEMENT-HOUSES.

Boston, Mass.—**Malbon Pl.**, Ward 19, 5 three-st'y frame tenements, flat roofs, each 18' x 32'; own., Sarah B. Parker; arch., Saml. D. Kelly; contract not let.
Fulcon St., near Meridian St., Ward 1, three-st'y frame tenement, flat roof, 27' x 87' 6"; own., Joanna Hamilton; bld., J. B. Hamilton.
Harriam Ave., Nos. 890-891, Ward 20, 3 four-st'y brick tenements, flat roofs, each 21' 9" x 46'; store on first floor of 890; own. and bld., O'Toole & Vose, Blue Hill Ave.
New York, N. Y.—**Caroline St.**, No. 48, six-st'y brick tenement, flat tin roof, 18' x 65', 59' high; \$13,000; own., Franz Zeigler, 40 Carmine St.; arch., M. L. Emery, 64 Bible House.
One Hundred and Thirty-third St., n s, 80' e Trinity Ave., 6 three-st'y brick tenements, flat tin roofs, 20' x 60', 35' high; \$42,000; own., Aurelia Schwarzier, 1073 Fifth Ave.; arch., Edward Wenz, 1491 Third Ave.

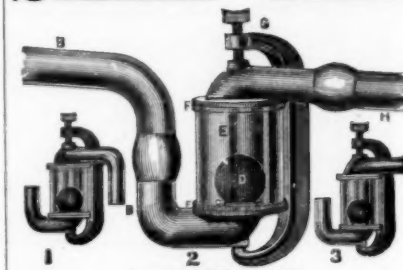
WAREHOUSES.

Chicago, Ill.—**F. J. Ryan**, six-st'y brick warehouse, 310 Fifth Ave.; \$6,300.

MISCELLANEOUS.

Boston, Mass.—**Mt. Vernon St.**, two-st'y brick building for manufacturing purposes, pitch roof, 54' x 150'; own. and bld., Bay State Gas Co.
National St., Ward 15, one-st'y brick building, 20' x 38', for a morgue; own., Carney Hospital; bld., J. J. Coon & Co.
Brooklyn, N. Y.—**Central Ave.**, s e cor. Hart St.,

BENNOT SYPHON TRAP.



Patented Feb. 13, 1883.

WITHOUT EXCEPTION THE
BEST
IN THE MARKET.

MANUFACTURED ONLY BY

HAINES, JONES & CADBURY CO.,
1136 Ridge Avenue,
PHILADELPHIA, PA.
Prices reduced, Send for New Circular.

BUILDING INTELLIGENCE.

(Miscellaneous Continued.)

two-st'y frame bowling-alley and lodge-room, 25' x 101' 10", tin roof; \$5,000; own., W. Follner, Central Ave. and Hart St.; arch., F. Holmberg, 1124 Myrtle Ave.
Detroit, Mich.—**R. E. Roseman**, brick club-house, 126-30 Sherman St.; \$15,000.
Henry Carew & Co., 2 two-st'y double brick barracks, Fort Wayne Military Reservation; \$89,000.
Ipswich, Mass.—Two-st'y frame parish house, pitch roof, 38' x 60'; own., Church of the Ascension; arch., Willard M. Bacon, Boston; contract not let.
Media, Pa.—A club-house to cost about \$8,500 will be built for the Media Club; con., Joseph Seal.
Philadelphia, Pa.—**Powellton Ave.**, n w cor. 40th St., three-st'y stone, brick and iron back building; con., Hartman Grau, 655 Preston St.
Musgrave St., n e s, s e Locum St., one-st'y green-house, 10' x 160'; own., Charles C. Meahan, Locum and Musgrave Sts.
Washington Ave. and Twenty-fourth St., 3 one-st'y brick and steel buildings, 40' x 215', 40' x 112' and 40' x 288'; con., Jacob R. Jordan, 905 Walnut St.
Greenwich Point, one-st'y brick boiler-house, 39' x 22', and stack; con., James Turner, 1644 North 13th St.
Knight's Road, two-st'y stone and frame barn, 64' x 40', with back buildings, 30' x 30'; con., G. Dallas Wagner, Andalusia, Pa.
Providence, R. I.—**Broad St.**, cor. Claverick and Foster Sts., four-st'y brick building for convent; \$100,000; own., Sisters of Mercy; arch., Martin & Hall; bld., Wm. Gilbane & Bro.
North Main St., s e cor. Lippitt St., two-and-one-half-st'y frame parish house; own., Church of the Redeemer; arch., Howard K. Hilton.
Weybosset, Orange and Peck Sts., five and two-st'y brick buildings; \$50,000; own., Edward Studley; arch., George W. Cady & Co.; bld., N. B. Horton & Son.

PROPOSALS.

CAR-BARN, ETC.

[At Pottsville, Pa.]
Proposals are wanted until August 9, for a car-barn, machine shop and office-building for the Schuylkill Electric Railway Co. Address CHARLES P. KRUEG, architect, as above. 971

ENGINE-HOUSE, ETC.

[At New York, N. Y.]
Proposals are wanted until August 22, for an engine and boiler house, tower and chimney for high service works at the new aqueduct. Address MICHAEL T. DALY, Commissioner of Public Works, as above. 973

HOSPITAL BUILDINGS.

[Near Massillon, O.]
Proposals are wanted until August 9, for several new buildings for the Massillon State Hospital. Address YOST & PACKARD, architects, Columbus, O. 971

fire-proof Building.**RARITAN HOLLOW AND POROUS BRICK CO.,**

— MANUFACTURERS OF —

Hollow Fire-Clay and Porous Terra-Cotta Bricks

of Every Description, for Fireproof Buildings.

BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.

Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.

Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.

HENRY MAURER & SON,

Manufacturers of

FIRE-PROOF BUILDING MATERIAL

Of every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.

Porous Terra-Cotta, Fire-Brick, etc., etc.

Works, MAURER, N. J. Office and Depot, 420 EAST 23d STREET, New York.

Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."

**C. PARDEE
WORKS,**Manufacturers All Kinds Fireproof Building Materials, etc.
Perth Amboy, N. J. See ad. on page XX.**PIONEER FIREPROOF
CONSTRUCTION CO.**

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile AND Porous Terra-Cotta**FOR FIREPROOFING BUILDINGS.**

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

**TO ARCHITECTS,
BUILDERS
AND OWNERS.****MINERAL WOOL,**As a Lining in Walls and Floors for preventing the
ESCAPE OF WARMTH AND THE DEADENING OF SOUND.**AMERICAN MINERAL WOOL CO.**

Lessee of

Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N.Y. City.

Roebling STANDARD Wire Lathing**FIREPROOF—DURABLE—ECONOMICAL**Pays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures
a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three
public tests—detailed accounts of which will be mailed to any address upon request.**THE NEW JERSEY WIRE CLOTH COMPANY,
TRENTON, N. J.****Building Stones.****J. P. FALT & COMPANY,**

Quarrymen & Miners of

RED SANDSTONE.

Contractors for CUT-STONE WORK.

Proprietors of Carlisle Quarries, Springfield, Mass.
Prices for rough stone furnished on application,
and estimates made for cut-stone work to be delivered
at any railroad point. Correspondence solicited.
Send for samples.**BOSTON FIRE-BRICK WORKS.****FRONT BRICK**BUFF, BROWN, MOTTLED YELLOW,
GRAY, OLD GOLD AND
OTHER COLORS.**ARCHITECTURAL
TERRA-COTTA**

In all its varied colors and forms.

FISKE, HOMES & CO.,

MANAGERS,

Factories on Federal Street and
at South Boston.

Office 164 Devonshire St., Boston.

Times Building, Park Row, New York.

927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.

SOLE OWNERS AND MANUFACTURERS OF

J. G. MERRILL'S PATENT

SALAMANDER

Fire-Proof Composition

FOR BUILDINGS.

Used as Lining between
Floors, and upon Walls,
Ceilings, Elevator and
Light shafts, Boiler Rooms,
Doors, Shutters, etc. It is
Air, Dust, and Vermin
Proof, and a Sound-

Headener.

Office, 166 Devonshire Street, BOSTON.

A. I. HODDER, Pres.

CHAS. T. BAKER, Treas.

W. D. LOMBARDO, Gen. Mgr.

Representatives in New York City

Representatives in New York City



For estimates on

ASPHALT**WORK**of every descrip-
tion apply to Man-
ager,

T. Hugh Boorman,

N. Y. Mastic Works, 35 Broadway, N. Y.

Asphalt Mine Owners in France, Sicily, etc.

The Temporary BinderProvided by us will keep your copies of the American
Architect in PERFECTLY uninjured condition.

Price \$1.25 pos. paid.

Massachusetts Material-Men and Contractors.

ARTIFICIAL STONE.	FIREPROOFING.	HEATING CONTRACTOR.	PAPIER MACHÉ.
SIMPSON BROS. 166 Devonshire St. Boston, Mass.	BOSTON FIREPROOFING CO. 166 Devonshire St. Boston, Mass.	W. E. FLORENCE, 247 Pynchon St. Boston, Mass.	CONLAN & MAYBECK, 65 Warcham St. Boston, Mass.
BUILDING CONTRACTORS.	FURNACES.	IRON WORK. (Building)	PRINTING.
LITTLEFIELD BUILDING CO. Incorporated. Room 57, 166 Devonshire St. Boston, Mass.	CYRUS CARPENTER & CO. 44 Hanover St. Boston, Mass.	R. F. HAWKINS' IRON WORKS, Springfield, Mass.	S. J. PARKHILL & CO. 218-226 Franklin St. Boston, Mass.
CARVERS, MODELLERS.	GRANITE.	MANTELS. (Wood)	SASH CORD.
JOHN EVANS & CO. 77 Huntington Ave. Boston, Mass.	GRANITE RAILWAY CO. 166 Devonshire St. Boston, Mass.	J. W. BAILEY & SONS CO. 14 Charlestown St. Boston, Mass.	SILVER LAKE CO. 78 Chauncy St. Boston, Mass.
ELECTRIC WORK.	HEATING. (Air & Water)	MASON CONTRACTORS.	SLATE. (Roofing)
BLODGETT BROS. & CO. 383 Federal St. Boston.	MAGEE FURNACE CO. 30-3 Union St. Boston, Mass.	THOMAS J. LYONS, 166 Devonshire St. Boston, Mass.	H. H. MATHEWS, 178 Devonshire St. Boston, Mass.

Bricks and Terra-Cotta.

HYDRAULIC BRICK,
PLAIN AND MOULDED
OF ANY COLOR.
RED, BUFF, GRAY, BROWN,
PINK, MOTTLED, GRANITE.

Total Annual Capacity, 100,000,000.

HYDRAULIC-PRESS BRICK CO.,
ODD FELLOWS' BUILDING,
ST. LOUIS, MO.

PERTH AMBOY
TERRA-COTTA COMPANY,

PERTH AMBOY, NEW JERSEY.

OFFICE, 289 Fourth Ave., NEW YORK.

PHILADELPHIA
OFFICE,
INEXCEL BLDG.

BOSTON AGENTS,
WALDO BROS.,
88 Water Street.

TIFFANY PRESSED BRICK CO.,

Manufacturers of

Pressed and Enamelled Brick,

Plain and Ornamental,

403 Chamber of Commerce Bld'g,
CHICAGO.

"Architects" SPECIFY **LAFARGE'S CEMENT**

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,

Importer and Sole Agent,

81 and 83 Fulton St., N. Y.

Architects, Builders, and others will confer a favor on the Publishers by mentioning "The American Architect and Building News" when sending for circulars or corresponding with parties advertising in these columns.

GOETZ BOX ANCHOR

SELF RELEASING AND PREVENTS
DRY ROT IN TIMBER.

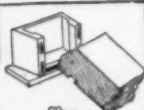
GOETZ POST CAP

STRONGEST OF ALL AND YET
SELF RELEASING.

GOETZ JOIST HANGER

WROUGHT IRON MACHINE MADE.
STRONGEST AND CHEAPEST.
BORE TWO HOLER. NO MORTISING.

GOETZ BOX ANCHOR CO.,
72 STATE ST., NEW ALBANY, IND.



SEND
FOR
CATALOGUE.

**NEW YORK
ARCHITECTURAL TERRA COTTA
COMPANY.**

OFFICE,
38 PARK ROW,
New York City.

WORKS,
LONG ISLAND CITY,
New York.

GENERAL AGENTS FOR NEW ENGLAND:

BOSTON FIRE BRICK COMPANY,
Fiske, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.

STEPHENS, ARMSTRONG & CONKLING,
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, Philadelphia, Pa.

—INDIANAPOLIS—
TERRA-COTTA CO.

Works: Brightwood, Ind.

ESTIMATES ON SPECIAL DESIGNS PROMPTLY
FURNISHED. WRITE FOR CATALOGUE
AND DISCOUNTS.

SEMI-GLAZE OR DEAD-FINISH.
ALL COLORS.

**POMPEIIAN,
BUFF AND RED PRESSED,
ALSO ORNAMENTAL**

FACE BRICK MANTEL.

CAPACITY, 100,000,000 PER ANNUM.

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

**FRONT BRICKS
AND
TERRA-COTTA**

—IN OVER TWENTY COLORS.—

Chimney Flue Linings, Chimney Tops, Drain
Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,
86 WATER STREET. - BOSTON.

**THE
Northwestern Terra-Cotta Co.**
Manufacturers of

Architectural Terra-Cotta.

WORKS & MAIN OFFICE:
Cor. Clybourn & Wright-
wood Avenues.

CITY OFFICES:
Room 1118 Rookery Bldg.
cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for
Catalogue and Samples.

BRICK OF ANY COLOR
AND
OF ALL SHAPES.

BRICK FIREPLACES



NO. 3 SPANISH.

BALTIMORE ROOFING TILE CO.

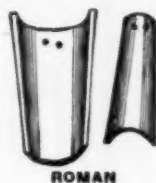
BURNS, RUSSELL & CO., Proprietors,

535 Columbia Avenue, Baltimore, Md.,

MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other
styles of Clay Roofing Tiles in all colors,
glazed or unglazed.

CATALOGUE ON APPLICATION.



ROMAN

C. PARDEE WORKS, Perth Amboy, N. J.
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIRE-PROOF BUILDING MATERIALS, ETC.



Giant Metal Sash Chain.

MADE ONLY BY

THE SMITH & ECCE MANUFACTURING CO.,
BRIDGEPORT, CONN.

The most reliable and economical article in the market for the purpose. GREAT TENSILE STRENGTH. Does not corrode; does not lose its vitality by continuous use, or exposure to the elements; runs over any pulley, and gives satisfaction wherever it is used. Fixtures made of steel wire, is very simple and easily applied. Prices very low. Samples sent to any architect in the United States, free, on application. Now in use in State House, Hartford; Providence City Hall; Singer Building, Chicago; J. C. Flood's, Menlo Park, Cal.; Vancouver and Florence Flats, New York; Boreel Building, New York; new State, War and Navy Departments, and Patent Office, Washington, D. C.; Herald Building, Boston, and very many other fine buildings in all parts of the United States.

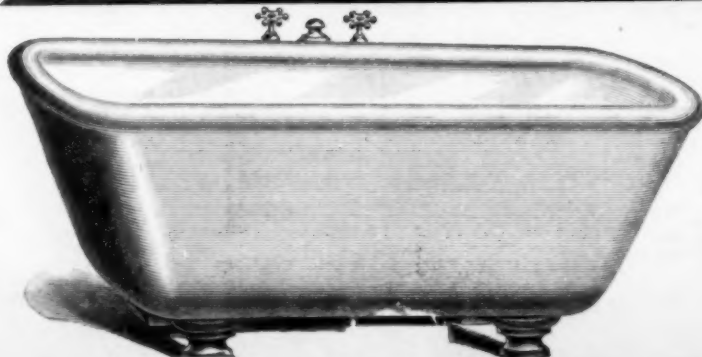
DIXON'S AMERICAN GRAPHITE PENCILS

FOR DRAUGHTING.

By mentioning *American Architect and Building News*, and sending 16 cents in stamps, you will receive an assortment of draughting pencils worth double the money, and unequalled for smooth, tough and uniform leads.

JOSEPH DIXON CRUCIBLE CO. - JERSEY CITY, N. J.

Porcelain Bath Tubs



"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.

"SLUICE" Syphon Jet Water Closet.

MINTON'S TILES

For Bathrooms, Halls and Vestibules; Glazed,
Unglazed and Enamelled.

MILLER & COATES, 279 PEARL STREET
NEW YORK.

260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.

THE ONLY MEDAL AND AWARD FOR SHINGLE STAINS
At the World's Columbian Exposition
HAS BEEN AWARDED TO
DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.

FARRAND & VOTEY ORGAN COMPANY,
ORGAN BUILDERS.

LARGEST AND MOST COMPLETE WORKS IN THE COUNTRY.

CORRESPONDENCE SOLICITED.

BRANCH OFFICES { 1945 Park Avenue, N. Y.
269 Dearborn Street, Chicago.

Works and Main Office at Detroit, Michigan.

PEERLESS COLORS FOR MORTAR.

BLACK, RED, BROWN, BUFF. NEW COLORS, MOSS GREEN, ROYAL PURPLE, FRENCH GREY, POMPEIIAN BUFF,
COLONIAL DRAB.
THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.

ALSO
PLASTER ARCHITECTURAL ORNAMENTS FROM ORIGINAL AND SPECIAL DESIGNS.

SAMUEL H. FRENCH & CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.

NOW READY
PARTS III AND IV OF
"NORMAN MONUMENTS OF PALERMO AND ENVIRONS."

PASSENGER
AND
FREIGHT
ELEVATORS

Morse, Williams & Co.,
Electric and Hydraulic High Speed
Passenger Elevators.
Steam, Belt and Hand Power Freight Elevators.
1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.
19 Pearl St., Boston. 82 Church St., New Haven.
714 Omaha Building, Chicago. 1116 E. St. N. W., Washington, D. C.

Decorative
Glass and
Sand Blast
Work.

THE MATTHEWS DECORATIVE GLASS CO.
MANUFACTURERS OF
ORNAMENTAL GLASS in Sheets or from Special Design
By the SAND-BLAST and other Patented processes.
CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,
Gold and Silver Embossed, and Transparent Glass Signs. Marbleized Glass
for Ceilings. Estimates promptly furnished on application.
328-330 E. 26th Street, New York City.

[See Alphabetical Index on page vi for Pagination.]

Classified Advertisements.

[Advertisers can be indexed only under a single head free of charge].

- Annunciators.**
W. R. Ostrander & Co., New York.....
- Architects.**
Bailey & Truett, Philadelphia, Pa.(mon)
F. E. Kidd & Co., Denver, Col.
- Architect's Materials.**
Frost & Adams, Boston.....(saw)
Architectural Iron Work.
Globe Iron Works, Chicago, Ill.....
- Artificial Lamps.**
Havlan & H. Hingworth Co., Wilmington, Del.....
- Art Metal Work.**
Ludlow & Sons, St. Louis, Mo.(mon)
Asbestos Felt & Boilings Coverings.
J. W. Johns Mfg. Co., New York.....
- Asbestos Paint.**
H. W. Johns Mfg. Co., New York.....
- Asphalt.**
H. W. Johns Mfg. Co., New York.....
- Asphalt Roofing.**
Warren Chemical & Mfg. Co., New York.....
- Bastin Cloths.**
Stebbins Mfg. Co., Brighton, Mass.....(saw)
Bath-Tub.
Fred. F. Blachoff & Co., Chicago, Ill.....(mon)
Miller & Coates, New York.....
- Bells.**
J. L. Mott Iron Works, New York.....
Bells, Blake Bell Co., Boston, Mass.....
- Blue Prints.**
Spaulding & Moss, Boston, Mass.....(saw)
Boilers.
Babcock & Wilcox Co., New York.....
Babcock & Wilcox Co., New York.....
Wm. T. Comstock, New York.....
- Box Anchors.**
Goetz Anchor Box Co., New Albany, Ind.....
- Brick (Colored).**
Jarden Brick Co., Philadelphia, Pa.....
- Brick (Enamelled and Pressed).**
Tiffany Pressed Brick Co., Chicago, Ill.....
- Brick (Ornamental).**
Fleming Cement & Brick Co., New York.....(saw)
Hydraulic Press Brick Co., St. Louis.....
- Bricks.**
Waldo Bros., Boston.....
- Bronze and Brass Work.**
M. J. Power, New York.....
- Bronze and Brass Work.**
Paul E. Cabaret, New York.....
- Building Brick.**
Marey & Gardner, Palmer, Mass.....(saw)
Building Felt (Fire and Waterproof).
H. W. Johns Mfg. Co., New York.....
- Carpeting.**
John H. Gray, Sons & Co., Boston.....
- Ceilings (Metal).**
Barger Mfg. Co., Canton, Ohio.....(saw)
H. S. Northrup, New York, N. Y.....
- Cement.**
N. Y. Metal Ceiling Co., N. Y. City.....(saw)
Penn Iron Roofing & Corrugating Co. (Lima),
Philadelphia, Pa.....(mon)
F. O. Norton Cement Co., N. Y.....
- Cement.**
Allen's Cement Works, New York, N. Y. (saw)
Buckley Portland Cement Co., Bellefontaine,
Ohio.....
- Cement.**
James Brand, New York, N. Y.....
- Cement.**
Brooks, Shoolbridge & Co., New York.....
- Cement.**
Fleming Cement & Brick Co., New York.....(saw)
Johnson & Wilson, New York.....
- Cement.**
Lawrence Cement Co., New York, N. Y.....
- Cement.**
E. Thiele, New York, N. Y.....
- Chrome Steel Castings.**
Chrome Steel Works, Brooklyn, N. Y.(saw)
- Conductors (Water).**
Lamb & Butcher, Cambridge St., Mass.....
- Conservatories.**
Lord & Barnham Co.
Irvington-on-Hudson, N. Y.....
- Consulting Engineer.**
George Hill, New York, N. Y.....
- Contracting.**
Flynt Building & Construction
Co., Palmer, Mass.....
- Corruges.**
Samson Corrugate Works, Boston.....(saw)
- Correspondence School.**
School of Me-
chanics and Industrial Sciences, Scranton, Pa.....
- Crossed Stains.**
A. Cabot, Boston, Mass.....
- Coverings.**
H. W. Johns Mfg. Co., New York, N. Y.....
- Decorative Glass.**
Metallic Setting Co., Providence and Boston.....
- Decorators.**
L. Haberstroh & Son, Boston.....
- Door Knobs.**
J. Hardisty, New York, N. Y.....
- Door Hangers.**
Lane Bros. Knockknaps, N. Y.....
- Elevators.**
Elektron Mfg. Co., Springfield, Mass.....
- Elevators.**
Graves Elevator Co., Rochester, N. Y.....
- Elevators.**
Moore & Wyman, Boston.....
- Elevators.**
Morse, Williams & Co., Philadelphia.....
- Elevators.**
Oke Brothers & Co., New York.....
- Elevators.**
Penn. Elevator Engineering Co., Philadelphia.....
- Elevators.**
Standard Elevator Co., Chicago, Ill.....
- Elevators.**
Whittier Machine Co., Boston.....
- Fan (Ventilating).**
Huyett & Smith Mfg. Co., Detroit, Mich.....
- Fireproof Building.**
Henry Maurer, New York.....
- Fireproofing.**
American Fireproofing Co., Chicago, Ill.....
- Fireproofing.**
American Fireproofing Co., Boston, Mass.....
- Fireproof Lathing.**
Hayes Metallic Lathing, New York.....
- Fireproof Material.**
C. Purdie, Perth Amboy, N. J.....
- Floors (Inlaid).**
National Wood Mfg. Co., N. Y.....
- Flush Tanks.**
J. Leland Fitzgerald, Schenectady, N. Y.....
- Gas.**
Wm. R. Pitt, New York, N. Y.(mon)
- Glass (Etched and Ornamental).**
Mallard Armstrong & Co., New York.....
- Glass (Etched and Ornamental).**
Matthews Decorative Glass Co., New York.....
- Glass (Etched and Ornamental).**
McCully Glass Co., Chicago, Ill.....(mon)
- Glass (Etched and Ornamental).**
McCully Glass & Decorating Co., New York.....
- Grates, etc.**
A. Jackson & Bro., New York, N. Y.....
- Grates, etc.**
Wm. H. Jackson & Co., New York.....
- Greenhouses.**
Guthrie & Co., New York, N. Y.....
- Hardware.**
Vale & Towne Mfg. Co., Stamford, Ct.....
- Hardware.**
Vale & Towne Mfg. Co., Stamford, Ct.....
- Heaters (Steam and Hot Water).**
George H. Bell & Co., New York.....
- Heating and Ventilating.**
Smith & Anthony Stove Co., Boston.....
- Heating-Apparatus (Hot Water).**
Gurney Heater Mfg. Co., Boston.....(mon)
- Heating-Apparatus (Steam).**
American Boiler Co., Boston, Mass.....(saw)
Gorton & Laidlaw Co., New York.....(saw)
H. B. Smith Co., New York.....
- Heliotype Process.**
Heliotype Printing Co., Boston.....
- Hot-Blast Apparatus.**
Hayett & Smith Mfg. Co., Detroit, Mich.....
- Insulated Wire.**
W. R. Briley, New York, N. Y.(saw)
The Ontario Co., (Ltd.), New York, N. Y.(saw)
- Insurance.**
Continental Insurance Co., N. Y.(saw)
- Interior Decorations.**
Chicago Interior Decorating Co., Chicago, Ill.....
- Iron Work (Architectural).**
Belmont Iron Works, Philadelphia, Pa.....(saw)
Jackson Architectural Iron Works, N. Y.....
- Iron Work (Architectural).**
Pascall Rolling Mill Co., Paterson, N. J.....
- Iron (Galvanized).**
Anolis Iron & Steel Co., Pittsburgh, Pa.....
- Laundry Machinery.**
Troy Laundry Machinery Co., Troy.....
- Mail Chutes.**
Cutler Manufacturing Co., Rochester, N. Y.....
- Marble Mosaic.**
Aschlimann & Pollard, New York.....
- Marble Workers.**
Batterton, Set & Sons, New York.....
- Marble Workers.**
Robert C. Fisher & Co., New York.....
- Metal Lathing.**
Cincinnati Corrugating Co., Piquette, Ohio.....
- Metal Lathing.**
G. Hayes, New York.....
- Metal Lathing.**
Robert C. Fisher & Co., New York.....
- Metal Lathing.**
Paul E. Cabaret, New York.....
- Mineral Wool.**
American Mineral Wool Co., New York.....
- Mortar Colors.**
Samuel H. French & Co., Philadelphia.....
- Nurseries.**
C. G. Allen & Co., New York.....(saw)
- Organ Builders.**
Farland & Votey Organ Co., New York.....(mon)
- Paint.**
F. W. Davies & Co., New York.....(saw)
Joseph Dixon Crucible Co., Jersey City, N. J.....
- Paint.**
H. W. Johns Mfg. Co., New York.....
- Patent Lawyers.**
Hosson & Hosson, Philadelphia.....(saw)
- Photographers.**
J. W. Taylor, Chicago, Ill.....
- Plumbers.**
T. H. Duggan, Boston.....
- Pumps (Steam).**
H. M. Werthington, New York and Boston.....
- Ranges.**
L. A. Sheppard & Co., Philadelphia, Pa.....
- Refrigerators.**
McCray Refrigerator and Cold Storage Co.,
Kendallville, Ind.....
- Refrigerators.**
Wickes Refrigerator Co., New York, N. Y.....
- Rolling-Shutter.**
F. G. Wilson, New York.....
- Roofers.**
Berger Bros., Philadelphia, Pa.....
- Roofers.**
John Farquhar's Sons, Boston.....
- Roofers.**
James A. Miller & Bro., Chicago, Ill.....
- Roofing Materials.**
Cortright Metal Roofing Co., Philadelphia, Pa.....
- Roofing Materials.**
Thomas J. Hind, Boston.....
- Roofing Materials.**
Merchant & Co., Philadelphia, Pa.....(saw)
H. & G. Taylor Co., Philadelphia, Pa.....(saw)
H. & G. Taylor Co., Philadelphia, Pa.....(saw)
Thorn Shingle and Ornament Co., Phila., Pa.....
- Roofing Tiles.**
Baltimore Roofing Tile Co., Baltimore, Md.....
- Sanitary Supplies.**
Haines, Jones & Cadbury Co., Philadelphia, Pa.....
- Sanitary Supplies.**
Smith & Anthony Co., Boston.....
- Sash-Chain.**
Smith & Kane Mfg. Co., Bridgeport, Conn.....
- Sash-Cord.**
Samson Cordage Works, Boston.....(saw)
- School of Architecture.**
C. Powell Karr, New York, N. Y.(saw)
- Seamless Drawn Copper Range**
Boilers.
Hendolph & Clowes, Waterbury, Conn.....
- Sheet-Metal Work.**
J. S. Thorn, Philadelphia.....(saw)
- Shingle-Stains.**
S. Cabot, Boston.....
- Shutters.**
Dexter Bros., Boston.....
- Shutters.**
Clark, Bunnet & Co., New York.....
- Skylight Lights.**
T. H. Brooks & Co., Cleveland, Ohio.....(mon)
- Slings.**
Kilbourne & Jacobs Mfg. Co., Columbus, O.....
- Skylights, etc.**
G. Brinkhous, New York.....
- Skylights, etc.**
Paragon Construction Co., New York.....
- Skylights, etc.**
Fais & Young, Baltimore, Md.....
- Slates.**
Brownville Maine Slate Co., Worcester, Mass.....
- Snow Guard.**
Fink, Home & Co., Boston.....(mon)
- Steam Pipe Covering.**
Kearney & Mattison Co., Ambler, Pa.....
- Steel Lath.**
Central Expanded Metal Co.,
Pittsburgh, Pa.....(saw)
- Stone (Building).**
J. F. Felt & Co., Springfield, Mass.....
- Terra-Cotta.**
Fink, Home & Co., Boston.....
- Terra-Cotta.**
Indianapolis Terra-Cotta Co., Brighton, Ind.....
- Terra-Cotta.**
New York Architectural Terra-Cotta Co., N. Y.....
- Terra-Cotta.**
Firth Amboy Terra-Cotta Co., Chicago, Ill.....
- Traps.**
F. E. Cudell, Cleveland, O.....(saw)
- Valves and Packing.**
Jenkins Bros., New York.....
- Varnish.**
Murphy & Co., Newark, N. J.....
- Vault Lights.**
Dancy & Co., Chicago.....
- Vault Threshold.**
G. S. Clark, Philadelphia, Pa.....(quar.)
- Ventilation.**
Globe Ventilating Co., Troy, N. Y.....
- Wall Tie.**
J. B. Prescott & Son, Webster, Mass.....(saw)
- Wash Tubs.**
Kearney & Mattison Co., New York.....(saw)
- Water-Closet.**
Fred Ades & Co., New York, N. Y.(saw)
- Weather Vanes.**
J. W. Jones, New York, N. Y.....
- White Lead.**
National Lead Co., New York, N. Y.....
- Window-Line.**
Samson Cordage Works, Boston.....(saw)
- Wire Lathing, etc.**
Clinton Wire Cloth Co., Clinton, Mass.....
- Wire Lathing, etc.**
New Jersey Wire Cloth Co., Trenton, N. J.....
- Wood Carpet.**
E. B. Moore & Co., Chicago, Ill.....(saw)
- Wood Filler.**
Bridgeport Wood Finishing Co., New Milford,
Conn.....

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th ST.
NEW YORK CITY.

Designers and Manufacturers of...

MANTELS
OPEN FIREPLACES ..
GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 65 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.

PRIZE MEDALLISTS.

EXHIBITION OF 1862, 1866, 1867, 1873, AND ONLY AWARD AND MEDAL FOR
NOISELESS, SELF-COLLING STEEL SHUTTERS AT PHILADELPHIA,
1876; PARIS, 1878; AND MELBOURNE, 1881.

CLARK, BUNNETT & CO. (Limited)

Late CLARK & COMPANY,

ORIGINAL INVENTORS AND SOLE PATENTERS OF NOISELESS

Self-Colling, Revolving **STEEL SHUTTERS** Fire & Burglar Proof.
Also Improved Rolling Wood Shutters, and Clark's Patent
Metallic Venetian Blinds.

The BEST in the Market. Send for Catalogues, etc., to

162 and 164 West 27th St. - New York.

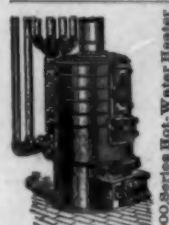
ALSEN'S PORTLAND CEMENT

(GERMAN.)

The Strongest, Finest Ground and Most Uniform
Cement Made in the World.

The Largest Works and Greatest Production.

U. S. OFFICE, 143 Liberty Street, NEW YORK.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

We invite Correspondence.
Send for Catalogues.

HEAD OFFICE: **Gurney Heater Mfg. Co.** 163 Franklin St., Cor.
Congress, Boston, Mass.

SELLING AGENCIES: JOHNSON & Co., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHSEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

Endorsed by the leading
Architects and Engineers.



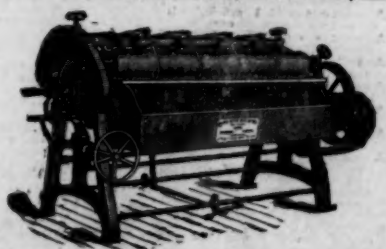
JAS. G. WILSON, Patentee and
Manufacturer,
74 West 23d St., New York.



N.J. STEEL & IRON CO.,
TRENTON, N.J.
IRON AND STEEL BEAMS
CHANNELS, ANGLES & TEES
GOOPER, HEWITT & CO.
NEW YORK.

TROY LAUNDRY MACHINERY CO.,
[LIMITED.]

FACTORIES: 648-650 Fulton St., Troy, N. Y.
308-405 Fifth Ave., Chicago, Ill.
SALESROOMS: 15 Warren St., New York.
561-563 Mission St., San Francisco, Cal.



Our line the largest and most complete in the world.

Send for Illustrated Catalogue Z.



80-Paged Illustrated Catalogue
of over 250 Designs of
Superior

**WEATHER VANES,
TOWER ORNAMENTS,
CHURCH CROSSES,
FINIALS, Etc., Etc.**

Mailed to any address for 3-cent
stamp—half the postage.

T. W. JONES, Manufacturer,
170-172 FROST ST., New York.



"THE WORLD'S FAIR EXTRA"
OF THE AMERICAN ARCHITECT.

Contains twenty gelatine prints of some of the Exhibition buildings and their details, already published
in the International Edition. Five of these prints are double-page plates, the others being single-page.

For sale at this office. Price, \$3.50.

This "World's Fair Extra" will be sent free to new subscribers to the International Edition of the
American Architect for 1894.

211 TREMONT ST., BOSTON.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen'l Agts.,
Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Masons' Materials. Send for Pamphlet.

CONTINENTAL INSURANCE COMPANY,
OF NEW YORK CITY.

Extract from statement made Jan. 1, 1894.

CASH CAPITAL - - - - - \$1,000,000.00
RESERVES for Insurance in force, etc. 3,856,375.95
NET SURPLUS - - - - - 1,576,585.38
POLICY HOLDERS' SURPLUS - - - - - 2,576,585.38
GROSS ASSETS - - - - - 6,433,171.33

SAFETY FUND POLICIES ISSUED.

F. C. MOORE, President, HENRY EVANS, Vice-President.
EDWARD LANNING, Secretary, CYRUS PECK, Treasurer.
WM. A. HOLMAN, Asst. Sec. R. J. TAYLOR, Man'gr Loss Dept.
46 Cedar Street, New York.

C. H. DUTCHER, Secretary Brooklyn Dept., Court
and Montague Sts., Brooklyn, N.Y.; J. J. McDONALD,
Gen'l Manager Western Dept.; GEO. E. KLINE, Asst.
to Gen'l Manager, Rialto Building, Chicago, Ill.; W.
S. DUYAL, Gen'l Manager Pacific Coast Dept.; F. O.
BARKMAN, Asst. to Gen'l Manager, 221 Pine St., San
Francisco, Cal.

RESPONSIBLE AGENTS WANTED.

THE AMERICAN ARCHITECT

AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. XLV.—No. 972.]

SATURDAY, AUGUST 11, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS.
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Ricker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE.
Louis De Coppel Berg.
PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.
COOPER INSTITUTE.
E. A. Miller.
E. F. Maurer.
INSTITUTE OF ARTIST-ARTISANS.
140 West 23d Street.
John Ward Stimson.
METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.
S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Truscott.
UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

[Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.]

CONSTRUCTION.

BERG, LOUIS D'G. Two Vols., each \$5.00
"Safe Building."
New York (66 Fifth Ave.): Macmillan & Co.
CHANDLER, F. W. \$10.00
"Construction Details."
Boston (211 Tremont St.): Heliotype Printing Co.
CLARK, T. M. \$3.00
"Building Superintendence." Oust.
New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts, \$2.00 each.
Architectural Rendering in Pen and Ink.
Boston (211 Tremont St.).
WARE, WILLIAM R., PROFESSOR, \$5.00
"Modern Perspective."
New York (66 Fifth Ave.): Macmillan & Co.

STYLES.

GOTCH, J. A., and W. T. BROWN 6 Parts, \$48.00
Four Parts now ready
"Architecture of the Renaissance in England."
New York (743 Broadway) Charles Scribner's Sons.

WHITTIER MACHINE CO., ELEVATORS,

53 STATE STREET - - BOSTON.
93 LIBERTY STREET, NEW YORK.
526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD
For all kinds of
PASSENGER AND FREIGHT ELEVATOR SERVICE.

OTIS BROTHERS & CO.,
NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,
ELEVATOR AND MACHINE WORKS,
COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.
STEAM AND HYDRAULIC,
For Freight and Passenger use.

ELECTRIC ELEVATORS. THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,
For passenger and freight service.
Large experience. Many in use.
First cost moderate.
Running Expense much less than Hydraulic.
Also makers of low-speed Perret Electric Motors and Dynamos.

General office and factory, Springfield, Mass.
NEW YORK OFFICE, 126 Liberty Street.
BOSTON OFFICE, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES,
For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate. References, Principal Architects and Decorators of New York.
AESCHLIMANN & PELLARIN,
37 CLINTON PLACE,
Between Broadway and University Place, New York.

SANITARY CONDITION OF
DWELLINGS examined by T. H. DUGGAN,
Plumber, 141 DARTMOUTH STREET, BOSTON.
Fine Plumbing Materials, First-class Workmanship.
Telephone call, Tremont No. 165.

THE F. O. NORTON CEMENT

Sustains the entire weight of the East River Bridge.
OFFICE, 92 BROADWAY, NEW YORK.

STANDARD ELEVATOR CO.,

HIGHEST GRADE

PASSENGER } ELEVATORS.
AND
FREIGHT }

OFFICE AND WORKS,

15th Street and Ashland Ave.,
Chicago, Ill.

PENN ELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.
PASSENGER AND FREIGHT ELEVATORS,
every description.
See our new Electric and Hydraulic before purchasing.
Works, Bloomsburgh, Pa.
Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.
GENERAL OFFICE, PALMER, MASS.
We contract to perform all labor and furnish all material of the different classes required to build complete
CHURCHES, HOTELS, MILLS, PUBLIC
BUILDINGS AND RESIDENCES.
Also for the construction of
RAILROADS, DAMS AND BRIDGES.

We solicit correspondence with those wishing to place the construction of any proposed new work under ONE CONTRACT, which shall include all branches connected with the work. To such parties we will furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO.,

STAINED GLASS & DECORATIVE WORK.
Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.
Sole Agents for
CLAYTON & BELL, GLASS STAINERS, LONDON.
61 Washington Square, South, New York, N. Y.

TIFFANY CLASS & DECORATING COMPANY

FURNISHERS & GLASS WORKERS DOMESTIC & ECCLESIASTICAL
DECORATIONS - GD - MEMORIALS
333 TO 341 FOURTH AVENUE - NEW YORK

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHERE & Co.),
Importers and Workers of
MARBLE, ONYX AND GRANITE,
425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

ROBERT C. FISHER & CO.,

Successors to FISHER & BIRD,
MARBLE AND GRANITE WORKS,
97, 99, 101 and 103 EAST HOUTON STREET,
Established 1830. NEW YORK

DO not be deceived.—The following brands of White Lead are still made by the "Old Dutch" process of slow corrosion. They are standard, and always Strictly Pure White Lead

- | | |
|-------------------------------------|--------------------------------------|
| "ANCHOR" (Cincinnati). | "JEWETT" (New York). |
| "ARMSTRONG & McKELVY" (Pittsburgh). | "KENTUCKY" (Louisville). |
| "ATLANTIC" (New York). | "JOHN T. LEWIS & BROS. CO." (Phila.) |
| "BEYMER-BAUMAN" (Pittsburgh). | "MORLEY" (Cleveland). |
| "BRADLEY" (New York). | "MISSOURI" (St. Louis). |
| "BROOKLYN" (New York). | "RED SEAL" (St. Louis). |
| "COLLIER" (St. Louis). | "SALEM" (Salem, Mass.). |
| "CORNELL" (Buffalo). | "SHIPMAN" (Chicago). |
| "DAVIS-CHAMBERS" (Pittsburgh). | "SOUTHERN" (St. Louis and Chicago). |
| "ECKSTEIN" (Cincinnati). | "ULSTER" (New York). |
| "FAHNESTOCK" (Pittsburgh). | "UNION" (New York). |

The recommendation of any of them to you by your merchant is an evidence of his reliability, as he can sell you ready-mixed paints and bogus White Lead and make a larger profit. Many short-sighted dealers do so.

FOR COLORS.—National Lead Co.'s Pure White Lead Tinting Colors, a one-pound can to a 25-pound keg of Lead, and mix your own paints. Saves time and annoyance in matching shades, and insures the best paint that it is possible to put on wood.

Send us a postal card and get our book on paints and color-card, free; it will probably save you a good many dollars.

NATIONAL LEAD CO., New York.



Unequaled for all purposes for which Portland Cement is used. Tests and Testimonials of Engineers, and "How to Use Portland Cement," sent free on application.

BUCKEYE PORTLAND CEMENT CO.,
BELLEFONTAINE, OHIO.

JUST PUBLISHED, Monumental Staircases

BEING NO. 2 OF A SERIES OF ARCHITECTURAL ODDS AND ENDS.

40 Gelatine Prints.

\$5.00 PER COPY.

For sale at this office,

211 Tremont Street. - Boston.

RITCHIE'S PATENT IMPROVED CORRUGATED Expanding Conductor.

— ALSO —

Stamped Corrugated Elbows & Shoes.



A No. 3 SHOE.

In these goods the public find, for the first time satisfactory expanding Elbows and Shoes, perfect in curve and free from unreliable and unsightly soldered joints.

LAMB & RITCHIE,
Cambridgeport, - - Mass.

GRAVES ELEVATORS

SAFETY, SPEED AND ECONOMY COMBINED

NEW YORK
92 & 94 LIBERTY ST.

BOSTON
93 STATE ST.

DETROIT
HODGES BUILDING.

ATLANTA, GA.
INMAN BUILDING.

GRAVES ELEVATOR CO.

ROCHESTER, N.Y.

SEND FOR CATALOGUE.

PORCELAIN LINED REFRIGERATORS
and Cooling Rooms under the Wickes System.
Mechanical Refrigeration under the Westinghouse System.
WICKES REFRIGERATOR COMPANY,
860 Broadway, N. Y.

PLANS FRAMED

And Supplies for Architects, Engineers, and Draughtsmen.
FROST & ADAMS,
37 Cornhill,
Boston, Mass.

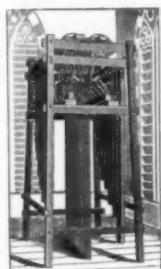
Send for Our New Catalogue.

BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
Foundation:				
Dimension.....	5 00 @ 500	5 00 @ 500	5 00 @ 500	5 00 @ 500
Block.....	4 60 @ 500	4 60 @ 500	4 60 @ 500	4 60 @ 500
Rubble.....	1 25 @ 1 50	1 25 @ 1 50	1 25 @ 1 50	1 25 @ 1 50
Quarries: (P sq. ft.)				
Sidewalk.....	30 @ 5 00	40 @ 1 75	45 @ 50	45 @ 50
Planned.....	50 @ 6 00	75 @ 75	55 @ 65	55 @ 65
Sandstone:				
Longmeadow.....	80 @ 80	90 @ 90	100 @ 100	100 @ 100
Kibbe.....	90 @ 90	110 @ 110	125 @ 125	125 @ 125
Brown (Connecticut).....	1 00 @ 95	1 25 @ 1 45	1 25 @ 1 25	1 25 @ 1 25
Amherst Ohio.....	90 @ 95	90 @ 100	90 @ 100	90 @ 100
Berea.....	75 @ 1 00	85 @ 90	85 @ 90	85 @ 90
Berlin.....	75 @ 1 00	80 @ 90	80 @ 90	80 @ 90
Belleville.....	80 @ 1 25	25 @ 1 35	25 @ 1 35	25 @ 1 35
New Brunswick (Dorchester).....	1 00 @ 1 00	1 75 @ 90	1 75 @ 90	1 75 @ 90
Caen.....	1 05 @ 1 05	2 00 @ 2 00	75 @ 1 00	75 @ 1 00
Carlisle, English.....	1 05 @ 1 05	1 05 @ 1 05	50 @ 1 00	50 @ 1 00
Corse Hill (Scotch).....	1 05 @ 1 05	1 05 @ 1 05	75 @ 1 00	75 @ 1 00
Marble: (P cu. ft.)				
Lee, Mass.....	1 25 @ 1 75	1 75 @ 2 50	3 50 @ 6 00	3 50 @ 6 00
Rutland, white and blue.....	1 25 @ 1 75	3 00 @ 3 00	3 50 @ 6 00	3 50 @ 6 00
Sutherland Falls.....	1 25 @ 1 75	2 00 @ 2 00	3 50 @ 6 00	3 50 @ 6 00
Glens Falls, black.....	1 25 @ 1 75	2 00 @ 2 00	3 50 @ 6 00	3 50 @ 6 00
Italian, blue-veined.....	1 25 @ 1 75	2 00 @ 2 00	3 50 @ 6 00	3 50 @ 6 00
" Sienna.....	1 25 @ 1 75	2 00 @ 2 00	3 50 @ 6 00	3 50 @ 6 00
Tennessee, red.....	1 25 @ 1 75	2 00 @ 2 00	3 50 @ 6 00	3 50 @ 6 00
" Knoxville.....	1 25 @ 1 75	2 00 @ 2 00	3 50 @ 6 00	3 50 @ 6 00
Pennsylvania, blue.....	1 25 @ 1 75	2 00 @ 2 00	3 50 @ 6 00	3 50 @ 6 00
Vermont, white.....	1 25 @ 1 75	2 00 @ 2 00	3 50 @ 6 00	3 50 @ 6 00
Slate: Roofing (P square).				
" green.....	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	5 50 @ 6 10
" unfading.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	6 50 @ 7 10
" purple.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	6 50 @ 7 10
" red.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	6 50 @ 7 10
" black, Leligh.....	4 25 @ 4 75	10 00 @ 11 00	12 00 @ 14 00	12 00 @ 14 00
" Chapman.....	4 25 @ 4 75	10 00 @ 11 00	12 00 @ 14 00	12 00 @ 14 00
" Unfading black, Brownville, Me.....	6 00 @ 8 50	6 00 @ 8 50	6 50 @ 9 50	6 50 @ 9 50
" Monson.....	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	6 00 @ 9 00
Tiles, Am.....	8 00 @ 8 00	8 00 @ 8 00	8 00 @ 8 00	8 00 @ 8 00
N. Peach Bottom, warranted unfading.....	8 00 @ 8 00	8 00 @ 8 00	8 00 @ 8 00	8 00 @ 8 00
Fire Clay Roofing Tile on cars at factory.....	8 00 @ 8 00	8 00 @ 8 00	8 00 @ 8 00	8 00 @ 8 00
PAINTS. (In Oil P lb.)				
White lead, Am.....	7 @ 7 1/2	6 @ 6 1/2	7 @ 7 1/2	7 @ 7 1/2
" zinc.....	5 @ 5 1/2	6 @ 6 1/2	5 @ 5 1/2	5 @ 5 1/2
Red lead, Am.....	6 1/2 @ 7	6 @ 6 1/2	6 1/2 @ 7	6 1/2 @ 7
" Venetian.....	6 @ 10 1/2	7 @ 12	6 @ 10 1/2	6 @ 10 1/2
" Vermillion.....	65 @ 70	60 @ 65 dry	65 @ 68	65 @ 68
" Indian, Eng.....	12 @ 20	12 @ 20	12 @ 20	12 @ 20
Yellow Ochre.....	6 @ 15	7 @ 12	3 @ 15	3 @ 15
" Chrome.....	12 @ 20	18 @ 25	15 @ 25	15 @ 25
Green (chrome).....	8 @ 13	8 @ 20	8 @ 20	8 @ 20
Green, Paris.....	25 @ 40	25 @ 30	18 @ 35	18 @ 35
Black, lamp.....	15 @ 25	15 @ 25	8 @ 30	8 @ 30
Blue, ultramarine.....	12 @ 16	18 @ 30	12 @ 35	10 @ 24
Oil, linseed, (raw).....	55 @ 62	56 @ 58	57 @ 60	57 @ 60
" boiled.....	58 @ 65	59 @ 61	60 @ 63	60 @ 63
Turpentine.....	36 @ 37	36 @ 36	40 @ 42	40 @ 42
Varnish, coach.....	1 50 @ 6 00	1 50 @ 6 00	1 25 @ 2 00	1 25 @ 2 00
Shellac.....	2 50 @ 3 00	2 50 @ 3 00	2 25 @ 4 00	2 25 @ 4 00
Putty.....	2 @ 4	2 @ 4	2 @ 4	2 @ 4
Whiting.....	75 @ 1 00	1 @ 1 1/2	1 @ 1 1/2	1 @ 1 1/2
Paris white, (Eng.).....	1 30 @ 2 00	1 1/2 @ 2	1 1/2 @ 2	1 1/2 @ 2
Litharge, Am.....	5 1/2 @ 6	6 @ 6 1/2	6 1/2 @ 7	6 1/2 @ 7
Sienna (burnt).....	14 @ 20	14 @ 20	4 @ 16	4 @ 16
Umber.....	14 @ 20	14 @ 20	2 @ 10	2 @ 10
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought.)				
10d. common.....	@ 2 85	@ 2 85	2 35 @ 3 50	per keg @ 2 25
Shingle.....	@ 2 60	@ 2 60	@ 1 70	@ 2 30
Lath.....	@ 3 35	@ 2 40	@ 2 10	@ 2 60
(Finishing nails according to size.).....	@ 4 85	@ 3 10	@ 2 80	3 60 @ 4 75
(For casing nails add 75 c. per keg.).....	@	@	Add .60 to \$1.90	per lb. 4 @ 6
Butts: 4" x 4".....				
Plain.....	@ 1 00	@ 85	@ 90	@ 90
Japanned.....	@ 1 50	@ 1 25	2 00 @ 3 75	1 35 @ 2 00
Acorn, Japanned.....	@ 1 50	@ 1 50	Not Sold.	1 35 @ 2 75
Ball Tip, Boston Finish.....	@ 65	@ 40	2 00 @ 3 25	48 @ 50
Bronze metal.....	@ 1 90	plain 1 25	@ 12	@ 125
Brass (for cupboards).....	@ 10	@ 10	@ 100	@ 35
Ebony.....	@	@	@	37 @ 1 00
Apple wood.....	@	@	@	@
Knobs: (P set.)				
Mineral, best.....	@ 8	@ 8	8 @ 10	@ 08
Lava.....	@ 50	@ 75	65 @ 80	Not Sold.
Hematite.....	Not Sold.	17 @ 33	31 @ 40	25 @ 50
Porcelain.....	@ 30	@ 10	25 @ 30	@ 25
Glass, solid.....	Not Sold.	@ 50	Not Sold.	1 00 @ 2 50
Glass, silvered.....	Not Sold.	88 @ 1 00	@ 1 50	1 75 @ 2 00
Bronze metal.....	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass.....	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:				
Sheet Lead.....	@	@ 6 1/2	5 1/2 @ 6	6 @ 6
Lead Pipe.....	@	@ 5 1/2	@	@
Iron:				
I-Beams, up to and including 30 ft.....	3 3-10 @ 3 1/2	@ 2 50	@	@ 2 8-10
do. over 30 ft., 1/2 c. adv. for every 5 ft.....	3 3-10 @ 3 1/2	@ 2 50	2 50 @ 2 75	@ 2 8-10
Channel Beams.....	3 3-10 @ 3 1/2	@ 2 50	50 @ 2 75	@ 2 8-10

FOR INFORMATION ABOUT
U. S. MAIL CHUTES
 WHICH ARE
 A necessity in Office Buildings and Hotels,
 write to the sole makers,
THE CUTLER MFG. CO., ROCHESTER, N. Y.
 PATENTED. AUTHORIZED.



NATIONAL
Fine Art Foundry,
 218 East 25th Street, New York.
 Artists' Models cast in Standard Bronze
 Architects' Designs Executed.
 Artistic and Enduring Monuments
 in Granite and Bronze.
 No Catalogues.
MAURICE J. POWER.



TUBULAR
CHIME BELLS
 Harrington Patents.
 Established in England.
 Introduced here
 Lighter in Weight
 Sweeter in Tone
 Cheaper in Price
 Than the ordinary bell
 Catalogue with full description.
U. S. Tubular Bell Co.,
 Methuen, Mass.

MARKS' ARTIFICIAL LIMBS.
 WITH RUBBER HANDS AND FEET,
 The most comfortable, durable and natural.



Although a man may lose both of his legs he is not necessarily helpless. By having artificial legs applied, with rubber feet attached, he can be restored to his usefulness.
 The engraving is from an instantaneous photograph of a man ascending a ladder; he has two artificial legs substituting his natural ones, which were crushed by a railroad accident and amputated. With his rubber feet he can ascend or descend a ladder, balance himself on the rungs, and have his hands at liberty. He can work at a bench and earn a good day's wages. He can walk and mingle with persons without betraying his loss; in fact, he is restored to his former self for all practical purposes.
 With the old method of complicated ankle-joints these results could not be so thoroughly attained.
 Fifteen thousand in use, scattered in all parts of the world. Many of these have been supplied without presenting themselves to the maker, simply by sending measurements on a formula which any one can easily fill out.
 RECEIVED THE HIGHEST AWARD AT
 WORLD'S COLUMBIAN EXPOSITION.
 Indorsed and purchased by the U. S. Government.
 A treatise of 430 pages and formula for measuring SENT FREE.

A. A. MARKS,
 701 Broadway, NEW YORK CITY.
 [Established 41 Years.]

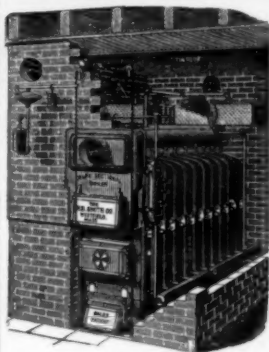


The Great
CHURCH LIGHT
 Frink's Patent Reflectors
 for Gas, Oil, or Electric, give
 the most powerful, softest,
 cheapest, and best light known
 for Churches, Stores, Banks, The-
 atres, Depots, etc. New and el-
 ephant designs. Send size of room.
 Get circular & estimate. A liberal
 discount to churches & the trade.
 Don't be deceived by cheap imitations.
I. P. FRINK, 561 Pearl St., N. Y.

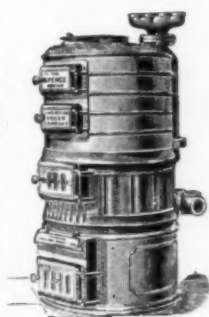
Conservatories,
GREENHOUSES,
VINERIES,

Shipped to any part of the country, and erected
 complete, ready for use.
 Plans embrace the latest improvements.
 Unequalled facilities for manufacturing. Thirty-five
 years' experience. Catalogue sent on application.
 Address, stating requirements,

LORD & BURNHAM COMPANY,
 IRVINGTON-ON-HUDSON, N. Y.



Gold's Boiler.



HEATING.
 STEAM AND HOT WATER.

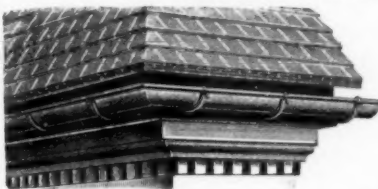
The Architect, Steam Fitter, Plumber, and the General Public
 give our line of Heaters Preference on account of being
 Simple in Construction, Economical in Operation,
 Powerful and Rapid in performing
 their work.

Write for Descriptive Catalogue.

American Boiler Company

BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
 195 Ft. Hill Sq. 94 Center St. 84 Lake St. 127 6th St.

NOTICE TO ARCHITECTS.



This cut shows the additional width, strength
 and beauty of an eave finished with a hanging,
 expanding Gutter hung with

"Berger's Favorite Hangers,"

now superseding every other device.

BERGER BROS.,
 237 Arch Street, - PHILADELPHIA.



BUILDING MATERIALS.

Reported for the American Architect and Building News.

	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
LUMBER.—P. M.				
Boards: (Ordinary dimensions.)				
Pine, 1st quality, clear	65 00 @ 75 00	55 00 @ 70 00	42 00 @ 50 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	27 00 @ 38 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	20 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	@ 25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock	ea 134 @ 14	104 00 @ 15 00	@ 12 00	11 25 @ 13 50
Yellow pine	20 @ 40	23 00 @ 35 00	21 00 @ 34 00	14 00 @ 29 00
Cypress	@	28 00 @ 40 00	18 00 @ 34 00	@ 35 00
Clapboards:				
Pine	@	38 00 @ 55 00	19 00 @ 22 50	14 00 @ 25 00
Spruce	@	23 00 @ 38 00	Not sold.	Not sold.
Framing Timber:				
Pine	14 00 @ 18 00	14 00 @ 17 00	12 00 @ 17 50	25 00 @ 37 30
Spruce	12 00 @ 16 00	13 00 @ 15 00	Not sold.	16 00 @ 18
Hemlock	18 00 @ 21 00	20 00 @ 35 00	10 00 @ 13 00	13 00 @ 17
Yellow pine			24 00 @ 34 00	22 00 @ 28
Laths:				
Pine	Slab	2 25 @ 2 50	@ 2 40	2 75 @ 3
Spruce	1 65 @ 1 75	2 00 @ 2 50	Not sold.	2 30 @ 3 00
Shingles:				
Pine, shaved	P. M.	@	Not sold.	
Pine, sawed	4 00 @ 5 00	@ 4 50	2 25 @ 2 50	
Spruce, sawed	1 50 @ 2 00	1 50 @ 2 00	Not sold.	
Redwood	1 40 @ 1 60	3 25 @ 3 75	6 00 @ 7 50	(30" @ 35 @ 40
Cedar split	P. M.	@	Not sold.	24" @ 8 @ 21
Cedar sawed	@	2 00 @ 3 75	2 60 @ 2 75	(30" @ 35 @ 14
Cypress, Split	7 x 24	18 00 @ 20 00	3 50 @ 4 00	11 00 @ 14 00
Miscellaneous:				
Piles	44 @ 54	Piles 6c. P. ft.	Cut to order.	
Fence pickets, Common	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 22 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts)	@	25 @ 50	9 @ 21	40 @ 1 25
Chestnut posts	@	25 @ 50	Not sold.	20 @ 30
Finishing Woods: P. M. (First)				
Ash	@ 85 00	45 00 @ 60 00	14 00 @ 30 00	42 50 @ 47 50
Cherry	80 00 @ 120 00	50 00 @ 120 00	35 00 @ 30 00	100 00 @ 120 00
Butternut	40 00 @ 60 00	60 00 @ 70 00	17 00 @ 35 00	70 00 @ 80 00
Hard-pine floors (rift)	@ 180 00	160 00 @ 170 00	110 00 @ 170 00	150 00 @ 250 00
Mahogany, Baywood [Mexican]	@ 350 30	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
St. Domingo	45 00 @ 50 00	45 00 @ 50 00	12 00 @ 20 00	25 00 @ 55 00
Maple	@ 70 00	40 00 @ 50 00	17 00 @ 27 00	42 50 @ 55 00
Oak, red	@ 70 00	45 00 @ 55 00	16 00 @ 28 00	45 00 @ 55 00
" white	@ 90 00	65 00 @ 75 00	34 00 @ 40 00	60 00 @ 75 00
" quartered		50 00 @ 65 00	25 00 @ 28 00	57 50 @ 65 00
Sycamore quartered		50 00 @ 75 00	33 00 @ 50 00	@ 65 00
Pine, clear	65 00 @ 70 00	50 00 @ 70 00	40 00 @ 45 00	60 00 @ 75 00
Redwood	60 00 @ 70 00	50 00 @ 70 00		
Rosewood	@ 6		per M. 600 00	
Spruce floorclear, (kilm-dried)		32 00 @ 35 00		
Walnut, black	125 00 @ 150 00	85 00 @ 120 00	40 00 @ 75 00	50 00 @ 170 00
Whitewood	45 00 @ 50 00	35 00 @ 45 00	14 00 @ 30 00	25 00 @ 40 00
Yellow pine	@ 45 00	40 00 @ 42 00	31 00 @ 34 00	@ 42 00

CLINTON WIRE-CLOTH CO.,

Sole Proprietors and Manufacturers of

WIRE LATH

DOUBLE TWIST WARP
STIFFENED (Iron furred)
CLINTON CORRUGAT'D

Plain, Japanned or Galvanized.

The Most Perfect and Economic System of FIREPROOF Construction.

SEND FOR CIRCULAR.

BOSTON, NEW YORK, CHICAGO, FACTORY,
199 Washington St. 76 Beekman St. 137 Lake St. CLINTON, MASS.



WORTHINGTON STEAM PUMPS

ARE THE STANDARD FOR
HYDRAULIC ELEVATOR AND HOUSE SERVICE.

Send for New Illustrated Catalogue.

Henry R. Worthington,

NEW YORK, 86 & 88 Liberty St.
BOSTON, 70 Kilby St.
PHILADELPHIA, 607 Arch St.
CLEVELAND, 24 South Water St.
CHICAGO, 185 to 189 Van Buren St.
ST. LOUIS, Eighth & St. Charles Sts.



A BOON TO ARCHITECTS AND BUILDERS. THE MORSE PATENT WALL TIE.

Made from 3-16 in. galvanized steel wire; thickness where ends cross 1-4 in.
Secures Hollow Walls, Brick Facings, Terra Cotta, Etc.
Also made from 5-32 and 1-8 wire.

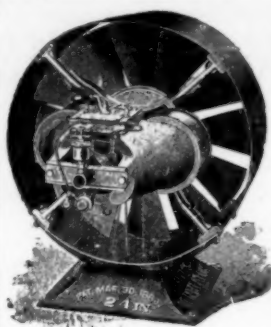
CHEAP, STRONG, RELIABLE.

Adopted by more than 400 Architects and Builders the past three seasons.
Write for samples, circulars, etc.

J. B. PRESCOTT & SON, Sole Mfrs., Webster, Mass.

New York Office,
62 Reade St.

BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
BRICK.—P. M.				
Common: Cargo afloat.				
Pais.	1 50 @ 1 75			
Jersey.	3 75 @ 4 25			
Long Island.	@			
Up River.	3 75 @ 4 50			
Haverstraw Bay 2d.	4 00 @ 4 25			
1st.	4 50 @ 5 25			
Hollow.	@ 13 00			
Fronts:				
Croton, Brown.	9 00 @ 12 00			
" dark.	10 00 @ 13 00			
" red.	10 00 @ 13 00			
Chicago pressed (Anderson).				
" Moulded.				
Baltimore.	37 00 @ 41 00			
Philadelphia.	22 00 @ 23 00			
Trenton.	@ 19 00			
Milwaukee.				
Moulded:				
Glens Falls Red Pressed.	@ 37 00			
" " Buff.	@ 30 00			
" " Moulded Red & Buff	45 00 @ 70 00			
Enamelled: Imp.				
Enamelled (edge).	85 00 @ 100 00			
Enamelled (edge and end).	90 00 @ 115 00			
CEMENT, LIME, etc.—(P. M.)				
Rosendale Cement.				
Louisville.	80 @ 90			
Utica, Akron, Buffalo, Milwaukee.	Not sold.			
Portland, English (Gibbs).	2 25 @ 2 50			
" " (K. B. & S.).	2 50 @ 3 00			
" " Black Cross.	2 25 @ 2 50			
" " (Burnham).	2 50 @ 2 50			
" " (White's).	2 65 @ 3 00			
" French (Lafarge).	3 60 @ 3 75			
" German (Alsen).	2 90 @ 3 25			
" " (Vorwiler).	2 25 @ 2 40			
" " (Lagerdofer).	2 50 @ 2 90			
" " (Dyckerhoff).	2 60 @ 2 90			
" " (Hanover).	2 50 @ 3 00			
" " Stettin (Anchor).	2 35 @ 2 85			
" American (Saylor's).	2 15 @ 2 25			
Roman.	2 75 @ 3 00			
Keene's coarse.	4 50 @ 5 30			
superfine.	5 00 @ 5 50			
Lime:				
Lime of Tell.	3 50 @ 4 00			
Hydraulic Lime.	@ 1 45			
Chicago Lime in bulk.	St. John @ 85			
Wisconsin Lime.	@ 90			
Rockland and Rockport, (Com.).	@ 1 00			
Rockland and Rockport, finish.	@			
Kelley Island Lime, finish.	@ 80			
State, com. cargo rates (nom.).	1 05 @ 1 10			
State, finishing.	1 40 @ 1 50			
Plaster of Paris (calcined).	@ 1 60			
" (castings).	18 @ 21			
Hair (Cattle) bush.	21 @ 25			
" (Goat).	1 00 @ 1 25			
Sand, P. load.				
STONE. (P. cubic foot, rough.)				
Granite: (Maine)				
Limestone:				
Bedford.	45 @ 1 25			
Joliet.	1 00			
Lemont.				
Serpentine.				



KEEP COOL
BY USING
THE SMITH
VENTILATING
FAN.

KEEP WARM
BY USING
THE SMITH
HOT BLAST
APPARATUS.

Both Manufactured by

THE HUYETT & SMITH MFG. COMPANY,
Heating and Ventilating Engineers,
DETROIT, MICH.

Write for Catalogue, mentioning this paper.

MCCRAY REFRIGERATOR AND COLD STORAGE CO.,

Cooling Rooms for public Institutions, Hotels,
Fine Residences, Groceries, and
Meat Markets.

KENDALLVILLE, IND.

CATALOGUE

FOR 1894 OF
Architectural Books.

SEND FOR CLEARANCE CIRCULAR.

WM. T. COMSTOCK, Pub., 23 Warren St., N. Y.



NEW ENGLAND FELT ROOFING WORKS,

22 MILK ST., BOSTON.

Originators of Felt Roof-
ing in New England.

Inventors and only Manu-
facturers of the Celebrated

ESTABLISHED
1852.
Incorporated
1891.
Capital \$80000
LEVI L. WILLIAMS, Pres't
EPHRAIM C. DAVIS, Treas'r

"BEEHIVE BRAND."

BURDITT & WILLIAMS,
Representatives of Leading Manufacturers of
-- BUILDERS' HARDWARE --
Refer to the prominent Architects of Boston,
New York and Washington, as well as to many
of the Finest Public Buildings and Residences
in all parts of the United States.
Branch Office, 20 Dock Square,
WASHINGTON, D. C. BOSTON, MASS.

Heliotype Printing Co.,

211 Tremont Street, Boston.

ESTABLISHED 1872.

- PHOTO-LITHOGRAPH.
- PHOTO-COLOR-LITHOGRAPH.
- PHOTO-GELATINE.
- PHOTO-GRAVURE.
- PHOTO-ENGRAVING.

COPIES OF ARCHITECTURAL,
MECHANICAL AND OTHER
DRAWINGS, MAPS, PLANS, ETC.,
PORTRAITS, VIEWS AND ALL
BOOK ILLUSTRATIONS.

Heliotype Printing Co.

CABOT'S CREOSOTE SHINGLE STAINS



Loring & Phipps Arch'ts Boston

Don't specify paint for shingles; it isn't artistic. Don't specify a Stain that will turn black in a few years, because it looks dirty and you have to paint it over to change the color. Specify a stain that will hold its color and grow old gracefully—like Cabot's, which was the first shingle stain ever made, and is now, as always, first in durability, first in economy, and first in favor with those who have used it. *Every gallon guaranteed.*

SUMMER COTTAGE
THOUSAND ISLANDS
BY J. P. FARRINGTON

Large or small wood samples, circulars and water-color reproductions of color schemes, sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

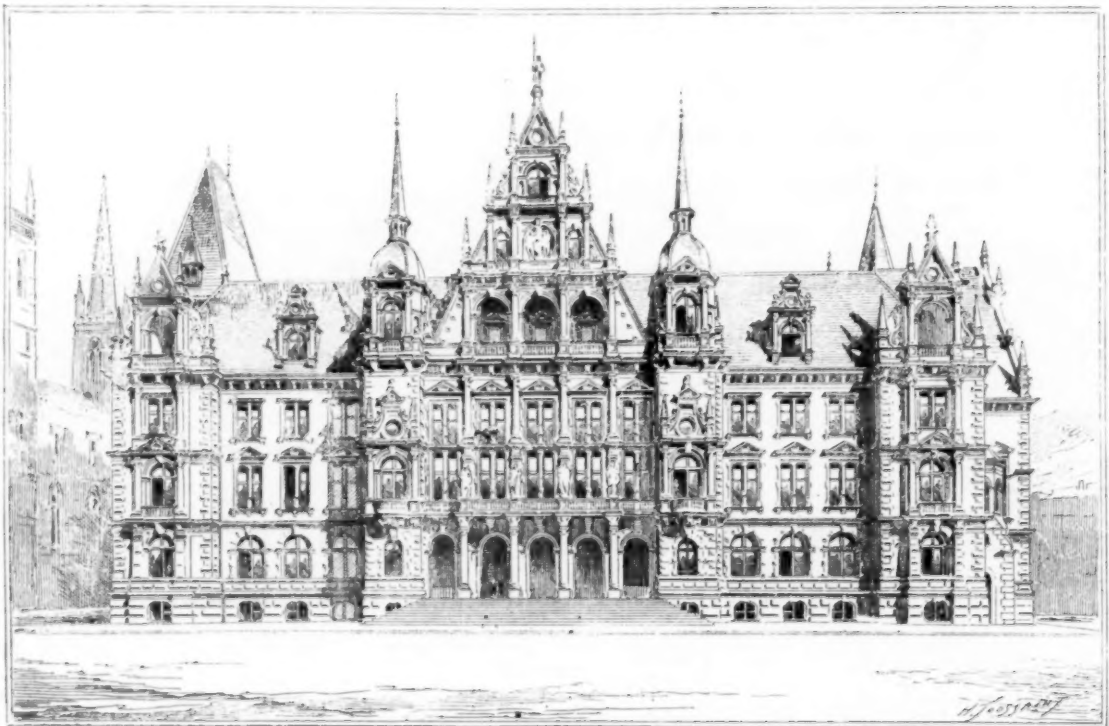
Agents at all Central Points. **70 Kilby St., BOSTON, MASS.**



Hôtel de Ville, Compiègne, France.



Hôtel de Ville, Schaerbeek, Belgium.



Town-Hall, Wiesbaden.

TOWN-HALLS.

OKONITE INSULATED ELECTRIC LIGHT WIRES?

TRADE MARK.
WILLARD L. CANDEE,
H. DURANT CHEEVER, } Managers.
GEO. T. MANSON, Gen'l Supt.
W. H. HODGINS, Sec'y.

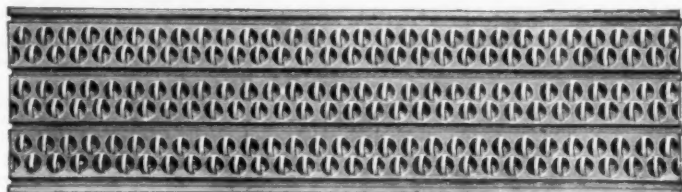
The Okonite Wire is pronounced by Architects to be a **SAFE, DURABLE** and **EASILY ADJUSTED WIRE**, for the **INSIDE WIRING** of **PUBLIC** and **PRIVATE BUILDINGS**.

AWARDED A GOLD MEDAL AT THE PARIS EXPOSITION.

BRANCHES: Boston, Philadelphia, Chicago, Omaha, Cincinnati, Minneapolis, San Francisco, Louisville, St. Louis, Kansas City, South America, London.

THE OKONITE COMPANY, L'T'D,
13 Park Row, New York.

Send for Catalogue and Prices.

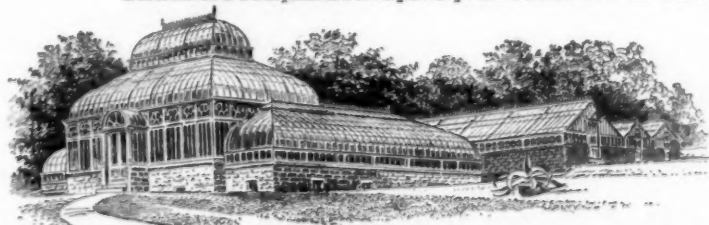
**"Piqua" Steel Lath.**

"Piqua" Lath is made from the best quality of steel, in sheets $27\frac{1}{4} \times 48$ inches, and each sheet covers exactly one square yard of surface. The corrugations shown in cut are $3\frac{1}{4}$ inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.



HITCHINGS & CO., Established 50 years.
HORTICULTURAL ARCHITECTS AND BUILDERS
and largest Manufacturers of
GREENHOUSE, HEATING, AND VENTILATING APPARATUS.



Conservatories, Greenhouses, Palm Houses, etc., erected complete with our patent Iron Frame Construction. Plans and Estimates of cost and illustrated catalogues sent on application.

233 MERCER STREET, N. Y.

**PERSPECTIVE DRAWINGS.**

During the current year Pen-and-Ink or Water-color Perspective Drawings have been rendered in the

DRAWING OFFICE

OF THE

"AMERICAN ARCHITECT"

For the Following Architects.

BOSTON.

Peabody & Stearns.
Winslow & Wetherell.
Shepley, Rutan & Coolidge.
C. Brigham.
Wait & Cutter.
Blackall & Newton.
Longfellow, Alden & Harlow.

SPRINGFIELD, MASS.

Gardner, Pyne & Gardner.

WORCESTER, MASS.

G. H. Clemence.

PROVIDENCE, R. I.

Stone, Carpenter & Willson.

ALBANY, N. Y.

Fuller & Wheeler.

BUFFALO, N. Y.

C. D. Swan.

PHILADELPHIA, PA.

G. T. Pearson.

BALTIMORE, MD.

Wyatt & Nölting.
J. A. & W. T. Wilson.
J. E. Sperry.

PITTSBURGH, PA.

F. J. Osterling.
W. S. Fraser.

YORK, PA.

J. A. Dempwolf.

LYNCHBURG, VA.

E. G. Frye.

MINNEAPOLIS, MINN.

W. D. Dunnell.

TORONTO, CANADA.

Strickland & Symons.

ST. JOHNS, NEWFOUNDLAND.

J. Wills & Son.

And others.

SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.

Slate, Copper, Tin and Gravel Roofing.

Nos. 20 and 22 EAST STREET, BOSTON.

Order Box at Master Builders Association,
164 Devonshire Street.Special attention given to Repairs
of all kinds.

Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs, acknowledged to be the strongest method in use, and has been applied to many of the best constructed and largest buildings in this country.

Contracts made for Work wherever desired.

ASPHALT ROOFING AND PAVING MATERIALS.

WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.

Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO. 81 & 83 Fulton Street, NEW YORK, U. S. A.

Send
for
Samples.

If you SPECIFY



SAMSON SPOT CORD

You can tell at a glance that no other cord is substituted. It is warranted to be of pure Cotton, smooth finish and perfect braid.

Samson Cordage Works, Boston, Mass.



JACKSON VENTILATING GRATES

in the Spring and Fall will each heat an entire residence, thus saving the furnace or other heater.

Send for Catalogue B.

EDWIN A. JACKSON & BRO., 50 Beekman Street, New York.



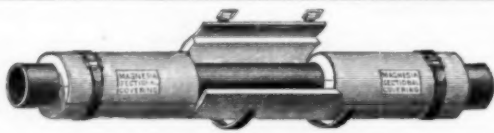
YALE LOCKS

BLACKCROSS PORTLAND CEMENT

IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,

IMPORTERS ROMAN, KEENE'S, VICAT CEMENTS, 23 Liberty Street, NEW YORK.



Absolutely Fire-proof.



MAGNESIA



SECTIONAL

STEAM PIPE AND BOILER COVERINGS.

THE GREAT COAL-SAVER.

MANUFACTURED BY

The Keasbey & Mattison Company,

CINCINNATI:

114 West Second St.

AMBLER,

PA.

CLEVELAND:

117 Water St.

SELLING AGENTS:

S. C. Nightingale & Childs, Boston, 134 Pearl St.
Robert A. Keasbey, New York, 54 Warren St.
Macao & Co., Philadelphia, 1420 Callowhill St.
Wallace & Bro., Baltimore, 432 E. Pratt St.
Wm. B. Morgan, Washington, Builders' Ex'c.
Delbert Engineering Co., New Orleans, 23 Union St.
Symmes & Co., Memphis, 192 Front St.F. Sprinkman, Milwaukee, 133 Sycamore St.
W. W. Hite & Co., Louisville, 176 Fourth St.
F. Bocler, St. Louis, 168 Walnut St.
S. P. Conkling, Detroit, 20 Atwater St., East.
C. W. Badgley & Co., Denver, 18th & Market Sts.
Utah & Montana Machinery Co., Salt Lake City.
R. W. James, Butte City, Mont.
DeSolla & Deussing, S. Francisco, 2 California St.

The only Rubber Insulation Awarded Medal at World's Fair, Chicago, U. S. A., 1893.

High Grade Insulated Wires for Interior Use

Electric Light Wires and Feeders.

Kerite Tape.

WRITE FOR CATALOGUE.

Kerite Elastic Tape.

W. R. BRIXEY, Manufacturer, 203 Broadway, NEW YORK.

ASPHALT FLOORS, ROOFS, SIDEWALKS AND CARRIAGE-WAYS

Of Public Buildings, Hospitals, Warehouses, Stables, Cellars, etc.

Laid with VAL de TRAVERS ROCK ASPHALT, DURABLE, FIREPROOF AND IMPERVIOUS.

For estimates and list of works executed, apply to

THE NEUCHÂTEL ASPHALT CO., Limited,
265 BROADWAY, NEW YORK.

Brown's Patent Seamless DRAWN COPPER HOUSE BOILERS.

Cannot collapse.

Will not leak.

Ordinary boiler tested to 200 lbs.

Extra heavy tested to 300 lbs.

Made of two seamless drawn copper shells.

Handsome, best and strongest in the market.

Send for circular giving instructions for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES,
Waterbury, Conn.

Western Depot: 71 West Washington St., Chicago. Branch Offices: 104 John St., New York; Room 320 Philadelphia Bank Building, Philadelphia; 90 Milk St., Boston; Room 208, Neave Building, Cincinnati.

Proprietors of the Brown & Bros. Tubing and Boiler Works, and the Brown & Bros. Brass and Copper Rolling Mills.

Manufacturers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

TO THOSE INTERESTED IN, OR USING VALVES:



WE have recently made improvements in the manufacture of JENKINS BROS.' VALVES, having increased the number of bolts, thickness of flanges, etc. We shall manufacture ONE GRADE OF VALVE ONLY, suitable for high or low-pressure steam. The Jenkins' Discs used in these valves are suitable for high or low pressure. We guarantee all valves stamped with Trade Mark.

JENKINS BROS.,

New York, Chicago, Philadelphia, Boston.

Chicago Interior Decorating Co.

Bank, Office & Club Equipments.

Mantels, Tiles, Ceramic Mosaics FINE SPECIAL FURNITURE.

Highest grade of first class goods.

Drawings and Estimates furnished upon application.

149 & 150 Michigan Ave., Chicago, Ill.

Formerly occupied by the Henry Dibblee Co.

BLAKE BELL CO.

Successors to Wm. Blake & Co. Bell Founders and Brass Finishers.

Castings in any metal except iron.

Monumental Tablets, Artistic Brass Work.

Allen and Brighton Sts., BOSTON.

J. W. TAYLOR'S PHOTOGRAPH SERIES.

151 MONROE ST. CHICAGO. 1 OF AMERICAN ARCHITECTURE.

Removed to Owings Building.

Send two 5 cent stamps for Catalogue.

PARQUET FLOORS.

The National Wood Manufacturing Co.,

129 5th Avenue, New York.

WAINSCOTINGS and CEILINGS.

Inlaid Wood Floors 5-16 and 7-8 inch thick.

Solid work, Tongued and Grooved in each piece.

Designs & Estimates on application. Established 1867.



POINTS ON VARNISH

NO. 266.—"THE SMALLEST WORM
WILL TURN, BEING TROD ON."

It is bad. Everybody knows it is bad. It is bad for everybody. Nobody pretends even to excuse it. From the architects of every city in the land comes the confession that it fosters all manner of cheating and defrauding—What? Why, the old system of contract for finishing—letting to carpenters, who sublet; letting to lowest bidders, who select their own varnish; not specifying explicitly, but "holding to results." Yet there is a strange indifference to the abuse. There is always indifference to every abuse, political, social, financial, until the frauds become high-handed tyrants. Such they have become, in the finishing business: boldly refusing or secretly avoiding the architect's orders; wheedling and deceiving the owner; bulldozing everybody, until all honest men concerned in the business are beginning to *feel* that they are trod on. When that feeling deepens into a wide-awake conviction, we shall have taken the second step towards reform. To *see* an abuse is one thing; to *feel* it is a very different thing.

MURPHY VARNISH CO.
FRANKLIN MURPHY, President.

Head Office: Newark, N. J.
Other Offices: Boston, Cleveland, St. Louis, Chicago.
Factories: Newark and Chicago.

To ARCHITECTS:

If you desire to recommend a firm as one thoroughly capable of supplying *complete* furnishings for a hotel, club-house or private residence, you can mention us *with confidence*.

We supply CARPETS, RUGS, UPHOLSTERY FABRICS, FURNITURE, ETC., ETC.

Our goods are right; our prices are right.

We make a specialty of *private and exclusive patterns* which cannot be duplicated elsewhere.

John H. Pray, Sons & Co.,
658 Washington Street,
Opposite Boylston Street,
BOSTON.

F. W. DEVOE & CO.

(Established 1852.)

Fulton St., cor. William, New York.
No. 176 Randolph St., Chicago.

Pure Ready-mixed Paints.

We desire to call attention of consumers to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fireproof." We use no secret or patent method in manufacturing them by which benzine and water are made to serve the purpose of pure linseed-oil.

Sample cards, containing fifty desirable shades sent on application.

FINE VARNISHES.

Hard Oil-Finish & Wood-Stains.

Illustrated Catalogue of Engineers' and Architects' Supplies, 250 pages, 700 Illustrations, on request.

White-Lead Colors in Oil and Japan.

THE DECORATIVE GLASS

In Abbey's Theatre, N. Y., and Keith's Opera House, Boston, are examples of Renaissance and Rococo designs, the movement, carried out entirely in our *hard metal* settings.

METALLIC SETTING CO.,
137 Weybosset St., PROVIDENCE, 5 Park Sq., BOSTON.

H. W. JOHNS' Liquid Paints

These Paints are composed of pure linseed oil and the highest grade of pigments. They are combined by processes exclusively our own and are unequalled by any in richness and permanency of color. One gallon will cover from 275 to 300 square feet, two coats without thinning and can be safely thinned with $\frac{1}{2}$ gallon linseed oil to one gallon paint for first coat.

SAMPLE CARD OF DES. INSTRUCTIONS FOR USE AND SUGGESTIONS FOR PAINTING EX. FREE BY MAIL.

New York, Jersey City,
Chicago, Philadelphia, Boston.

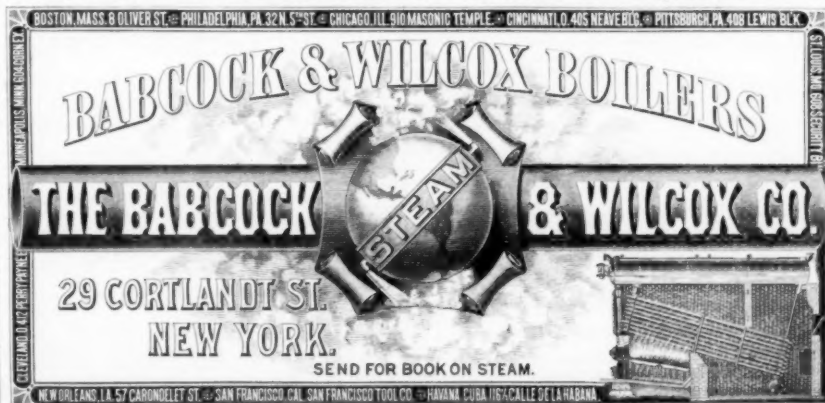
H. W. JOHNS MFG CO.



**STAMPED STEEL
CEILINGS**

MANY
DESIGNS
H. S. NORTHROP
Manufacturer,
30 ROSE ST.
NEW YORK

Awarded the Grand Prize at the late Paris Exposition.



BABCOCK & WILCOX BOILERS

THE BABCOCK & WILCOX CO.

29 CORTLANDT ST.
NEW YORK.

SEND FOR BOOK ON STEAM.

NEW ORLEANS, LA. 57 CARondelet ST. SAN FRANCISCO, CAL. SAN FRANCISCO TOOL CO. HAVANA, CUBA 116 CALLE DE LA HABANA

Ex-Burgess Wright is building a warehouse in the

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING,
NEW YORK.

DREXEL BUILDING,
PHILADELPHIA.

MONADOCK BUILDING,
CHICAGO.

DASHWOOD HOUSE,
LONDON.



Announce to all who contemplate *building or renovating*
Hotels, Office Buildings or Residences, that they have
formed a department in their extensive works for

**Architectural Woodwork,
Fine Cabinet Work, and
Interior Finishing.**

Plans, designs, specifications and further particulars will be submitted on ap-
plication. Address **WORKS AT WILMINGTON, DEL.**

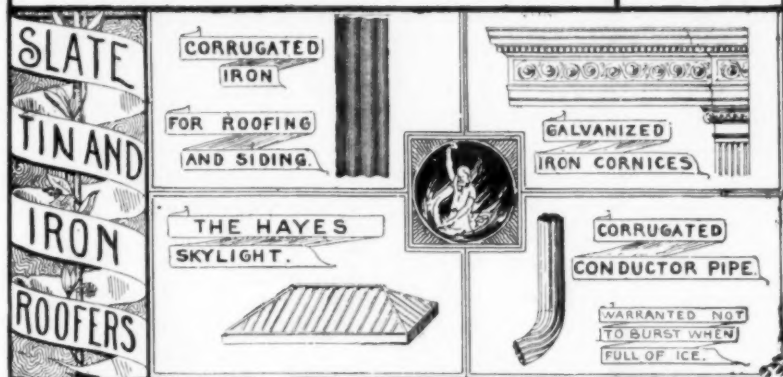
JOHN WILLIAMS, 544 to 556 West 27th Street, New York.

WROUGHT IRON AND BRASS WORK TO SPECIAL DESIGNS ONLY.

REFERENCES: Tiffany & Co., N. Y.; Cottler & Co., N. Y.; L. Marcotte & Co., N. Y.; McKim, Mead &
White, N. Y.; Babb, Cook & Willard, N. Y.; Bruce Price, N. Y.; R. M. Hunt, N. Y.; Bailey,
Banks & Biddle, Phila.; Frank Hill Smith, Boston.; A. H. Davenport, Boston.

JAMES A. MILLER & BRO.

129 & 131
S. CLINTON ST
CHICAGO



THE "GORTON" BOILER, For STEAM and HOT-WATER HEATING.

ECONOMICAL IN FUEL, AUTOMATIC, SELF-FEEDING.

A STEEL SECTIONAL TUBULAR BOILER.

Correspondence solicited from Architects and those interested in
Heating Large or Small Buildings.

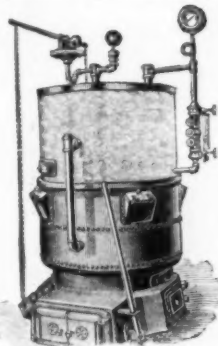
Our New Book on MODERN HOUSE HEATING furnished on application.

GORTON & LIDGERWOOD CO.,

96 LIBERTY STREET, NEW YORK.

197 to 203 Congress St., BOSTON.

34 and 36 W. Monroe St., CHICAGO



**PAUL E. CABARET (Successor to SPADONE & CABARET),
BRONZE AND BRASS WORK OF ALL KINDS
For Banks, Churches, Mausoleums, etc. Doors and Gates a specialty.
Send for Catalogue. Herring Building, Junction of 9th Ave. & 14th Street, New York.**

BUILDING INTELLIGENCE.

(Advance Rumors Continued.)

Brooklyn, N. Y.—A fire-house will be built on Liberty Ave.
Chester, Pa.—The half a dozen stores previously reported to be built for Crosby M. Black, will cost about \$100,000.
Coteseville, Pa.—A rolling-mill will be built for Worth Bros.
E. C. Young can give information about a large machine-shop to be built at the Luken's works.
Conshohocken, Pa.—An addition, 60' x 200', will be made to the rolling-mill property of Janvot Luken.
Holyoke, Mass.—A new fire-house will be built in Springdale.
Linnwood Station, Pa.—Rumor has it that a school will be built here.
Kensington, N. H.—A Public Library building, the gift of Joseph C. Hilliard, will be built.
Medford, Mass.—The city has appropriated \$21,000 for a brick police station.
Reynoldston, Pa.—A new hose-house will be built.
West Chester, Pa.—Interior alterations will be made to the Reformed Episcopal Church of the Sure Foundation.
West Hoboken, N. J.—A fire-house and truck-house will be built.

APARTMENT-HOUSES.

Chicago, Ill.—Mrs. M. Kichoff, three-sty flats, 933 West Division St.; \$7,500.
New York, N. Y.—Eighty-eighth St., s. s. 96' w Madison Ave., 3 five-sty brick flats, 25' x 87', 58' high, flat tin roof; \$81,000; own., John W. Livingston, 103 East 86th St.; arch., Geo. F. Pelham, 503 5th Ave.
One Hundred and Fifteenth St., s. e. cor. Madison

BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

Ave., 4 five-sty brick flats, 25' x 70', 59' high, flat tin roof; \$80,000; own., Theo. Cardier, 453 East 86th St.; arch., John Hauser, 141 3d Ave.
Mitchell Pl., No. 9, five-sty brick flats, 18' x 68', 60' high, flat tin roof; \$18,000; own., Jas. V. McManus, 963 Madison Ave.; arch., Sass & Langer, 2 Oliver St.
One Hundred and Eighteenth St., n. e. cor. 118th St., 4 five-sty brick flats, 25' x 89', 59' high, flat tin roof; \$84,000; own., Rich W. Hawkes, 536 West 142d St.; arch., John C. Burne, 101 West 42d St.
Eighth Ave., n. e. cor. 118th St., 4 five-sty brick flats, 25' x 90', 57' high, flat tin roof; \$140,000; own., Rich W. Hawkes, 536 West 142d St.; arch., John C. Burne, 101 West 42d St.
CHURCHES.
New York, N. Y.—One Hundred and Sixty-seventh St., n. s. Franklin St. to Fulton Ave., one-sty brick church, peak slate roof, 80' x 174', 84' high; \$70,000; own., St. Augustine Roman Catholic Church; arch., Louis H. Geile, Jersey City, N. J.
CLUB-HOUSES.
State College, Pa.—Press brick and stone clubhouse for the Beta Theta Pi Society; arch., Wagner & Reitmeyer, Trust Building, Williamsport, Pa.
EDUCATIONAL.
Germantown, Pa.—Haines St., s. w. cor. Belfield Ave., one-sty stone and brick mission Sunday-school building, 32' x 76'; own., First Baptist Church of G't'n.; con., Real Estate Improvement Co., 331 West Chelton Ave.; arch., R. C. Heath.
Maywood, N. J.—School; about \$7,000; con., Wm. H. Monroe, Hackensack, N. J.
McKeesport, Pa.—School; con., Baker & Miller; arch., Wilson & Shuster, 96 Fifth Ave., Pittsburgh.
Norriton Township, Pa.—School; con., Shoemaker & Krugle.

ARCHITECTURAL DRAWING



DIPLOMAS AWARDED. Courses in other trades all including thorough instruction in Mathematics and Physics. Send for FREE circular stating subject you wish to study to The Correspondence School of Industrial Sciences, Scranton, Pa.

BUILDING INTELLIGENCE.

FACTORIES.

Myerstown, Pa.—Foundry, 45' x 125'; machine-shop, 45' x 40' and 25 horse-power engine; own., E. S. Karsnitz.

HOTELS.

New York, N. Y.—Broadway, s. w. cor. 25th St., eight-sty brick hotel, flat gravel roof, 50' x 107', 121' high; \$378,000; own., Louisa M. Gerry, 8 East 48th St.; arch., Alfred Zucker, 33 Union Sq.

HOUSES.

Allegheny, Pa.—Dwell.; arch., Thos. Boyd, Westinghouse Building.
Eight-room stone and brick dwell.; own., Rev. Father F. H. Kettle; arch., C. Bickel, W. E. Bld'g Bedford Ave., three-sty brick dwell. with stone trimmings; own., John McMurray; con., Morrell & Lowry.

Ambler, Pa.—Euclid Ave., stone and buff brick dwell. will be built for Benton S. Russell.
A dwell. will be built for Councilman Thomas Rosel.

Baltimore, Md.—Eight three-sty brick dwells., w. s. Guilford Ave., bet. Chase and Biddle Sts.; own., R. M. Chambers, 1514 John St.
Two three-sty brick dwells., n. s. Dolphin St., bet. Eutaw Pl. and Madison Ave.; own., James Arthur, 1702 Harlem Ave.

Five three-sty brick dwells., Huntingdon Ave., and 4 two-sty brick dwells., Buchanan St. (city annex); own., Jno. S. Kidd, 1735 East Biddle St.
Seventeen three-sty brick dwells., n. s. North Ave., bet. McCulloh St. and Druid Hill Ave.; own., Jos. H. Pentz, 630 West Saratoga St.
Six two-sty brick dwells., n. s. North Ave., e. Slingsluff Ave.; own., Jno. F. Orter, 1309 Mosher St.
Three two-sty brick dwells., York Road, bet. 31st and 32d Sts.; own., M. E. Aul, 3108 York Road.

Boston, Mass.—Park St., Ward 23, frame dwell., pitch roof, 32' x 37'; \$4,500; own., C. W. Whittemore; arch., James Murray; contract not let.
Poplar and Florence Sts., Ward 23, two-sty frame dwell., hip roof, 28' x 45'; \$4,500; own., George W. Cobleigh; arch., James Murray; contract not let.
Ashmont St., cor. Neponset Ave., Ward 24, two-and-one-half-sty frame dwell., b'p roof, 42' x 45'; \$6,500; own., W. J. McCarty; arch., T. E. Sheehan; contract not let.

Whiting St., near Moreland St., Ward 21, two-and-one-half-sty frame dwell., pitch roof, 38' x 57'; \$10,000; own., Mrs. Keeler; arch., F. T. Sheehan; contract not let.

Centre St., near Perkins St., Ward 23, two-and-one-half-sty frame dwell., gambrel roof, 30' x 40'; \$4,500; own., Bernhard Zeller; bld., Joseph Bulley; arch., J. Williams Beal.

Brinton, Pa.—Six frame and brick dwells.; Edge-wood Loan and Trust Co.; arch., B. P. Little, Westinghouse Building, Allegheny, Pa.

Brockton, Mass.—West Elm St., two-and-one-half-sty frame dwell., hip roof, 38' x 66'; \$9,000; own., Mrs. Southworth; bld., H. H. Wardwell; arch., J. Williams Beal, Boston.

Cambridge, Mass.—Francis Terrace, two-sty frame dwell., hip roof, 33' x 58'; own., Warren A. Locke; bld., H. N. Mabie; arch., Warren & Bacon, Boston.

Camden, N. J.—Fairview St., 8th Ward, two-sty frame dwell.; own., R. H. Krueger, Atlantic City, N. J.

Atlantic Ave., No. 1180, two-sty dwell.; bld., Isador Green, Liberty Park, N. J.

Doylestown, Pa.—State, Court and Franklin Sts., 4 dwells.; bids have been submitted.

Englewood, N. J.—Hillside Ave., dwell.; own., L. Rockfeller.

Dwell., 40' x 80'; about \$20,000; own., William M. Kiddle; arch., Lamb & Rich, 255 Broadway, New York; con., Andrew D. Bogert.

Eagle St., dwell.; own., Mrs. D. C. Van Horn.

Two-sty frame dwell.; own., Mary E. Lee; arch., William H. Mercereau, 39 Broadway, New York City.

Hamilton Ave., D. W. Cary has plans for a dwell.
F. W. Philips has the contract to build a dwell. for Mr. Odell.

Germantown, Pa.—Pelham Road, s. e. s. w. Cressheim St., three-sty stone dwell., 24' x 74'; own., Wendell & Smith.

Ross St., w. s. e. Penn St., 2 three-sty stone and brick dwells.; con., John Simpson, Queen St.

Hartford, Conn.—Franklin Ave., three-sty brick dwell., 36' x 62'; \$6,000; own., Dr. H. C. Bullock; bld., A. M. Whaley.

Ashley St., three-sty brick dwell.; \$7,000; own., Edw. Dupar; bld., A. M. Whaley.

Vernon St., frame dwell.; \$8,000; own., Louis A. Tracy; bld., W. F. Bentley.

Ann St., No. 130, three-sty brick dwell., 30' x 50'; own., Peter Leroy.

Iron Work.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,

BEAMS, CHANNELS, ANGLES, ZEEs, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.Round, Square and Flat Bars
of all sizes.

SPECIALTIES:

PHENIX COLUMNS AND UPSET EYE-BARS

Of all sizes, in Iron or Steel.

ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.

AGENTS:

New York: EDWARD CORNING & Co., 29 Broadway.

Chicago: A. C. STITES, 931 Rookery Building.

Boston: EDWARD CORNING & Co., 70 Kilby Street.

PASSAIC ROLLING MILL CO.,
PATERSON, N. J.

STEEL BEAMS

4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

NEW YORK OFFICE, - - 43 BROADWAY

BELMONT IRON WORKS, Limited.

Successors to

MANLY & COOPER MANUFACTURING CO.

Ornamental
AND
Architectural
IRON.Twenty-Second Street and Washington Ave
PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Houses Continued.)

Sanford St., No. 960, two-st'y brick dwell., 20' x 60'; own., Theodore Muehr.

Lawrence St., three-st'y brick dwell., 44' x 60'; own., Mrs. Allen.

Bellevue St., No. 83, two-st'y brick dwell., 22' x 43'; own., Isaac Bragan.

Smith St., frame dwell.; \$8,000; own., George H. Kellogg; arch., F. B. Comstock; contract not let.

Lansdale, Pa.—Chestnut and Main Sts., dwell.; own., John Kaulle.

Four brick dwell.; own., Isaac Van Fossen.

Lansdowne, Pa.—Stone and Pompeian brick dwell.; about \$16,000; own., Isaac Keeler, Bryn Mawr; con., J. B. Riemer, Folcroft.

Near West Chester Pike Station, 9 dwells. will be built; own., Henry Albertson and Edward Worth.

Malden, Mass.—Summer St., three-st'y frame dwell., pitch roof, 40' x 64'; \$10,000; own., Eugene Nelson; arch., J. Williams Beal, Boston; contract not let.

New York, N. Y.—Seventy-second St., s. s. 72' e West End Ave., four-st'y brick dwell., flat tin roof; \$45,000; own., H. Clarence Borrett, 218 West 72d St.; arch., C. P. H. Gilbert, 18 Broadway.

Seventy-second St., s. s. 316' 97' w Park Ave., four-st'y brick dwell., 25' x 68', 60' high, flat tin roof; \$60,000; own., Dawson & Archer, 24 East 42d St.; arch., Thom & Wilson, 1267 Broadway.

Caldwell Ave., e. s. 118' 99' n 161th St., 3 three-st'y brick and frame dwell., 18' x 20', 26' x 40', 34' high; \$13,500; own., C. J. Owens, 887 Trinity Ave.; arch., J. H. Valentine, 186 East 116th St.

Southern Boulevard, w. s. 125' n Home St., 2 three-st'y brick and frame dwell., 18' x 20', 26' x 40', 34' high; \$8,000; own., Marie M. Johanneran, 1176 Simpson St.; arch., John DeHart, Fox St., nr. 165th St.

Deanna Pl., s. s. 93' e Teuton Ave., 3 three-st'y brick and frame dwell., 20' x 55', 35' high, flat tin roof; \$15,000; own., George Bettner, Union Ave. and Deuman Pl.; arch., Adolph Pfeiffer, 3068 3d Ave.

One Hundred and Forty-eighth St., s. s. 325' e 11th Ave., three-st'y brick dwell., 16' x 17', 50' x 45' high, flat tin roof; \$30,000; own., Bernard Havanagh, 467 West 147th St.; arch., Thom & Wilson, 1267 Broadway.

Norwood, Mass.—Three-st'y stone dwell., pitch roof, 40' x 83'; own., H. M. Plimpton; bld., H. H. Wardwell & S. B. Woodman; arch., J. Williams Beal, Boston.

Philadelphia, Pa.—Brewster Ave., w. s. n 79th St., one-st'y frame (temporary) dwell.; own., Charles S. Kates, Brewster Ave. and 79th St.

Thirtieth St., w. s. s Arlington St., 9 three-st'y brick dwell., with back buildings; own. and bld., Joseph M. Serrill, Wynook, Pa.

Harnock St., above Ruscomb St., two-st'y brick and frame dwell.; con., William W. Rea & Son, 1815 Francis St.

North Broad St., No. 3-08, Butler St. and Germantown Ave., three-st'y brick and brownstone dwell., 18' x 57'; about \$10,000; own., Adolph Kurts; con., Bowman S. Sterling, 318 Market St.; arch., Robert K. Marple, 706 Walnut St.

Indiana Ave., s. s. e Front St., 2 two-st'y brick dwell., with back buildings; con., David Mawhinny, 538 East Indiana Ave.

Sixteenth St., w. s. s Venango St., 3 three-st'y brick dwell., with two-st'y back buildings; own., J. M. Cassel & Son, 2945 North 9th St.

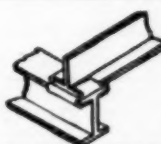
JACKSON ARCHITECTURAL IRON WORKS,
ESTABLISHED 1840.

IRON

Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams, Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings and Fixtures, sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze. Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts.

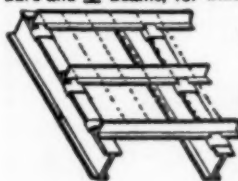
Office, 315 East 28th St., New York.



H. A. Streeter's Patent Clip



ARCHITECTS, OWNERS, CONTRACTORS, and all others interested in Iron or Steel construction will please note that I have PATENTED A STEEL CLIP for connecting Angle or Tee bars to I Beams, etc., which reduces the expense one-half, and does away with the old method of Drilling and Bolting, which is a great saving of Time, besides allowing an easy method of adjusting Tee bars to any desired width of Tills. (This method is now adopted by our principal contractors). Clips furnished ready to apply by sending the Sections and weight of Tee Bars and I Beams, for which connections are wanted.



FOR PRICES AND FURTHER INFORMATION

APPLY TO STREETER

Globe Iron Works,

35-41 E. INDIANA STREET,

CHICAGO, - - - ILL.



ORNAMENTAL

IRON
WORK

PRISMATIC

LIGHT
WORK

BUILDING INTELLIGENCE.

(Houses Continued.)

Fifty-second St., e. s. bet. Henton and Jefferson Sts., 10 three-st'y brick and stone dwell., with back buildings; bld., George W. Sherman, 5328 Oxford St.

Manheim St., s. s. s w Knox St., three-st'y brick dwell., 20' x 48'; con., Joseph M. Rolph, 5032 Knox St.

Eighteenth St., e. s. s Milfin St., 4 three-st'y brick dwell., with back buildings; own., J. C. Gallagher, 1741 Moore St.

Provincetown, Mass.—Two-st'y frame dwell., hip roof, 32' 39' x 46'; own., G. W. Pickering; arch., Dan'l Howard Woodbury, Boston.

Watertown, Mass.—Russell Ave., two-st'y frame dwell., gable roof, 28' 6" x 35'; own., Wm. G. Snow; bld., J. W. Emery; arch., Warren & Bacon, Boston.

MERCANTILE BUILDINGS.

Boston, Mass.—Boylston St., Nos. 194-200 and Park Sq., Ward 11, four-st'y brick mercantile and office-building, flat roof, 50' x 56' x 136'; \$50,000; own., Geo. K. White; bld., S. Brennan & Co.; arch., Shepley, Rutan & Coolidge.

OFFICE-BUILDINGS.

Boston, Mass.—Boylston St., near Arlington St., Ward 11, six-st'y brick building for offices and stores, flat roof, 50' x 124'; \$75,000; own., Elizabeth T. Eldridge; bld., James Smith; arch., W. T. Sears.

PUBLIC BUILDINGS.

Billierica, Mass.—Two-st'y brick and stone building for a town-hall, hip roof, 60' x 102'; own., Town of Billierica; bld., C. H. Nelson; arch., Warren & Bacon, Boston.

Littleton, Mass.—Two-st'y brick structure with terra-cotta trimmings, for a public library, pitch roof, 49' 6" x 56' 6"; own., Clement S. Houghton; bld., R. L. Rutan; arch., Perkins & Betton, 13 School St., Boston.

STABLES.

Brookline, Mass.—Harvard Ave., two-st'y frame stable, pitch roof, 23' x 37'; \$2,500; bld., John W. Bruty; arch., Clarke & Crosby, Boston.

Hartford, Conn.—Ferry St., two-st'y brick stable and warehouse, mill construction, 40' x 40'; own., L. L. Ensworth; bld., Watson H. Bliss & Sons.

Philadelphia, Pa.—Rittenhouse St., Nos. 2023-32,

BUILDING INTELLIGENCE.

(Stables Continued.)

rebuilding 3 two-st'y brick (burned) stables, each 20' x 78'; own., C. Milne; con., Matthew Schmidt, 639 North 6th St.

Greenwich St., Nos. 121-123, two-st'y brick stable; own., Michael Connell, 119 Greenwich St.

Dudley St., n. s. e Front St., one-st'y brick stable; con., C. Michaels, 144 McKean St.

Linden St., n. s. e Large St., two-st'y frame stable; own., George Meek, 1300 Sellers St.

North Twenty-fifth St., No. 791, two-st'y brick stable; con., J. K. Reiner, 2020 North 10th St.

Venango St., n. s. e Kensington Ave., one-st'y brick stable; own., Arthur Hummel, 3015 Kensington Ave.

Worcester, Mass.—Abbott St., one-and-one-half-st'y frame stable; own., Waite & Wetherly; con., Ward & Blanding; arch., A. J. Harrington.

STORES.

New York, N. Y.—Greenwich St., No. 319, five-st'y brick store, flat tin roof, 27' x 100', 57' high; \$22,000; own., E. H. Harrison, Montclair, N. J.; arch., A. R. McIlvaine, 48 Exchange Pl.

Washington Pl., Nos. 538-540, ten-st'y brick store, flat gravel or tile roof, 45' x 74', 136' high; \$72,000; own., Jas. F. & W. S. Fyle, 3 East 53d St.; arch., Thos. R. Jackson, 61 Broadway.

Philadelphia, Pa.—Chestnut St., No. 1731, three-st'y brick and stone store, 20' x 70', with back building, 20' x 35'; own., F. F. Peale; con., George F. Payne & Co., 401 South Juniper St.

South Broad St., No. 1104, three-st'y brick and terra-cotta store and dwell., 20' x 60', with back building, 14' x 14'; own., Joseph A. Robbins, 227 South 6th St.

North Front St., No. 3220, two-st'y brick store and dwell., with back building; con., Valentine Lind, 3210 Lee St.

Pittsburgh, Pa.—Second Ave., near American St., three-st'y brick store and dwell.; own., L. M. Martine; arch., F. C. Sauer, 547 Liberty St.; con., J. D. Mars.

Tamaqua, Pa.—Three-st'y brick and terra-cotta building, 40' x 70'; the ground-floor will be occupied by two large stores; own., Harmony Lodge, No. 86, I. O. O. F.; arch., Walters & Plack, 1414 South Penn Sq., Philadelphia.

THE J. L. MOTT IRON WORKS,

84 to 90 Beekman Street, New York.

311 and 313 Wabash Avenue, Chicago.

322 and 324 Boylston Street, Boston.

Wainwright Building, St. Louis.

Flood Building, San Francisco.



Copyright, 1893, by THE J. L. MOTT IRON WORKS, in their publications. Plate 1087G. (Reduced cut.)

IMPERIAL PORCELAIN ROLL-RIM BATHS.

ILLUSTRATED PRICE-LIST MAILED ON APPLICATION.

FINE appearance, durability, and perfection from a sanitary standpoint are all combined in these baths. They entail no labor, scouring or burnishing, requiring merely to be wiped out with a sponge to be thoroughly cleaned.

Interested parties are invited to visit our showrooms and examine these and other sanitary appliances.

BUILDING INTELLIGENCE.

TENEMENT-HOUSES.

Hartford, Conn. — Ann St., 3 brick tenements, 30' x 45'; arch. and bld., Theo. Newton & Co.
Alden St., 6 frame tenements; own., Timothy E. Scanlan; bld., Wm. O. Brien; arch., Newton & Co.

WAREHOUSES.

Baltimore, Md. — Two four-st'y brick warehouses, s s Fayette St., bet. Sharp St. and McClellan's Alley; own., S. S. Clayton, 1303 McCulloh St.
Philadelphia, Pa. — Walnut St., n s, above 32d St., frame and iron shed, 20' x 55', for storage; own., James Garrett, n e cor. Walnut and 32d Sts.
Shackamaxon and Beach Sts., four-st'y brick flour warehouse, 60' x 170'; estimated cost, \$100,000; own., Merchant's Warehousing Co.

MISCELLANEOUS.

Brooklyn, N. Y. — Thirty-seventh St., n w cor. Church Ave., one-st'y brick street-car house, 168' 9" x 157' 6", galvanized corrugated iron roof; \$22,000; own. and arch., Johnson & Edwards, 43 Thirty-ninth St.
Thirty-seventh St., n e cor. Church Ave., brick repair shop, 44' x 45' 4", corrugated iron roof; \$10,000; own. and arch., Johnson & Edwards, 43 Thirty-ninth St.
Meserole St., n e cor. Bogert St., 36' 6" high gas holder, 14 1/2' in diameter, brick wall; \$6,000; own., Fulton Municipal Gas Co., Court and Joralemon Sts.; arch., Bartlett, Hayward & Co., 15 Wall St., New York City; bld., John McNamee, 16 Court St.

Chestnut Hill, Pa. — Summit St., s Railroad, two-st'y stone and brick building; con., R. P. Mattson, rear 321 Arch St., Philadelphia.

Chicago, Ill. — Metropolitan Railroad (elevated), one-st'y and basement brick stations, 567-569 West Madison St.; \$4,000; 612-644 West Lake St.; \$4,000; 541-545 West Indiana St.; \$4,000; 530-532 West Chicago Ave.; \$4,000; 255-257 West Division St.; \$4,000; 735-739 North Robey St.; \$4,000; 1066-1012 North Western Ave.; \$4,000; 1212-1214 North California Ave.; \$4,000; 137-141 Linden Pl.; \$4,000; 832-854 North Western Ave.; \$4,000; 851-856 North California Ave.; \$4,000; 852-854 North Kedzie Ave.; \$4,000; 853-855 Bolton St.; \$4,000; 853 Lawndale Ave.; \$4,000.

Germantown, Pa. — Johnson St., No. 43, one-st'y brick engine and battery house; con., Jacob M. Heller, 144 Lehman St.

Mill and Chew Sts., four-st'y convent of the Sisters of the Good Shepherd; arch., John Flynn, Walnut St., s e cor. 6th St.

Media, Pa. — Joseph Seal has the contract for the Media Club-house.

Philadelphia, Pa. — Walnut St., n e cor. 12th St., Baily & Truscott, architects, 136 South 4th St., are receiving bids on four-st'y Protestant Episcopal Diocesan House; brick, stone and iron construction.
Salmon St., e s, s Lefevre St., one-st'y frame wagon-shed and stable; own., L. Lepkowski, 4485 Salmon St.

Fairmount Park, near School Lane, 2 one-st'y stone, iron and brick pumping-station, 81 1/2' x 136 1/2', and 81 1/2' x 180 1/2'; con., I. H. Hathaway & Co., 514-15 Girard Building.

Bainbridge St., n w cor. 24th St., one-st'y iron



"DUPLIX" THE BEST WATER CLOSET IN THE WORLD

*Quiet in Operation,
Positive in Action,
Elegant in Appearance*
—AND—
Sanitarily Perfect.

FRED. ADEE & CO.,
90 BEEKMAN ST.,
NEW YORK.

BUILDING INTELLIGENCE.

(Miscellaneous Continued.)

shed, 18' x 22'; con., Benner & Opdyke, 1430 South Penn Sq.

Thornton St., s e s, n Coinly Road, two-st'y brick carriage-house; own., John Kieger, Byberry.

Logan St., n e cor. Morris St., two-st'y brick carriage-house; con., John O. Broadbent, 25 Lafayette St.

Fairmount Ave., s e cor. 9th St., frame shelter-shed; own., Philadelphia & Reading Railroad Co., Market and 12th Sts.

Nicetown Lane and Old York Road, 2 frame shelter-sheds, 90' x 200' and 32' x 80'; own., Peerless Brick Co., 24 South 7th St.

Staub St., n s, e Germantown Ave., frame and corrugated iron wagon-shed, 30' x 50'; own., J. B. Staub, Jr., 4155 Germantown Ave.

Memphis St., n e cor. Westmoreland St., frame shelter-shed, 30' x 40'; own., Michael J. Quinn, 1710 North 6th St.

Frankford Creek and Church St., two-st'y frame boat-house; con., Harry R. Hendricks, 5929 Torresdale Ave.

Pott St., n s, e Broad St., six-st'y brick power-house and lodging-rooms for the Lorraine apartment-house at Fairmount Ave. and Broad St.; about \$11,000; con., Michael Magee, 1516 North 8th St.

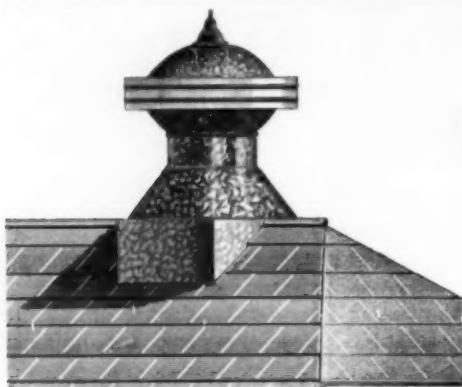
Orthodox and Pierce Sts., one-st'y frame dyeing and boiler-house, 28' x 38'; own., Gordon Bros., Orthodox and Pierce Sts.

Phoenixville, Pa. — S. R. March has the contract for excavations for the new building for the Phoenix Gas Light and Fuel Co.

PROPOSALS.

Treasury Department, Office Supervising Architect, Washington, D. C., August 6, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 14th day of September, 1894, and opened immediately thereafter, for all the labor and materials required for the stone and brickwork of the superstructure, etc., of the United States Post-office and Court-house at Kansas City, Mo., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Kansas City, Mo. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Stone and Brickwork of the Superstructure, etc., of the United States Post-office and Court-house at Kansas City, Mo.," and addressed to JEREMIAH O'Rourke, Supervising Architect. 973

Treasury Department, Office Supervising Architect, Washington, D. C., August 2, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 29th day of August, 1894, and opened immediately thereafter, for all the labor and materials and fixing in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus required for the United States Post-office building at Galveston, Ill., in accordance with the drawings and specification, copies of which may be had at this office or the



The Proverbial Cucumber

is not cooler than a

HOUSE, HALL, CHURCH OR FACTORY

that is ventilated by the

GLOBE VENTILATOR.

Send for Circular on the Subject.

GLOBE VENTILATOR COMPANY,
TROY, NEW YORK.



BROUGHTON'S
PATENT

SELF CLOSING
BASIN COCK
EVERY ONE
WARRANTED

Send for Circulars.

Stebbins Manufacturing Co., Brightwood, Mass.
SOLE MANUFACTURERS.

PROPOSALS.

office of the Superintendent at Galesburg, Ill. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Heating and Ventilating Apparatus for the United States Post-office building at Galesburg, Ill.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 973

ELECTRIC RAILWAY BUILDINGS.

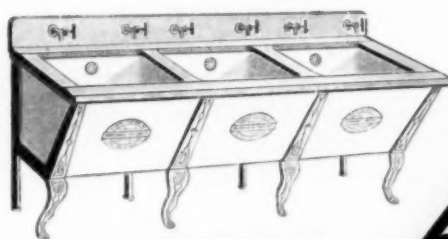
[At Conway, Mass.]
Proposals are wanted until August 18, for the buildings for the Conway Electric Street Railway. Address same, as above. 972

CEMENT.

[At Pittsburgh, Pa.]
UNITED STATES ENGINEER OFFICE,
PITTSBURGH, PA., July 31, 1894.
Sealed proposals for 2,250 net tons, more or less, of American Natural Hydraulic Cement will be received here until 12 M., August 20, 1894, and then publicly opened. All information furnished on application. R. L. HOXIE, Captain of Engineers, United States Army. 973

CANAL WORK.

[At Bureau Junction, Ill.]
UNITED STATES ENGINEER OFFICE,
2238 WABASH AVE.,
CHICAGO, ILL., July 27, 1894.
Sealed proposals, in triplicate, for constructing four miles or less of the eastern section of the Illinois and Mississippi Canal between Mile 0 and Mile 4 near Bureau Junction, Ill., and for excavating the lock pits and constructing the foundations for four locks will be received here until 12 noon, central time, August 27, 1894, and then publicly opened. All information furnished on application here or to Assistant Engineer James C. Long, Tiskilwa, Ill. W. L. MARSHALL, Captain, Corps of Engineers. 973



SOLE MANUFACTURERS OF
MORAHAN'S PATENT SOLID WHITE
CROCKERY STATIONARY

WASH TUBS

Perfectly Glazed, Smooth Surface.
No labor required to keep clean.
Cannot absorb, leak or decay.
Not affected by heat or cold.
No seams to open. Very strong.
Over 50 years on the market.
Warranted for thirty years against
injury, violence excepted.
Thousands in use.
BEWARE OF IMITATIONS.

The Only PERFECT
SANITARY TUBS
in Existence.

312
PEARL STREET,
COR. FRICK BLVD.
NEW YORK.

259 WABASH AVENUE,
CHICAGO, ILL.

Three Highest Awards Columbian Exposition.



SOLID WHITE
CROCKERY

BUTLER'S
PANTRY, SLOP &

KITCHEN SINKS.

SAME MATERIAL AND STRENGTH AS TUBS.

ENAMELLED FRENCH BATHS.

With
Patent Supply
and
Waste.

Send for New Catalogue.



MANUFACTURERS OF
AND DEALERS IN
PLUMBERS' SUPPLIES
— AND —
SANITARY SPECIALTIES.

Haines, Jones & Cadbury Co.,

No. 1136 Ridge Avenue, Philadelphia, Pa.

THE VAN VRANKEN FLUSH TANK.

For Sewers, Subsoil Disposal, etc.
For catalogues, discounts and other particulars, address
J. LELAND FITZGERALD,
437 STATE STREET, SCHENECTADY, N. Y.

PROPOSALS.

HEATING AND VENTILATING.

[At Cincinnati, O.]
Proposals are wanted until August 10, for heating and ventilating plant of main structure of new University. Address JAMES M. ROBINSON, Chairman Committee on Plans and Construction, as above. 972

STATION-HOUSE.

[At Cincinnati, O.]
Proposals are wanted until August 14, for new station-house on York St. Address W. H. HARRISON, Clerk of Board of Police Commissioners, as above. 972

COURT-HOUSE.

[At Bayfield, Wis.]
Proposals are wanted until August 15, for a new court-house. Address JOHN FROSETH, County Clerk, as above. 972

"THE CAST SINK MUST WIN"

THE COLUMBUS
WROUGHT STEEL SINK DISPLACES,
ALL OTHERS

PAINTED, GALVANIZED, ENAMELLED.

Send for descriptive circular and prices, to
The Kilbourne & Jacobs Mfg. Co.
Sole Manufacturers. — COLUMBUS, OHIO.

PROPOSALS.

HEATING AND VENTILATING.

[At Scranton, Pa.]
Proposals are wanted until August 13, for heating and ventilating apparatus for school building. Address EUGENE D. FELLOWS, Secretary Board of Control, as above. 972

ENGINE-HOUSE, ETC.

[At New York, N. Y.]
Proposals are wanted until August 22, for an engine and boiler house, tower and chimney for high service works at the new aqueduct. Address MICHAEL T. DALY, Commissioner of Public Works, as above. 973

Fire-proof Building.**RARITAN HOLLOW AND POROUS BRICK CO.,**

MANUFACTURERS OF

Hollow Fire-Clay and Porous Terra-Cotta Bricks

of Every Description, for Fireproof Buildings.

BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.

Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.

Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.

HENRY MAURER & SON,

Manufacturers of

FIRE-PROOF BUILDING MATERIAL

Of every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.

Porous Terra-Cotta, Fire-Brick, etc., etc.

Works, MAURER, N. J. Office and Depot, 420 EAST 23d STREET, New York.

Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."

**C. PARDEE
WORKS,**Manufacturers All Kinds Fireproof Building Materials, etc.
Perth Amboy, N. J. See ad. on page XVI.**PIONEER FIREPROOF
CONSTRUCTION CO.**

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile AND Porous Terra-Cotta**FOR FIREPROOFING BUILDINGS.**

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

**TO ARCHITECTS,
BUILDERS
AND OWNERS.**

Sample and Circulars Free.

Attention is called to Fireproof and Vermin-Proof

MINERAL WOOL,As a Lining in Walls and Floors for preventing the
ESCAPE OF WARMTH AND THE DEADENING OF SOUND.**AMERICAN MINERAL WOOL CO.**

Lessee of

Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N.Y. City.

Roebling^{STANDARD} Wire Lathing
FIREPROOF—DURABLE—ECONOMICALPays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures
a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three
public tests—detailed accounts of which will be mailed to any address upon request.**THE NEW JERSEY WIRE CLOTH COMPANY,
TRENTON, N. J.****Building Stones.****J. P. FALT & COMPANY,**

Quarrymen & Miners of

RED SANDSTONE.

Contractors for CUT-STONE WORK.

Proprietors of Carlisle Quarries, Springfield, Mass.
Prices for rough stone furnished on application,
and estimates made for cut-stone work to be delivered
at any railroad point. Correspondence solicited.
Send for samples.**BOSTON FIRE-BRICK WORKS.****FRONT BRICK**BUFF, BROWN, MOTTLED YELLOW,
GRAY, OLD GOLD AND
OTHER COLORS.**ARCHITECTURAL
TERRA-COTTA**

In all its varied colors and forms.

FISKE, HOMES & CO.,

MANAGERS,

Factories on Federal Street and
at South Boston.

Office, 164 Devonshire St., Boston.

Times Building, Park Row, New York.

927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.

SOLE OWNERS AND MANUFACTURERS OF

J. G. MERRILL'S PATENT

SALAMANDER

Fire-Proof Composition

FOR BUILDINGS.

Used as Lining between
Floors, and upon Walls,
Ceilings, Elevator and
Light Shafts, Boiler Rooms,
Doors, Shutters, etc. It is
Air, Dust, and Vermin
Proof, and a Sound-

Deadener.

Office, 166 Devonshire Street, BOSTON.

A. J. HODDER, Pres.
CHAS. T. BAKER, Treas.
W. D. LOMBARD, Gen. Mgr.Represented by Master Builders
Association Building.

For estimates on

**ASPHALT
WORK**of every descrip-
tion apply to Man-
ager,

T. Hugh Boorman,

N. Y. Mastic Works, 35 Broadway, N. Y.
Asphalt Mine Owners in France, Sicily, etc.**BROOKS, SHOEBRIDGE & CO.,****PORTLAND CEMENT.**Works: Grays, Essex, England.
New York Office: 7 Bowling Green.**Massachusetts Material-Men and Contractors.**

ARTIFICIAL STONE.	FIREPROOFING.	HEATING CONTRACTOR.	PAPIER MACHÉ.
SIMPSON BROS. 166 Devonshire St. Boston, Mass.	BOSTON FIREPROOFING CO. 166 Devonshire St. Boston, Mass.	W. E. FLORENCE, 247 Pyncheon St. Boston, Mass.	CONLAN & MAYBECK, 65 Warcham St. Boston, Mass.
BUILDING CONTRACTORS.	FURNACES.	IRON WORK. (Building)	PRINTING.
LITTLEFIELD BUILDING CO. Incorporated. Room 57, 166 Devonshire St. Boston, Mass.	CYRUS CARPENTER & CO. 44 Hanover St. Boston, Mass.	R. F. HAWKINS' IRON WORKS, Springfield, Mass.	S. J. PARKHILL & CO. 218-226 Franklin St. Boston, Mass.
CARVERS, MODELLERS.	GRANITE.	MANTELS. (Wood)	SASH CORD.
JOHN EVANS & CO. 77 Huntington Ave. Boston, Mass.	GRANITE RAILWAY CO. 166 Devonshire St. Boston, Mass.	J. W. BAILEY & SONS CO. 14 Charlestown St. Boston, Mass.	SILVER LAKE CO. 78 Chauncy St. Boston, Mass.
ELECTRIC WORK.	HEATING. (Air & Water)	MASON CONTRACTORS.	SLATE. (Roofing)
BLODGETT BROS. & CO. 383 Federal St. Boston.	MAGEE FURNACE CO. 30-8 Union St. Boston, Mass.	THOMAS J. LYONS, 166 Devonshire St. Boston, Mass.	H. H. MATHEWS, 178 Devonshire St. Boston, Mass.

Bricks and Terra-Cotta.

HYDRAULIC BRICK, PLAIN AND MOULDED OF ANY COLOR. RED, BUFF, GRAY, BROWN, PINK, MOTTLED, GRANITE.

Total Annual Capacity, 100,000,000.
HYDRAULIC-PRESS BRICK CO.,
ODD FELLOWS' BUILDING,
ST. LOUIS, MO.

PERTH AMBOY
TERRA-COTTA COMPANY,
— OF —
PERTH AMBOY, NEW JERSEY.
OFFICE, 289 Fourth Ave., NEW YORK.

PHILADELPHIA
OFFICE,
PHENIX BLDG.

BOSTON AGENTS,
WALDO BROS.,
88 Water Street.

TIFFANY PRESSED BRICK CO.,
Manufacturers of
Pressed and Enamelled Brick,
Plain and Ornamental,
403 Chamber of Commerce Bld'g,
CHICAGO.

BUILDING-BRICK.

YARDS at West Brimfield, Mass., on Boston & Albany R. R., and at Amherst, Mass., on Central Vermont R. R. (New London Northern Div.) and Boston & Maine R. R. (Central Mass. Div.).

CAPACITY, 7,000,000 Annually.
Address, MARCY & GARDNER,
PALMER, MASS.

"Architects" SPECIFY LAFARGE'S CEMENT

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,

Importer and Sole Agent,
81 and 83 Fulton St., N. Y.

GOETZ BOX ANCHOR

SELF RELEASING AND PREVENTS
DRY ROT IN TIMBER.

GOETZ POST CAP

STRONGEST OF ALL AND YET
SELF RELEASING.

GOETZ JOIST HANGER

WROUGHT IRON MACHINE MADE.
STRONGEST AND CHEAPEST.
BORE TWO HOLES. NO MORTISING.

GOETZ BOX ANCHOR CO.,
72 STATE ST., NEW ALBANY, IND.



SEND
FOR
CATALOGUE.

NEW YORK ARCHITECTURAL TERRA COTTA COMPANY.

OFFICE,
38 PARK ROW,
New York City.

WORKS,
LONG ISLAND CITY,
New York.

GENERAL AGENTS FOR NEW ENGLAND:
BOSTON FIRE BRICK COMPANY,
Fiske, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.

STEPHENS, ARMSTRONG & CONKLING,
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, - - - Philadelphia, Pa.

— INDIANAPOLIS — TERRA-COTTA CO.

Works: Brightwood, Ind.
ESTIMATES ON SPECIAL DESIGNS PROMPTLY
FURNISHED. WRITE FOR CATALOGUE
AND DISCOUNTS.
SEMI-GLAZE OR DEAD-FINISH.
ALL COLORS.

POMPEIIAN, BUFF AND RED PRESSED, ALSO ORNAMENTAL

FACE BRICK MANUFACTURE.

CAPACITY, 100,000,000 PER ANNUM.

BRICK FIREPLACES.

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

FRONT BRICKS — AND — TERRA-COTTA

— IN OVER TWENTY COLORS. —

Chimney Flue Linings, Chimney Tops, Drain
Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,
86 WATER STREET, - - BOSTON.

THE
Northwestern Terra-Cotta Co.
Manufacturers of

Architectural Terra-Cotta.

WORKS & MAIN OFFICE:
Cor. Clybourn & Wright-
wood Avenues.

CITY OFFICES:
Room 1118 Rookery Bldg.
cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for
Catalogue and Samples.

BRICK OF ANY COLOR AND OF ALL SHAPES.



NO. 3 SPANISH.

BALTIMORE ROOFING TILE CO.

BURNS, RUSSELL & CO., Proprietors,
535 Columbia Avenue, Baltimore, Md.,

MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other
styles of Clay Roofing Tiles in all colors,
glazed or unglazed.

CATALOGUE ON APPLICATION.



ROMAN

C. PARDEE WORKS, Perth Amboy, N. J.
MANUFACTURERS
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIREPROOF BUILDING MATERIALS, ETC.

THE GENUINE

Taylor "OLD STYLE" brand OF ROOFING TIN.

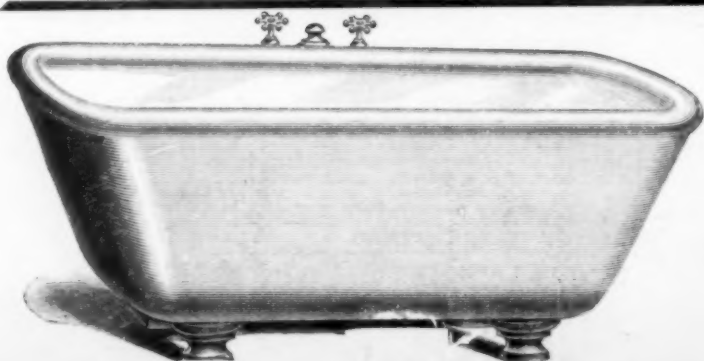
The EFFORTS made to IMITATE the Genuine Taylor "Old Style" Brand of
Roofing Tin is the best proof of the high esteem in which it is held. See that
you get the Genuine. Remember that every sheet has our name and registered
Trade Mark of Target and Arrow stamped upon it.

N. & C. TAYLOR CO., Manufacturers,
PHILADELPHIA.

Porcelain Bath Tubs

"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.

"SLUICE" Syphon Jet Water Closet.



MINTON'S TILES

For Bathrooms, Halls and Vestibules; Glazed,
Unglazed and Enamelled.

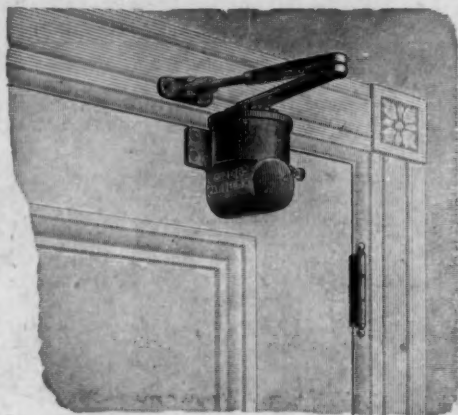
MILLER & COATES, 279 PEARL STREET
NEW YORK.

260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.

At the World's Columbian Exposition
HAS BEEN AWARDED TO
 DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.

BLACK, RED, BROWN, BUFF. NEW COLORS, MOSS GREEN, ROYAL PURPLE, FRENCH GREY, POMPEIIAN BUFF, COLONIAL DRAB.
THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.

SAMUEL H. FRENCH & CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.



Embodies all the latest improvements, and is the neatest, most perfect in action, and most durable of any in the market. Prices low.

For single or double acting doors. Operate without noise or violence.

The most pleasing and satisfactory in the market. Cannot come loose from the shank. Every Knob warranted. New styles and reduced prices.

J. BARDSLEY.

140 and 151 Baxter Street. - - - - NEW YORK.

Morse, Willams & Co.,
Electric and Hydraulic High Speed
Passenger Elevators.

Steam, Belt and Hand Power Freight Elevators.
 1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.
 19 Pearl St., Boston. 82 Church St., New Haven.
 714 Omaha Building, Chicago. 1116 E. St. N. W., Washington, D. C.

THE MATTHEWS DECORATIVE GLASS CO.
MANUFACTURERS OF
ORNAMENTAL GLASS in Sheets or from Special Design
By the SAND-BLAST and other Patented processes.
CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,
Gold and Silver Embossed, and Transparent Glass Signs. Marbled Glass
for Callings. Estimates promptly furnished on application.
328-330 E. 26th Street, New York City.

The (E) indicates that the advertisement may be found in the last or the following issue; the (M) that it may be found in the first issue for each month.

[illegible]

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th St.
NEW YORK CITY.

Designers and Manufacturers of...

MANTELS
OPEN FIREPLACES..
GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 65 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.

PRIZE MEDALLISTS.

EXHIBITION OF 1882, 1885, 1887, 1872, 1873, AND ONLY AWARD AND MEDAL FOR
NOISELESS, SELF-COLLING STEEL SHUTTERS AT PHILADELPHIA,
1876; PARIS, 1878; AND MELBOURNE, 1881.

CLARK, BUNNETT & CO. (Limited)

Late CLARK & COMPANY,

ORIGINAL INVENTORS AND SOLE PATENTEES OF NOISELESS

Self-Colling, **STEEL SHUTTERS** Fire & Burg-
lar Proof.
Also Improved Rolling Wood Shutters, and Clark's Patent
Metallic Venetian Blinds.

The BEST in the Market. Send for Catalogue, etc., to

162 and 164 West 27th St. - - New York.

ALSEN'S

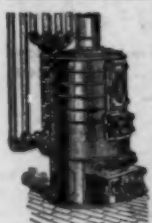
PORTLAND CEMENT

(GERMAN.)

The Strongest, Finest Ground and Most Uniform
Cement Made in the World.

The Largest Works and Greatest Production.

U. S. OFFICE, 143 Liberty Street, NEW YORK.



300 Series Hot-Water Heater

**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

We invite Correspondence.
Send for Catalogue.

HEAD
OFFICE:

Gurney Heater Mfg. Co.

163 Franklin St., Cor.
Congress, Boston, Mass.

SELLING AGENCIES.

JOHNSON & Co., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHSEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

Endorsed by the leading
Architects and Engineers.



Gurney Steam Boiler

JAS. G. WILSON, Patentee and
Manufacturer,

74 West 23d St., New York.



Rolling Steel Shutters.



Rolling Venetian Blinds.



Rolling Partitions.



English Venetian Blinds.

N.J. STEEL & IRON CO.
TRENTON, N.J.

IRON AND STEEL BEAMS

CHANNELS, ANGLES & TEES

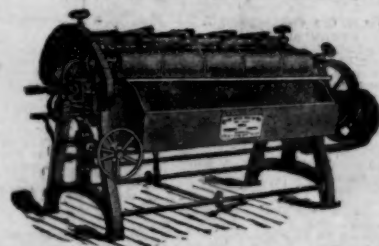
COOPER, HEWITT & CO.
NEW YORK.

TROY LAUNDRY MACHINERY CO.

(LIMITED.)

FACTORIES: { 648-650 Fulton St., Troy, N. Y.
305-405 Fifth Ave., Chicago, Ill.

SALESDROOMS: { 15 Warren St., New York.
581-583 Mission St., San Francisco, Cal.



Our line the largest and most com-
plete in the world.

Send for Illustrated Catalogue Z.



80-Paged Illustrated Catalogue
of over 250 Designs of
Superior

**WEATHER VANES,
TOWER ORNAMENTS,
CHURCH CROSSES,
FINIALS, Etc., Etc.**

Mailed to any address for 2-cent
stamp-half the postage.

T. W. JONES, Manufacturer,
170-172 FRONT ST., New York.



SUPERIOR
FOR
WORK UNDER WATER

STANDS EVERY HIGH TEST

ADAPTED FOR
HEAVY
MASONRY

HOFFMAN ROSENDALE
MADE FROM THE
BEST ROCK
ALWAYS RELIABLE
UNIFORM IN QUALITY
STRONGEST AMERICAN
CEMENTS

WHEELER'S PATENT WOOD FILLER.

The only Article to give a

DURABLE, ECONOMICAL, NATURAL and PERFECT FINISH to HARD WOOD

Send for Pamphlet Giving Information on Finishing Hard Wood.

THE BRIDGEPORT WOOD-FINISHING CO., NEW MILFORD, CONN.

GRANVILLE M. BREING, General Agent and Superintendent. New York Office, 240 Pearl St. Chicago, 205 East Lake St
New England Agents: Charles Richardson & Co., 85 & 89 Oliver St., Boston, Mass.

At the World's Fair, Chicago, 1893, as at every place ever exhibited, our WHEELER'S PATENT WOOD FILLER and BREING'S
LITHOGEN SILICATE PAINT received medal and highest awards.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen. Agts.,
Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Masons' Materials.

Send for Pamphlet.

THORN'S

METALLIC ROOFING,

Tiles and Spring-lock Shingles.

8 DESIGNS

The best, most handsome,
durable and secure roofing
plates yet offered to the
building trade. Indorsed
by all the leading archi-
tects. Send for catalogue.

**Thorn Shingle and
Ornament Co.,**

1227 Callowhill St., Philadelphia.

THE AMERICAN ARCHITECT

AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. XLV.—No. 973.]

SATURDAY, AUGUST 18, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS.
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Ricker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE.
Louis De Coppet Berg.

PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.

COOPER INSTITUTE.
E. A. Miller.
E. F. Maurer.

INSTITUTE OF ARTIST-ARTISANS.
140 West 23d Street.
John Ward Stimson.

METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.
S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Truscott.

UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

[Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.]

CONSTRUCTION.

BERG, LOUIS D'G. Two Vols., each \$5.00
"Safe Building."
New York (66 Fifth Ave.): Macmillan & Co.

CHANDLER, F. W. \$10.00
"Construction Details."
Boston (211 Tremont St.): Heliotype Printing Co.

LARK, T. M. \$3.00
"Building Superintendence." Guts.
New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts, \$2.00 each.
"Architectural Rendering in Pen and Ink."
Boston (211 Tremont St.).

WARE, WILLIAM R., PROFESSOR, \$5.00
"Modern Perspective."
New York (66 Fifth Ave.): Macmillan & Co.

STYLES.

GOTCH, J. A., and W. T. BROWN 6 Parts, \$48.00
Four Parts now ready
"Architecture of the Renaissance in England."
New York (743 Broadway) Charles Scribner's Sons.

WHITTIER MACHINE CO., ELEVATORS,

53 STATE STREET - - BOSTON.
93 LIBERTY STREET, NEW YORK.
526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD
For all kinds of
PASSENGER AND FREIGHT ELEVATOR SERVICE.

OTIS BROTHERS & CO.,
NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,
ELEVATOR AND MACHINE WORKS,
COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.
STEAM AND HYDRAULIC,
For Freight and Passenger use.

ELECTRIC ELEVATORS. THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,
For passenger and freight service.
Large experience. Many in use.
First cost moderate.
Running Expense much less than Hydraulic.
Also makers of low-speed Perret Electric Motors and Dynamos.

General office and factory, Springfield, Mass.
NEW YORK OFFICE, 126 Liberty Street.
BOSTON OFFICE, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES,
For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate. References, Principal Architects and Decorators of New York.
AESCHLIMANN & PELLARIN,
37 CLINTON PLACE,
Between Broadway and University Place, New York.

SANITARY CONDITION OF
DWELLINGS examined by T. H. DUGGAN,
Plumber, 141 DARTMOUTH STREET, BOSTON.
Fine Plumbing Materials, First-class Workmanship.
Telephone call, Tremont No. 165.

"TIFFANY" CLASS OF DECORATING COMPANY.

FURNISHERS OF GLASS WORKERS DOMESTIC & ECCLESIASTICAL
DECORATIONS. G.D. MEMORIALS.
333 TO 341 FOURTH AVENUE, NEW YORK.

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHERE & Co.),
Importers and Workers of
MARBLE, ONYX AND GRANITE,
425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

THE VERY BEST

Cement is the F. O. Norton Brand.
OFFICE, 92 BROADWAY, NEW YORK.

STANDARD ELEVATOR CO.,

HIGHEST GRADE

PASSENGER }
AND } ELEVATORS.
FREIGHT }

OFFICE AND WORKS,

15th Street and Ashland Ave.,
Chicago, Ill.

PENN ELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.
PASSENGER AND FREIGHT ELEVATORS,
every description.
See our new Electric and Hydraulic before purchasing.
Works, Bloomsburgh, Pa.
Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.
GENERAL OFFICE, PALMER, MASS.
We contract to perform all labor and furnish all material of the different classes required to build complete
CHURCHES, HOTELS, MILLS, PUBLIC
BUILDINGS AND RESIDENCES.
Also for the construction of
RAILROADS, DAMS AND BRIDGES.

We solicit correspondence with those wishing to place the construction of any proposed new work under ONE CONTRACT, which shall include all branches connected with the work. To such parties we will furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO.,

STAINED GLASS & DECORATIVE WORK.
Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.
Sole Agents for
CLAYTON & BELL, GLASS STAINERS, LONDON.
61 Washington Square, South, New York, N. Y.

ROBERT C. FISHER & CO.,

Successors to FISHER & BIRD,
MARBLE AND GRANITE WORKS,
97, 99, 101 and 103 EAST HOUSTON STREET,
Established 1830. NEW YORK

THE best investment in real-estate is to keep buildings well painted. Paint protects the house and saves repairs. You sometimes want to sell—many a good house has remained unsold for want of paint. The rule should be though, "the best paint or none." That means

Strictly Pure White Lead

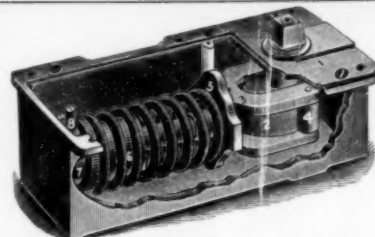
You cannot afford to use cheap paints. To be sure of getting Strictly Pure White Lead, look at the brand; any of these are safe:

- "ANCHOR" (Cincinnati).
- "ARMSTRONG & McKELVY" (Pittsburgh).
- "ATLANTIC" (New York).
- "BEYMER-BAUMAN" (Pittsburgh).
- "BRADLEY" (New York).
- "BROOKLYN" (New York).
- "COLLIER" (St. Louis).
- "CORNELL" (Buffalo).
- "DAVIS-CHAMBERS" (Pittsburgh).
- "ECKSTEIN" (Cincinnati).
- "FAHNESTOCK" (Pittsburgh).
- "JEWETT" (New York).
- "KENTUCKY" (Louisville).
- "JOHN T. LEWIS & BROS. CO." (Phila.).
- "MORLEY" (Cleveland).
- "MISSOURI" (St. Louis).
- "RED SEAL" (St. Louis).
- "SALEM" (Salem, Mass.).
- "SHIPMAN" (Chicago).
- "SOUTHERN" (St. Louis and Chicago).
- "ULSTER" (New York).
- "UNION" (New York).

FOR COLORS.—National Lead Co.'s Pure White Lead Tinting Colors. These colors are sold in one-pound cans, each can being sufficient to tint 25 pounds of Strictly Pure White Lead the desired shade; they are in no sense ready-mixed paints, but a combination of perfectly pure colors in the handiest form to tint Strictly Pure White Lead.

A good many thousand dollars have been saved property-owners by having our book on painting and color-card. Send us a postal card and get both free.

NATIONAL LEAD CO., New York.



Checking Spring Hinges, For SWING DOORS.

APPLIED IN FLOOR UNDER DOOR.

They close the door gently, without noise or violence and stop it at once at the centre. Doors can not sag. Springs do not break or set.

J. BARDSLEY,

149-151 Baxter St., - NEW YORK.

Illustrated Price-list on application.



Unequaled for all purposes for which Portland Cement is used. Tests and Testimonials of Engineers, and "How to Use Portland Cement," sent free on application.

BUCKEYE PORTLAND CEMENT CO., BELLEFONTAINE, OHIO.

RITCHIE'S PATENT CORRUGATED EXPANDING CONDUCTOR. (See our advertisement last week.) LAMB & RITCHIE, Cambridgeport, Mass.

GRAVES ELEVATORS
SAFETY, SPEED AND ECONOMY COMBINED
NEW YORK 92 & 94 LIBERTY ST.
BOSTON 53 STATE ST.
DETROIT HODGES BUILDING
ATLANTA, GA. INMAN BUILDING
GRAVES ELEVATOR CO.
ROCHESTER, N.Y.
SEND FOR CATALOGUE.

PORCELAIN LINED REFRIGERATORS and Cooling Rooms under the Wickes System. Mechanical Refrigeration under the Westinghouse System. WICKES REFRIGERATOR COMPANY, 860 Broadway, N. Y.

Drawing-Office.

Drawings rendered in line or color with reasonable despatch.

ADDRESS

Editors of the American Architect.

WOOD-CARPET THE VERY BEST MATERIAL FOR

BORDERS FOR RUGS

Also for Covering Parlors, Dining, Sitting and Bath Rooms, Libraries, Offices, Stairs, Stores, etc. Send stamp for Book of Designs.

E. B. MOORE & CO., 48 Randolph Street, Chicago, Ill.

ESTABLISHED 1853.

HOWSON & HOWSON, COUNSELLORS AT LAW, SOLICITORS OF PATENTS.

Philadelphia Offices: 119 South Fourth Street, New York: Potter Building, 38 Park Row, Washington, D. C.: 915 F. Street.

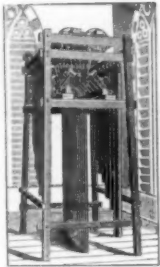
BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors)		
Foundation:				
Dimension.....	5 00 @ ton.	20 @		5 00
Block.....	4 60 @ perch.	75 @		Conshocken 1 45 @ 2 50
Rubble.....	1 25 @ 1 50	8 50 @		1 in. th. 10 @ 25
Bluestone: \$ sq. ft.)				37 @ 50
Sidewalk.....	30 @ 5 00	40 @ 1 75		
Planed.....	50 @ 6 00	75 @		
Sandstone:				
Longmeadow.....	80 @	80 @ 90	1 50 @ cub. ft.	
Kibbe.....	90 @	90 @ 1 10	45 @ 50	
Brown (Connecticut).....	1 00 @	1 25 @ 1 45	45 @ 55	
Amherst Ohio.....	90 @ 95	90 @ 1 00	55 @ 65	
Berea.....	75 @ 1 00	85 @ 90	85 @ 1 25	
Berlin.....	75 @ 1 00	80 @ 90	85 @	
Belleville.....	80 @ 1 25	25 @ 1 35	85 @ 95	
New Brunswick (Dorchester).....	@ 1 00	1 75 @ 90	1 00 @ 1 10	
Caen.....	@	@ 2 00	1 05 @ 1 15	
Carlisle, English.....	@ 1 05	@ 1 05	1 25 @ 1 35	
Corse Hill (Scotch).....	@ 1 05	@ 1 05	95 @ 1 05	
Marble: (\$ cu. ft.)				
Lee, Mass.....	@	1 75 @ 2 50	75 @ 1 00	2 00 @ 2 50
Rutland, white and blue.....	@	@ 3 00	50 @ 1 00	2 00 @ 3 00
Sutherland Falls.....	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black.....	@	@	3 50 @ 6 00	4 00 @ 4 50
Italian, blue-veined.....	@	@	Not Sold.	2 50 @ 2 75
"Sienna.....	@	@	@ 4 40	@ 5 00
Tennessee, red.....	@	@	Not Sold.	4 00 @ 6 00
"Knoxville.....	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue.....	@	@	Not Sold.	2 00 @ 3 00
Vermont, white.....	@	@	3 50 @ 6 00	2 25 @ 3 00
State: Roofing (\$ square).....				
"green.....	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
"unfading.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
"purple.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
"red.....	4 25 @ 4 75	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
"black, Lehigh.....	4 25 @ 4 75	6 25 @ 6 85	6 25 @ 6 85	25 @ 4 00
"Chapmans.....	6 00 @ 8 50	6 00 @ 8 50	7 30 @ 8 00	00 @ 4 65
"Unfading black, Brownville, Me.....	5 50 @ 8 00	5 50 @ 8 00	6 50 @ 9 50	6 60 @ 8 60
Tiles, Am. ... \$ M.....	@	@	6 00 @ 9 00	5 50 @ 8 00
N. Peach Bottom, warranted unfading.....	8 00 @	8 00 @	Not Sold.	6 00 @ 6 75
Fire Clay Roofing Tile on cars at factory	8 00 @	8 00 @	8 00 @	8 00 @
PAINTS. (In Oil \$ lb.)				
White lead, Am.....	7 @ 7 1/2	6 @ 6 1/2	7 @ 7 1/2	@ 7 1/2
"zinc.....	5 @ 8 1/2	@ 8 1/2	5 @ 10 1/2	@ 7 1/2
Red lead, Am.....	6 @ 7	6 @ 6 1/2	6 @ 7	@ 7 1/2
"Venetian.....	6 @ 10 1/2	7 @ 12	1 @ 2 1/2	dry Eng. @ 7
"Vermillion.....	65 @ 70	60 @ 65 dry	65 @ 68	Eng. @ 7 1/2
"Indian, Eng.....	12 @ 20	12 @ 20	12 @ 20	dry Am. @ 1 1/2
Yellow Ochre.....	6 @ 15	7 @ 15	7 @ 15	@ 18
Chrome.....	12 @ 20	18 @ 25	15 @ 25	@ 21
Green (chrome).....	8 @ 13	8 @ 20	8 @ 20	" 15 @ 20
Green, Paris.....	25 @ 40	25 @ 30	18 @ 35	8 @ 12
Black, lamp.....	15 @ 25	15 @ 25	8 @ 30	10 @ 24
Blue, ultramarine.....	12 @ 18	18 @ 30	12 @ 35	@ 60
Oil, linseed, (raw).....	55 @ 62	53 @ 55	57 @ 60	@ 63
"boiled.....	58 @ 65	56 @ 58	60 @ 63	@ 44
Turpentine.....	36 @ 37	@ 36	40 @ 42	125 @ 3 00
Varnish, coach.....	@	1 50 @ 6 00	1 25 @ 2 00	150 @ 3 00
Shellac.....	@	2 50 @ 3 00	2 25 @ 4 00	2 @ 2 1/2
Putty.....	2 @	2 @ 4	2 @ 3 1/2	@ 1
Whiting.....	75 @ 1 00	1 @ 1 1/2	1 @ 1 1/2	@ 2
Paris white, (Eng.).....	1 30 @ 2 00	1 1/2 @ 2	1 1/2 @ 2	@ 7 1/2
Litharge, Am.....	5 1/2 @ 6	6 @ 6 1/2	6 @ 7	@ 14
Sienna (burnt).....	14 @ 20	14 @ 20	4 @ 16	2 @ 13
Umber.....	14 @ 20	14 @ 20	2 @ 10	@ 2 25
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought).....	@ 2 85	@	2 35 @ 3 50	per keg @ 2 25
10d. common.....	@ 2 60	@ 2 00	@ 1 70	@ 2 30
Shingle.....	@ 3 35	@ 2 40	@ 2 10	@ 2 60
Lath.....	@ 4 85	@ 3 10	@ 2 80	3 60 @ 4 75
(Finishing nails according to size).....	@	@	Add .60 to \$1.90	per lb 4 @ 6
(For casing nails add 75 c. per keg).....	@	@	".40 to .50	Add per cask 2 90 (all kinds.)
Butts: 4" x 4"..... (\$ doz. pairs).....				
Plain.....	@ 1 00	@ 85	@ 90	@ 90
Japanned.....	@ 1 50	@ 1 25	Not Sold.	1 35 @ 2 00
Acorn, Japanned.....	@ 1 50	@ 1 50	2 00 @ 3 75	1 30 @ 2 75
Ball Tip, Boston Finish..... (\$ pair).....	@ 65	@ 40	Not Sold.	48 @ 50
Bronze metal.....	@ 1 90	plain 1 25	2 00 @ 3 25	@ 1 25
Brass (for cupboards).....	@ 10	@ 10	@ 12	@ 1 00
Ebony.....	@	@	@	@ 35
Apple wood.....	@	@	@	37 @ 1 00
Knobs: (\$ set).....				
Mineral, best.....	@ 8	@ 8	8 @ 10	@ 08
Lava.....	@ 50	@ 75	65 @ 80	Not Sold.
Hemacite.....	Not Sold.	17 @ 33	31 @ 40	25 @ 50
Porcelain.....	@ 30	@ 10	25 @ 30	@ 25
Glass, solid.....	Not Sold.	@ 50	Not Sold.	1 00 @ 2 50
Glass, silvered.....	Not Sold.	88 @ 1 00	@ 1 50	1 75 @ 2 00
Bronze metal.....	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass.....	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder.....	@	@ 6 1/2	14 @ 16	13 @ 16
Sheet Lead.....	@	@ 6 1/2	5 1/2 @ 7	6 @ 6
Lead Pipe.....	@	@ 8 1/2	@	@
Iron:				
1-Beams, up to and including 30 ft.....	3 3-10 @ 3 1/2	@ 2 50	@	@ 2 8-10
do. over 30 ft., 1/2 c. adv. for every 5 ft.....	@	@	2 50 @ 2 75	@ 2 8-10
Channel Beams.....	3 3-10 @ 3 1/2	@ 2 50	50 @ 2 75	@ 2 8-10

FOR INFORMATION ABOUT
U. S. MAIL CHUTES
 WHICH ARE
 A necessity in Office Buildings and Hotels,
 write to the sole makers,
THE CUTLER MFG. CO., ROCHESTER, N. Y.
 PATENTED. AUTHORIZED.



NATIONAL
Fine Art Foundry,
 218 East 25th Street, New York.
 Artists' Models cast in Standard Bronze.
 Architects' Designs Executed.
 Artistic and Enduring Monuments
 in Granite and Bronze.
 No Catalogues.

MAURICE J. POWER.



TUBULAR
CHIME BELLS
 Harrington Patents.
 Established in England.
 Introduced here.
 Lighter in Weight }
 Sweeter in Tone }
 Cheaper in Price }
 Than the ordinary bell }
 Catalogue with full description.
U. S. Tubular Bell Co.,
 Methuen, Mass.

MARKS' ARTIFICIAL LIMBS.
 WITH RUBBER HANDS AND FEET.
 The most comfortable, durable and natural.



Although a man may lose both of his legs he is not necessarily helpless. By having artificial legs applied, with rubber feet attached, he can be restored to his usefulness.
 The engraving is from an instantaneous photograph of a man ascending a ladder; he has two artificial legs substituting his natural ones, which were crushed by a railroad accident and amputated. With his rubber feet he can ascend or descend a ladder, balance himself on the rungs, and have his hands at liberty. He can work at a bench and earn a good days wages. He can walk and mingle with persons without betraying his loss; in fact, he is restored to his former self for all practical purposes.
 With the old method of complicated ankle-joints these results could not be so thoroughly attained.

Fifteen thousand in use, scattered in all parts of the world. Many of these have been supplied without presenting themselves to the maker, simply by sending measurements on a formula which any one can easily fill out.
 RECEIVED THE HIGHEST AWARD AT
 WORLD'S COLUMBIAN EXPOSITION.
 Indorsed and purchased by the U. S. Government.
 A treatise of 430 pages and formula for measuring SENT FREE.

A. A. MARKS,
 701 Broadway, NEW YORK CITY.
 (Established 41 Years.)

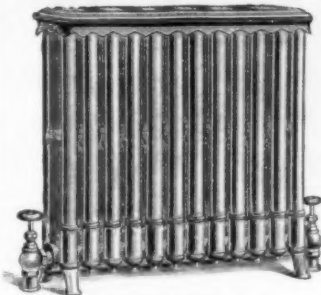
THE GREAT
CHURCH
LIGHT
REFLECTORS FOR
 OIL, GAS
 OR ELECTRIC LIGHT
I. P. FRINK,
 551 PEARL ST. N. Y.

Conservatories,
GREENHOUSES,
VINERIES,

Shipped to any part of the country, and erected complete, ready for use.
 Plans embrace the latest improvements.
 Unequalled facilities for manufacturing. Thirty-five years' experience. Catalogue sent on application.
 Address, stating requirements,

LORD & BURNHAM COMPANY,
 IRVINGTON-ON-HUDSON, N. Y.

THE H. B. SMITH COMPANY,
 MANUFACTURERS OF
HEATING APPARATUS,
 STEAM AND WATER.



The "UNION" Radiator.

For Public Buildings and Private Residences.

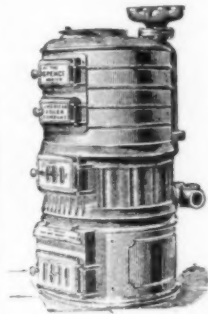
SPECIALTIES:

"THE UNION" Hot-water Radiators.
 BRECKENRIDGE'S Patent Automatic Air Valves.
 GOLD'S Improved Sectional Boilers.
 MILLS'S Safety Sectional Boilers.
 MERCER'S Patent Improved Sectional Boilers.
 REED'S Improved Cast-iron Radiators.
 GOLD'S Indirect Pin Radiators.

Office and Warerooms, 137 CENTER ST., NEW YORK.

Foundry, Westfield, Mass.

Catalogues sent on Application.



HEATING.

STEAM AND HOT WATER.

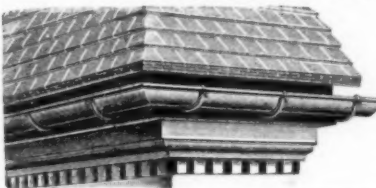
The Architect, Steam Fitter, Plumber, and the General Public give our line of Heaters Preference on account of being Simple in Construction, Economical in Operation, Powerful and Rapid in performing their work.

Write for Descriptive Catalogue.

American Boiler Company

BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
 195 Ft. Hill Sq. 94 Center St. 84 Lake St. 127 6th St.

NOTICE TO ARCHITECTS.



This cut shows the additional width, strength and beauty of an eave finished with a hanging, expanding Gutter hung with

"Berger's Favorite Hangers,"

now superseding every other device.

BERGER BROS.,

237 Arch Street, - PHILADELPHIA.

ARCHITECTURAL RENDERING
 IN
PEN AND INK.

By D. A. GREGG, Instructor in PEN-AND-INK DRAWING, at the Massachusetts Institute of Technology.

COMPLETE IN FOUR PARTS.

American Architect & Building News Co., Boston, Mass.

BUILDING MATERIALS.

Reported for the American Architect and Building News.

	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
LUMBER.—P. M.				
Boards: (Ordinary dimensions.)				
Pine, 1st quality, clear	65 00 @ 75 00	55 00 @ 70 00	42 00 @ 50 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	27 00 @ 38 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	20 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock	ea 13 1/2 @ 14	10 00 @ 15 00	12 00	11 25 @ 13 50
Yellow pine	20 @ 40	23 00 @ 35 00	21 00 @ 34 00	14 00 @ 29 00
Cypress	28 00 @ 40 00	28 00 @ 40 00	18 00 @ 34 00	18 00 @ 35 00
Clapboards:				
Pine	38 00 @ 55 00	38 00 @ 55 00	19 00 @ 22 50	14 00 @ 25 00
Spruce	23 00 @ 38 00	23 00 @ 38 00	Not sold.	Not sold.
Framing Timber:				
Pine	14 00 @ 18 00	14 00 @ 17 00	12 00 @ 17 50	25 00 @ 37 30
Spruce	12 00 @ 16 00	13 00 @ 15 00	Not sold.	16 00 @ 18
Hemlock	18 00 @ 21 00	20 00 @ 35 00	10 00 @ 13 00	13 00 @ 17
Yellow pine			24 00 @ 34 00	22 00 @ 28
Laths:				
Pine	Slab	2 25 @ 2 50	2 40	2 75 @ 3
Spruce	1 65 @ 1 75	2 00 @ 2 50	Not sold.	2 30 @ 3 00
Shingles:				
Pine, shaved	5 00 @ 6 00	4 50	Not sold.	
Pine, sawed	4 00 @ 5 00	1 50 @ 2 00	2 25 @ 2 50	
Spruce, sawed	1 50 @ 2 00	3 25 @ 3 75	Not sold.	
Redwood	1 40 @ 1 60	2 00 @ 3 75	6 00 @ 7 50	
Cedar split	18 00 @ 20 00	2 00 @ 3 75	Not sold.	
Cedar sawed		5 00 @ 6 00	2 60 @ 2 75	
Cypress, Split			3 50 @ 4 00	
Miscellaneous:				
Pine, 6 ft.	4 1/2 @ 5 1/2	Pine 6 ft.	Cut to order.	
Fence pickets, Common	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 22 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts)		25 @ 50	9 @ 21	40 @ 1 25
Chestnut posts		25 @ 50	Not sold.	20 @ 30
Finishing Woods: P. M. (First)				
Ash	80 00 @ 120 00	45 00 @ 60 00	14 00 @ 30 00	42 50 @ 47 50
Cherry	40 00 @ 60 00	90 00 @ 120 00	35 00 @ 90 00	100 00 @ 120 00
Butternut		60 00 @ 70 00	17 00 @ 35 00	70 00 @ 80 00
Hard-pine floors (rift)		42 00 @ 50 00		
Mahogany, Baywood [Mexican]	180 00	160 00 @ 170 00	110 00 @ 170 00	150 00 @ 250 00
St. Domingo	45 00 @ 50 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Maple	45 00 @ 70 00	45 00 @ 50 00	12 00 @ 20 00	25 00 @ 55 00
Oak, red	45 00 @ 70 00	40 00 @ 50 00	17 00 @ 27 00	42 50 @ 55 00
" white	45 00 @ 70 00	45 00 @ 55 00	16 00 @ 28 00	45 00 @ 55 00
" quartered	45 00 @ 70 00	65 00 @ 75 00	34 00 @ 40 00	60 00 @ 75 00
Sycamore quartered	65 00 @ 70 00	50 00 @ 65 00	25 00 @ 28 00	57 50 @ 65 00
Pine, clear	60 00 @ 70 00	50 00 @ 75 00	33 00 @ 50 00	65 00
Redwood	60 00 @ 70 00	50 00 @ 70 00	40 00 @ 45 00	60 00 @ 75 00
Rosewood			per M.	
Spruce floors (clear, (kiln-dried)		32 00 @ 35 00		
Walnut, black	125 00 @ 150 00	85 00 @ 120 00	40 00 @ 75 00	50 00 @ 170 00
Whitewood	45 00 @ 50 00	35 00 @ 45 00	14 00 @ 30 00	25 00 @ 40 00
Yellow pine	45 00	40 00 @ 42 00	31 00 @ 34 00	42 00

CLINTON WIRE-CLOTH CO.,

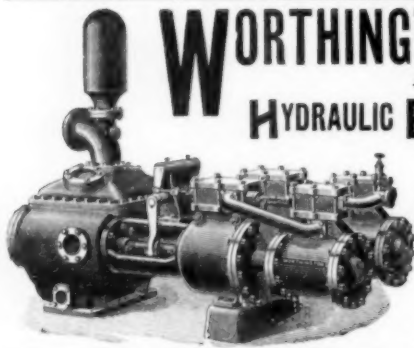
Sole Proprietors and Manufacturers of

WIRE LATH DOUBLE TWIST WARP
STIFFENED (Iron furred)
CLINTON CORRUGATED

Plain, Japanned or Galvanized.

The Most Perfect and Economic System of FIREPROOF Construction.

SEND FOR CIRCULAR.

BOSTON, NEW YORK, CHICAGO, FACTORY,
199 Washington St. 76 Beekman St. 137 Lake St. CLINTON, MASS.**WORTHINGTON STEAM PUMPS**

ARE THE STANDARD FOR

HYDRAULIC ELEVATOR AND HOUSE SERVICE.

Send for New Illustrated Catalogue.

Henry R. Worthington,

NEW YORK, 86 & 88 Liberty St.
BOSTON, 70 Kilby St.
PHILADELPHIA, 607 Arch St.
CLEVELAND, 24 South Water St.
CHICAGO, 185 to 189 Van Buren St.
ST. LOUIS, Eighth & St. Charles Sts.**Welded Chrome Steel and Iron. (5 ply)**

We are the only manufacturers of Chrome Steel in the United States.

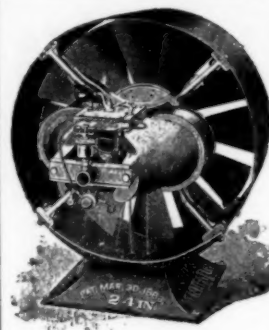
None genuine unless stamped with our Trade Mark.

FOR SAFES AND VAULTS

Positively Burglar-proof, cannot be Cut, Sawed, or Drilled,

CHROME STEEL WORKS, Brooklyn, N. Y.

BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
BRICK.—P. M.	(Wholesale)	(Prices.)	(Prices to Builders and Contractors.)	(In Yard.)
Common: Cargo afloat.				
Fair.	1 50 @ 1 75			Sq. Hard @ 9 00
Jersey.	3 75 @ 4 25		Building Brick @ 5 50	Salmon @ 7 00
Long Island.	@	Domestic Com. 8 50 @ 9 50		Sq. " @ 9 00
Up River.	3 75 @ 4 50	Domestic Face 18 00 @ 25 00	Indiana Pressed 14 00 @ 20 00	Light Stretchers @ 10 00
Haverstraw Bay 2d.	4 00 @ 4 25	Philadelphia 35 00 @ 40 00	St. Louis Fronts @ 27 00	Medium " @ 12 00
" 1st.	4 50 @ 5 25	Phila. mould 50 00 @ 80 00		Red " @ 13 00
Hollow.	@ 13 00			Dark " @ 13 00
Fronts:				Pressed 18 00 @ 20 00
Croton, Brown.	9 00 @ 12 00	Enamelled B'k. Imported. 65 00 @ 350 00		Best Paving @ 14 00
" dark.	10 00 @ 13 00	Enam. (edge) 95 00 @ 105 00		Second " @ 13 00
" red.	10 00 @ 13 00	" (edge & end) 45 00 @ 50 00		Third " @ 12 00
Chicago pressed (Anderson).		115 00 @ 120 00		Dom. } @ 65
" Moulded.		Domestic. 60 00 @ 100 00		82
Baltimore.	37 00 @ 41 00	Enam. (edge) 90 00 @ 100 00		
Philadelphia.	22 00 @ 23 00	" (edge & end) 110 00 @ 115 00		
Trenton.	@ 19 00			
Milwaukee.				
Moulded:				
Glens Falls Red Pressed.	@ 37 00			
" " Buff.	@ 30 00			
" " Moulded Red & Buff.	45 00 @ 70 00			
Enamelled: Imp.				
Enamelled (edge).	85 00 @ 100 00			
Enamelled (edge and end).	90 00 @ 115 00			
CEMENT, LIME, etc.—(P. coast.)				
Rosendale Cement.	80 @ 90	1 15 @ 1 25	Not sold.	1 30 @ 1 50
Louisville.		Brooks, S. & Co. 1 05 @ 1 15		BS&Co 2 75 @ 3 00
Utica, Akron, Buffalo, Milw'kee.	Not sold.	2 40 @ 2 75	1 00 @ 1 10	2 85 @ 3 25
Portland, English (Gibbs).	2 25 @ 2 50	2 40 @ 2 75	3 00 @ 3 10	2 85 @ 3 15
" " (K. B. & S.).	2 50 @ 3 00	2 40 @ 2 75	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross.	2 25 @ 2 50	2 40 @ 2 75	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham).	2 80 @ 2 50	2 40 @ 2 75	2 90 @ 3 15	2 75 @ 2 85
" " (White's).	2 65 @ 3 00	2 40 @ 2 75	3 00 @ 3 25	
" French (Lafarge).	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	
" German (Alsen).	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	
" (Fewer).	2 25 @ 2 40		3 20 @ 3 40	
" (Vorwöhler).	2 50 @ 2 90			
" (Lagerhofer).	2 60 @ 2 90	Cleopatra 2 40 @ 2 75	2 75 @ 3 00	2 60 @ 2 75
" (Byckerhoff).	2 50 @ 3 00	3 60 @ 3 50	3 25 @ 3 50	3 00 @ 3 25
" (Hanover).	2 35 @ 2 65	Not Sold.	Not sold.	2 75 @ 2 85
" Stettin (Anchor).	2 15 @ 2 25	" "	Not sold.	
" American (Saylor's).	2 75 @ 3 00	" "	2 00 @ 2 70	2 70 @ 3 00
Roman.	4 50 @ 5 00	@ 3 50	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse.	5 00 @ 5 50	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine.		7 00 @ 9 00	9 00 @ 10 50	8 00 @ 9 00
Lime:				
Lime of Tell.	3 50 @ 4 00		Not sold.	White Lime P bush 25 @ 30
Hydraulic Lime.	@ 1 45			White Mash 1 25 @ 1 50
Chicago Lime in bulk.	St. John 85	St. John 90	60 @ 70	1 00 @ 1 00
Wisconsin Lime.	@ 85	@ 95	Not sold.	
Rockland and Rockport, (Com.).	@ 1 00	@ 1 00	Not sold.	
Kelley Island Lime, finish.	@	@	1 00 bulk, 75c.	
State, com. cargo rates (nom.).	@ 80	Not sold.	Not sold.	
State, finishing.	1 05 @ 1 10	Not sold.	Not sold.	
Plaster of Paris (calcined).	1 40 @ 1 50	1 85 @ 2 00	1 85 @ 1 90	Not sold.
" (casting).	@ 1 60	@ 2 25	1 85 @ 1 90	1 50 @ 2 25
Hair (Cattle) P bush.	18 @ 21	25 @ 30	16 @ 20	1 75 @ 2 50
" (Goat).	21 @ 25	@ 30	30 @ 35	20 @ 25
Sand, P load.	1 00 @ 1 25	1 75 @ 1 90	@ 60	30 @ 35
STONE. (P cubic foot, rough.)				@ 1 50
Granite: (Maine)		@ 60		
Limestone:				55 @ 60
Bedford.	45 @ 1 25	95 @ 1 00	50 @	75 @ 85
Joliet.	1 00		35 @ 55	Richmond 75 @ 1 50
Lamont.			3 @ 60	P Perch 4 50 @ 5 50
Serpentine.		10 50 per ton	@ 1 00	

KEEP COOL
BY USING
THE SMITH
VENTILATING
FAN.KEEP WARM
BY USING
THE SMITH
HOT BLAST
APPARATUS.Both Manufactured by
THE HUYETT & SMITH MFG. COMPANY,Heating and Ventilating Engineers,
DETROIT, MICH.

Write for Catalogue, mentioning this paper.

MCCRAY REFRIGERATOR AND COLD STORAGE CO.,Cooling Rooms for public Institutions, Hotels,
Fine Residences, Groceries, and
Meat Markets.

KENDALLVILLE, IND.

CATALOGUE
FOR 1894 OF
Architectural Books.

SEND FOR CLEARANCE CIRCULAR.

WM. T. COMSTOCK, Pub., 23 Warren St., N. Y.

NEW ENGLAND
FELT ROOFING
WORKS,

22 MILK ST., BOSTON.

ESTABLISHED
1852.
Incorporated
1891.

Capital—\$80,000

LEVI L. WILLIAMS, Pres.

E. C. DAVIS, Treas.

Originators of Felt Roofing in New England.

Inventors and only Manufacturers of the Celebrated

"BEEHIVE BRAND."

BURDITT & WILLIAMS,
Representatives of Leading Manufacturers of
BUILDERS' HARDWARE.Refer to the prominent Architects of Boston,
New York and Washington, as well as to many
of the finest Public Buildings and Residences
in all parts of the United States.Branch Office, 20 Dock Square,
WASHINGTON, D. C. BOSTON, MASS.**Helotype Printing Co.,**

211 Tremont Street, Boston.

ESTABLISHED 1872.

- PHOTO-LITHOGRAPH.
- PHOTO-COLOR-LITHOGRAPH.
- PHOTO-GELATINE.
- PHOTO-GRAVURE.
- PHOTO-ENGRAVING.

COPIES OF ARCHITECTURAL,
MECHANICAL AND OTHER
DRAWINGS, MAPS, PLANS, ETC.,
PORTRAITS, VIEWS AND ALL
BOOK ILLUSTRATIONS.

Helotype Printing Co.

CABOT'S CREOSOTE SHINGLE STAINS



Loring & Phipps Arch'ts Boston



Summer Cottage
Thousand Islands
by J. F. MacCallister

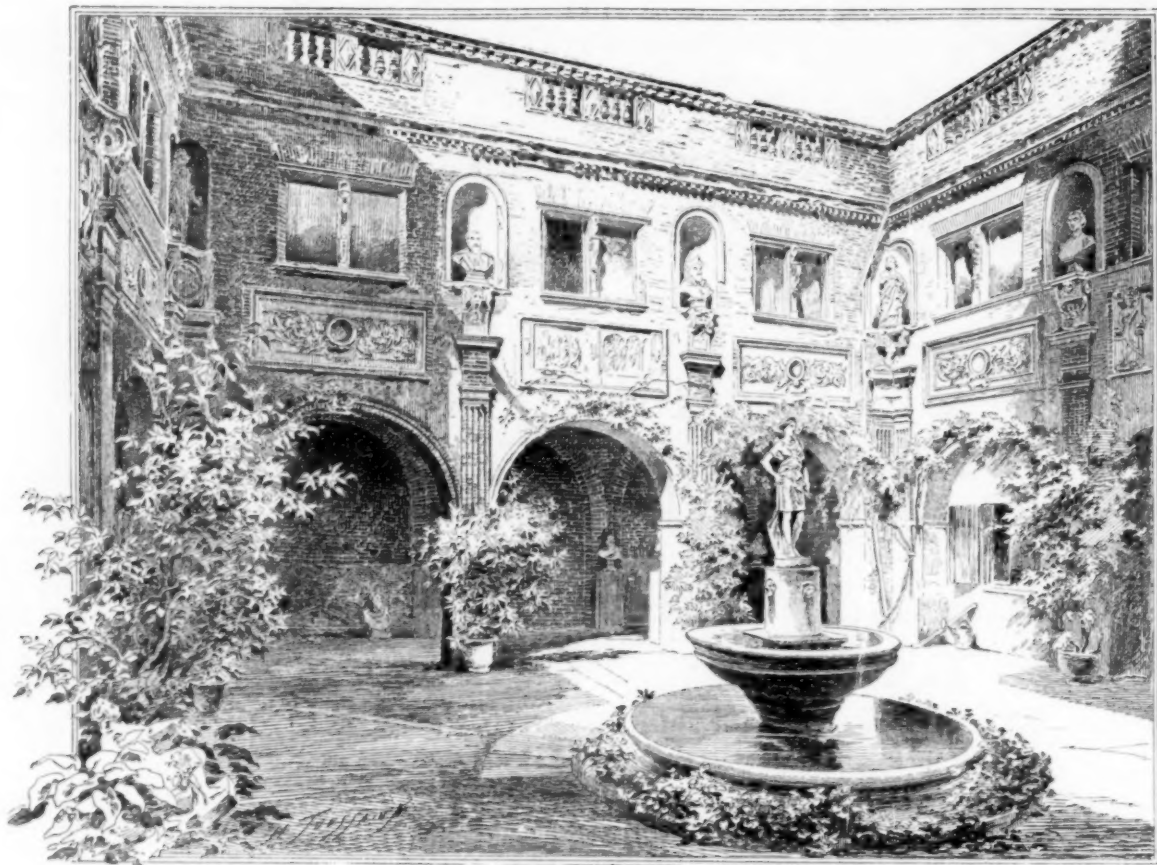


Don't specify paint for shingles; it isn't artistic. Don't specify a Stain that will turn black in a few years, because it looks dirty and you have to paint it over to change the color. Specify a stain that will hold its color and grow old gracefully—like Cabot's, which was the first shingle stain ever made, and is now, as always, first in durability, first in economy, and first in favor with those who have used it. *Every gallon guaranteed.*

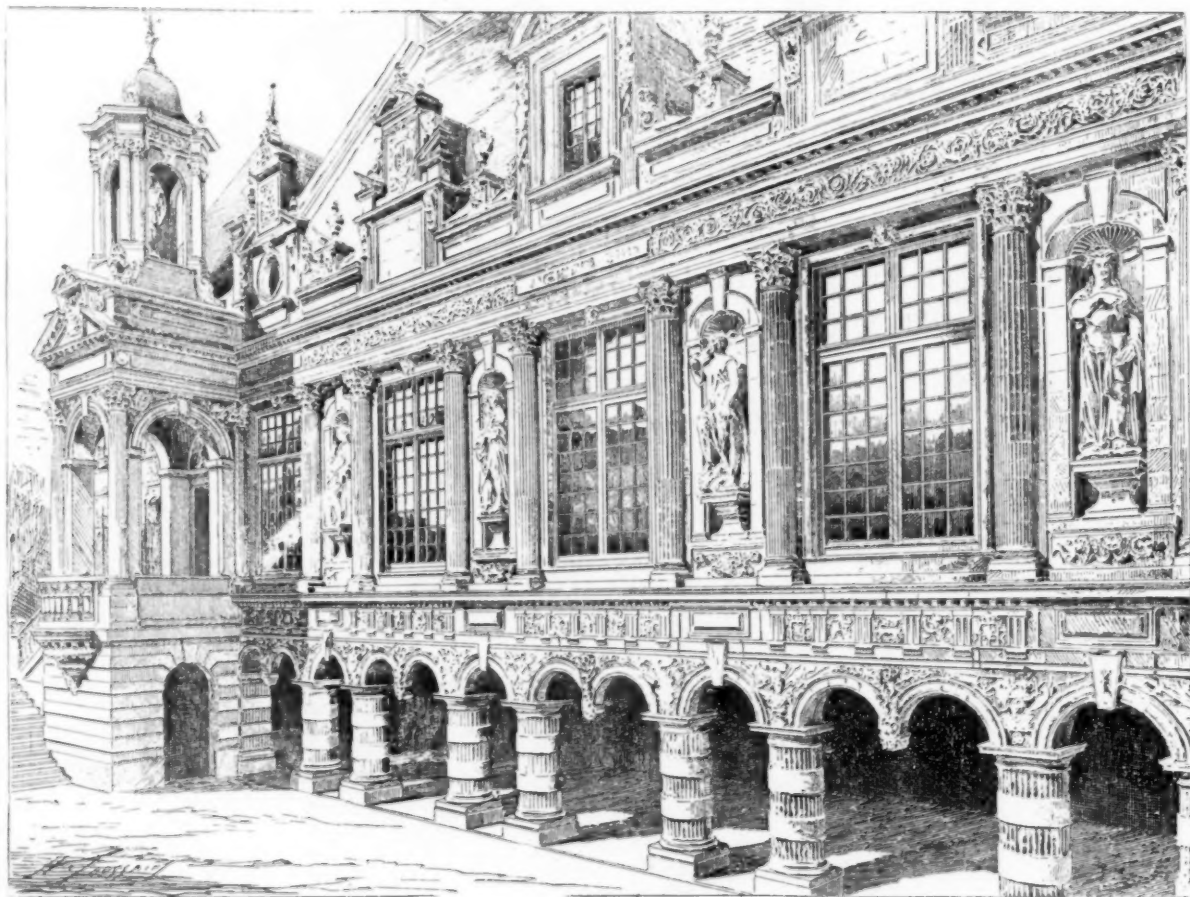
Large or small wood samples, circulars and water-color reproductions of color schemes, sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

Agents at all Central Points. **70 Kilby St., BOSTON, MASS.**



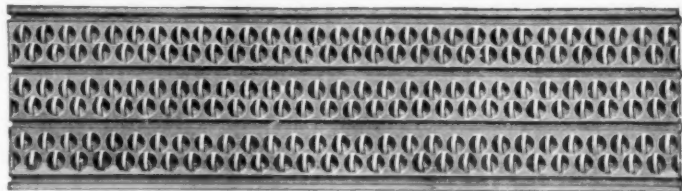
Small Cloister of the Augustins, Toulouse, France.



Hôtel de Ville, La Rochelle, France.



"Piqua" Steel Lath.



"Piqua" Lath is made from the best quality of steel, in sheets $27\frac{1}{4} \times 48$ inches, and each sheet covers exactly one square yard of surface. The corrugations shown in cut are $3\frac{1}{4}$ inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.

JOHN WILLIAMS, 544 to 556 West 27th Street, New York.

WROUGHT IRON AND BRASS WORK TO SPECIAL DESIGNS ONLY.

REFERENCES: Tiffany & Co., N. Y.; Cottier & Co., N. Y.; L. Marcotte & Co., N. Y.; McKim, Mead & White, N. Y.; Babb, Cook & Willard, N. Y.; Bruce Price, N. Y.; R. M. Hunt, N. Y.; Bailey, Banks & Biddle, Phila.; Frank Hill Smith, Boston.; A. H. Davenport, Boston.

MERCHANT & CO., Incorporated,

Sole Manufacturers of the



STAR VENTILATOR

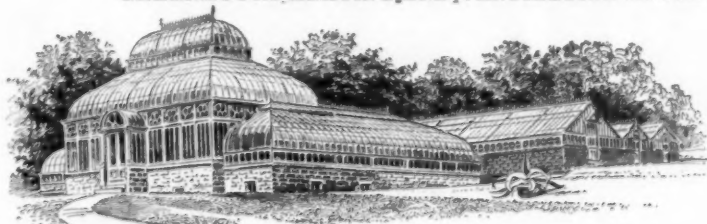
MADE OF GALVANIZED OR LEAD-COATED SHEET-IRON, COPPER OR BRASS.

HITCHINGS & CO., Established 50 years.

HORTICULTURAL ARCHITECTS AND BUILDERS

and largest Manufacturers of

GREENHOUSE HEATING AND VENTILATING APPARATUS.



Conservatories, Greenhouses, Palm Houses, etc., erected complete with our patent Iron Frame Construction. Plans and Estimates of cost and illustrated catalogues sent on application.

233 MERCER STREET, N. Y.

James A. Miller & Bro.

Slate
Tin
Tile and Iron

Roofers ...

Galvanized Iron and Copper

Cornices, Bays
Skylights, etc.



Special Attention ...
to Large First-class Work
Fully Guaranteed.

Our facilities, resources and experience are such that we feel able to compete for large work in our line, almost anywhere in the United States, and will be particularly pleased to do so now when there is so little work going on in this city.

129-131 South Clinton Street,
Chicago.

PERSPECTIVE DRAWINGS.

During the current year Pen-and-Ink or Water-color Perspective Drawings have been rendered in the

DRAWING OFFICE

OF THE

"AMERICAN ARCHITECT"

For the Following Architects.

BOSTON.

Peabody & Stearns.
Winslow & Wetherell.
Shepley, Rutan & Coolidge.
C. Brigham.
Wait & Cutter.
Blackall & Newton.
Longfellow, Alden & Harlow.

SPRINGFIELD, MASS.

Gardner, Pyne & Gardner.

WORCESTER, MASS.

G. H. Clemence.

PROVIDENCE, R. I.

Stone, Carpenter & Willson.

ALBANY, N. Y.

Fuller & Wheeler.

BUFFALO, N. Y.

C. D. Swan.

PHILADELPHIA, PA.

G. T. Pearson.

BALTIMORE, MD.

Wyatt & Nolting.
J. A. & W. T. Wilson.
J. E. Sperry.

PITTSBURGH, PA.

F. J. Osterling.
W. S. Fraser.

YORK, PA.

J. A. Dempwolf.

LYNCHBURG, VA.

E. G. Frye.

MINNEAPOLIS, MINN.

W. D. Dunnell.

TORONTO, CANADA.

Strickland & Symons.

ST. JOHNS, NEWFOUNDLAND.

J. Wills & Son.

And others.

SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.

Slate, Copper, Tin and Gravel Roofing.

Nos. 20 and 22 EAST STREET, BOSTON.

Order Box at Master Builders Association,
164 Devonshire Street.Special attention given to Repairs
of all kinds.

Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs, acknowledged to be the strongest method in use, and has been applied to many of the best constructed and largest buildings in this country.

Contracts made for Work wherever desired.

ASPHALT ROOFING AND PAVING MATERIALS.

WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.

Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO. 81 & 83 Fulton Street, NEW YORK, U. S. A.



THE JENKINS AUTOMATIC AIR VALVE has proved to be all we claimed for it, i. e., a Positive and Reliable Air Valve. The expansible plug is a special compound, and MANUFACTURED EXPRESSLY for use in the JENKINS AUTOMATIC AIR VALVE. It does not deteriorate or lose its flexibility under the action of heat or steam. With the Jenkins Automatic Air Valve, you should connect with a drip pipe, thus insuring a positive circulation. We guarantee them to be as represented. Our trade-mark is on every Valve.

JENKINS BROS., New York, Boston, Chicago, Philadelphia.



JACKSON VENTILATING GRATES

Each heat 7,000 cubic feet of space in zero weather.
One heats and ventilates an entire residence in Spring and Fall.

Send for Catalogue B.

EDWIN A. JACKSON & BRO., 50 Beekman Street, New York.

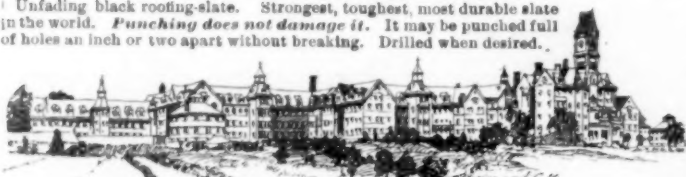


YALE LOCKS

BROWNVILLE MAINE SLATE COMPANY.

Office, WORCESTER, MASS.

Unfading black roofing-slate. Strongest, toughest, most durable slate in the world. *Punching does not damage it.* It may be punched full of holes an inch or two apart without breaking. Drilled when desired.



STATE LUNATIC ASYLUM, WORCESTER, covered with our Slate.

Toughest
Slate,
Fewest
Leakages.
Oldest
quarry
in Maine.

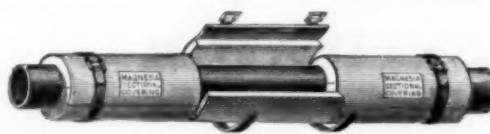
BLACKCROSS PORTLAND CEMENT

IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,

IMPORTERS ROMAN, KEENE'S, VICAT CEMENTS, 23 Liberty Street, NEW YORK.
ENGLISH GLAZED BRICKS.

Absolutely



Fire-Proof.



MAGNESIA

SECTIONAL

STEAM PIPE AND BOILER COVERINGS.

THE GREAT COAL-SAVER.

SELLING AGENTS:

Boston, S. C. Nightingale & Childs, 134 Pearl St.
New York, Robert A. Keasbey, 54 Warren St.
Philadelphia, Macz & Co., 139 Callowhill St.
Baltimore, Wallace & Bro., 432 E. Pratt St.
Washington, Wm. B. Morgan, Builders' Ex'c.
New Orleans, Delbert Engineering Co., 23 Union St.
Memphis, Symmes & Co., 132 Front St.

MANUFACTURED BY

THE KEASBEY & MATTISON CO.,

CINCINNATI: AMBLER, CLEVELAND:
114 West Second St. PA. 117 Water St.

SELLING AGENTS:

Milwaukee, F. Sprinkman, 133 Sycamore St.
Louisville, W. W. Hite & Co., 176 Fourth St.
St. Louis, F. Boeler, 108 Walnut St.
Detroit, S. P. Conkling, 20 Atwater St., East.
Denver, C. W. Badgley & Co., 18th & Market Sts.
Salt Lake City, Utah & Montana Machinery Co.
Butte City, Mont., R. W. James.
San Francisco, DeSolla & Deussing, 2 California St.

ASPHALT FLOORS, ROOFS, SIDEWALKS AND CARRIAGE-WAYS

Of Public Buildings, Hospitals, Warehouses, Stables, Cellars, etc.

Laid with VAL de TRAVERS ROCK ASPHALT, DURABLE, FIREPROOF AND IMPERVIOUS.

For estimates and list of works executed, apply to

THE NEUCHÂTEL ASPHALT CO., Limited,

265 BROADWAY. - - - NEW YORK.

Brown's Patent Seamless DRAWN COPPER HOUSE BOILERS.



Cannot collapse.

Will not leak.

Ordinary boiler tested to 200 lbs.

Extra heavy tested to 300 lbs.

Made of two seamless drawn copper shells.

Handsome, best and strongest in the market.

Send for circular giving instructions for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES, Waterbury, Conn.

Western Depot: 71 West Washington St., Chicago. Branch Offices: 104 John St., New York; Room 320 Philadelphia Bank Building, Philadelphia; 99 Milk St., Boston; Room 208, Neave Building, Cincinnati.

Proprietors of the Brown & Bros. Tubing and Boiler Works, and the Brown & Bros. Brass and Copper Rolling Mills.

Manufacturers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

Chicago Interior Decorating Co.

Bank, Office & Club Equipments.

Mantels, Tiles, Ceramic Mosaics FINE SPECIAL FURNITURE.

Highest grade of first class goods.

Drawings and Estimates furnished upon application.

149 & 150 Michigan Ave., Chicago, Ill.

Formerly occupied by the Henry Dibblee Co.

BLAKE BELL CO.

Successors to Wm. Blake & Co.

Bell Founders and Brass Finishers.

Castings in any metal except iron.

Monumental Tablets, Artistic Brass Work.

Allen and Brighton Sts., BOSTON.



J-W-TAYLOR'S PHOTOGRAPH SERIES.

151 MONROE ST. CHICAGO 1 OF AMERICAN ARCHITECTURE.

Removed to Owings Building.

Send two 5 cent stamps for Catalogue.

PARQUET FLOORS.

The National Wood Manufacturing Co.,

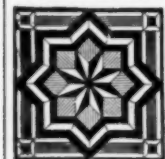
129 5th Avenue, New York.

WAINSCOTINGS and CEILINGS.

Inlaid Wood Floors 5-16 and 7-8 inch thick.

Solid work, Tongued and Grooved in each piece.

Designs & Estimates on application. Established 1867.



POINTS ON VARNISH.

NO. 267.—IT CAN BE DONE.

How? By combination and agitation. Let the architects of every city combine and pledge themselves: I, to let finishing contracts separately to reputable painters: II, to specify varnish, by makers' name and brand, just as explicitly as they specify anything else. Then let them agitate, by voice and pen, in their meetings and journals, publishing the difficulties with which they have to contend and explaining the ways and means by which those difficulties may be overcome. Let there be a few articles, in the leading trade papers, by prominent architects, on such themes as:—"My Experience with Dishonest Painters," and "The Methods I Have Adopted to Secure the Use of Specified Varnish." That would soon call forth a multitude of experiences and suggestions. Deceived architects and reputable painters are everywhere waiting to second any such word of candor. All that is needed to rescue the finishing business from disgrace is to go about this much needed reform with determination.

Let in the light. Light is life.

MURPHY VARNISH CO.

FRANKLIN MURPHY, President.

Head Office: Newark, N. J.

Other Offices: Boston, Cleveland, St. Louis, Chicago.

Factories: Newark and Chicago.

To ARCHITECTS:

If you desire to recommend a firm as one thoroughly capable of supplying *complete* furnishings for a hotel, club-house or private residence, you can mention us *with confidence*.

We supply CARPETS, RUGS, UPHOLSTERY FABRICS, FURNITURE, ETC., ETC.

Our *goods* are right; our *prices* are right.

We make a specialty of *private and exclusive patterns* which cannot be duplicated elsewhere.

John H. Pray, Sons & Co.,

658 Washington Street,

Opposite Boylston Street,

BOSTON.

F. W. DEVOE & CO.

(Established 1852.)

Fulton St., cor. William, New York.

No. 176 Randolph St., Chicago.

Pure Ready-mixed Paints.

We desire to call attention of consumers to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fireproof." We use no secret or patent method in manufacturing them by which benzine and water are made to serve the purpose of pure linseed-oil.

Sample cards, containing fifty desirable shades sent on application.

FINE VARNISHES.

Hard Oil-Finish & Wood-Stains.

Illustrated Catalogue of Engineers' and Architects' Supplies, 250 pages, 700 Illustrations, on request.

White-Lead Colors in Oil and Japan.

THE DECORATIVE GLASS

In Abbey's Theatre, N. Y., and Keith's Opera House, Boston, are examples of Renaissance and Rococo designs, the movement, carried out entirely in our *hard metal* settings.

METALLIC SETTING CO.,
137 Weybosset St., PROVIDENCE, 5 Park Sq., BOSTON.

H. W. JOHNS' SHINGLE STAINS

Prepared ready for use from the Purest Pigments and best Wood Preservative known. We will send upon request a full set of samples on wood, showing Silver Grays, Moss Greens and many handsome weather stained effects. These are permanent, durable stains.

H. W. JOHNS MFG CO., 87 MAIDEN LANE, NEW YORK.

NEW YORK, JERSEY CITY, CHICAGO, PHILADELPHIA, BOSTON.

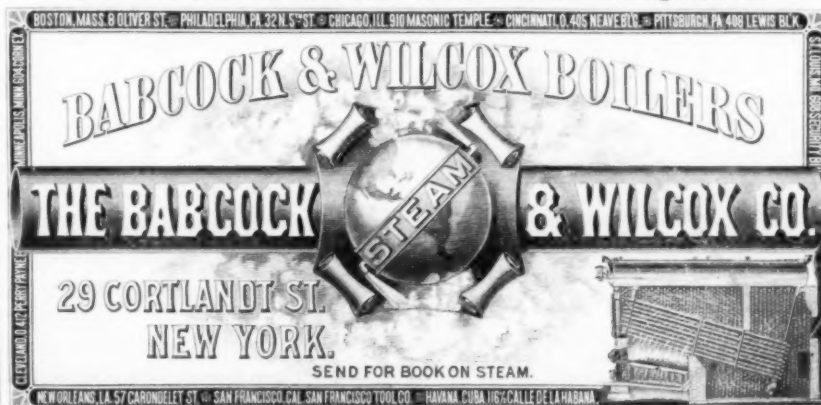


STAMPED STEEL CEILINGS

MANY DESIGNS

H. S. NORTHROP
Manufacturer,
30 ROSE ST
NEW YORK

Awarded the Grand Prize at the late Paris Exposition.



BABCOCK & WILCOX BOILERS

THE BABCOCK & WILCOX CO.

29 CORTLANDT ST.
NEW YORK.

SEND FOR BOOK ON STEAM.

NEW ORLEANS, LA. 57 CARondelet ST. — SAN FRANCISCO, CAL. SAN FRANCISCO TOOL CO. — HAVANA, CUBA 1157 CALLE DE LA HABANA.

The American Architect and Building News

IS PUBLISHED EVERY SATURDAY BY
The American Architect and Building News Co.,
211 TREMONT ST., BOSTON, MASS.

Advance Subscription Rates.
Regular Edition, \$6.00 per year; six months, \$3.50.
Imperial Edition, \$10.00 per year; six months, \$6.00.
International Edition, per year in advance, \$25.00.
" " " " quarterly " 36.00.

[Foreign Postage extra].

Payment should be made to American Architect and Building News Co., direct, either by draft or post-office order.

Address all business correspondence to the publishers direct.

Advertising Agents.

Boston, Philadelphia and Baltimore: —
L. Henry Paige, 211 Tremont St., Boston.
New York City: —
H. M. Carleton, 21 Park Row.

Agent at Large: —
F. P. Spokesfield, 211 Tremont St., Boston, Mass.

Western Agents: —
A. B. Titcomb, R. L. North, Jr., 167 Dearborn St., Chicago, Ill.

Advertising rates: For "wants" and "proposals," 15 cents per line (8 words to the line), each insertion. 50 cents the least charge. Other rates on application.

New Advertisements.

NEW ENGLAND WATER PIPE CO. (Wakefield, Mass.), Lead-lined Piping. Page xi.

PERSPECTIVE DRAWING.

The American Architect Drawing-Office will under take the preparation of perspective drawings in line or color from scale drawings, or will render drawings already in outline. Address the editors.

WANTED.

POSITION. — Wanted by a first-class designer and architectural draughtsman of twelve years' experience, or will take charge of branch office. Address "Architect," 402 South 13th St., Philadelphia, Pa. 974

FOR SALE.

FOR SALE. — American Architect, Regular Edition, from 1886 to 1892, inclusive. Address offers to "R. R." care of American Architect. t.f.

ARCHITECTS' REMOVALS, Etc.

WILLIAM E. LEHMAN has opened an office in the Prudential Building, Newark, N. J., and will be pleased to receive catalogues and samples. 974

BUILDING PATENTS.

[Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for ten cents.]

- 523,654. LOCK. — Charles W. Brown, Mazon, Ill.
523,658. PLASTERING-RETARDER AND METHOD OF MAKING SAME. — Wm. M. Dawson, New York, N. Y.
523,672. BOILER. — Jeremiah J. Long, Chicago, Ill.
523,684. FIRE-EXTINGUISHING SYSTEM. — Octavius Pierce, Chicago, Ill.
523,690. HINGED SLIDING DOOR. — Abraham Sinclair, New York, N. Y.
523,733. DRAWING-INSTRUMENT. — Edmund L. Sanderson, Waltham, Mass.
523,736. LOCK. — Ernest Cazin, West Hoboken, N. J.
523,738. STAND-BOILER FOR HEATING WATER. — Walter E. Duncan, Philadelphia, Pa.
523,797. MACHINE FOR PRESSING BRICKS, TILES, ETC. — Jacob Leonhardt, St. Louis, Mo.
523,800. HOT-WATER BOILER. — Daniel Munson, Syracuse, N. Y.
523,884. DOOR-BELL. — Burton S. Cowles, Meriden, Conn.
523,894. LEVEL. — Harry Hughes, Alliance, Nebr.
523,955. SEWER-PIPE CONNECTION. — James P. Bates, Springfield, Mo.
523,962. STEAM HEATING APPARATUS. — Robert M. Dixon, East Orange, N. J.
523,970. AUTOMATIC SHUTTER-OPENER. — Charles Buerling, Cincinnati, O.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

ADVANCE RUMORS.

- Alexandria, Va. — The Board of Supervisors have appropriated \$3,000 for a new engine-house.
Buffalo, N. Y. — A new engine-house will be built on Cleveland Ave.
Carbondale, Pa. — The Cottage Hose Co. is to build a hose-house.
Hoboken, N. J. — Monroe St., near Ferry St., stone and brick St. Joseph's Roman Catholic Church will be built; \$50,000.

GOULDS PUMPS Are Better

For Water Supply and Fire Protection

In Mills, Factories, Villages, &c. Reduce your fire risk (and insurance) by increasing your protection.

Goulds Rotary Fire Pump

Is one of the most reliable safeguards. May be arranged for direct shaft, belt or frictional gear connection. Send for Catalogue "Efficient Power Pumps and Applications."

THE GOULDS MANUFACTURING CO.,

Manufacturers of PUMPS and HYDRAULIC MACHINERY.
Works & Main Offices. Seneca Falls, N. Y., U. S. A. Warehouses: 16 Murray St., New York City.
Or Nearest Branch Agency—THE GOULD CO., 22 and 24 North Canal St., Chicago, Ill.
SMITH & WINCHESTER CO., 19 to 27 Wendell St., Boston, Mass. WOODIN & LITTLE, 312 & 314 Market St., San Francisco, Cal.
N. O. NELSON MFG. CO., Eighth & St. Charles Streets, St. Louis, Mo. L. N. RATES, 321 Vine Street, Philadelphia, Pa.

GEO. HILL, CONSULTING ENGINEER, BUILDINGS.

44 Broadway, N. Y. CITY.

F. E. KIDDER, C. E., ARCHITECT.

1362 California St., DENVER, COLO.
Calculations for trusses and all forms of building construction.

F. S. HOLMES, M. E., VAULT ENGINEERING

1101 Betz Building, Philadelphia.

Plans, Specifications and Superintendence of Vault and Safe Construction.

MONEY TO LOAN

In sums to suit, from \$5.00 to \$1,000, for 5 years, at 6 per cent. interest. No payments of any kind required until application for a loan has been granted. SECURITY REQUIRED. Real estate, houses, stores, stocks, bonds, jewelry, household goods, furniture, merchandise, horses, cattle, livestock, farming implements, and machinery of all kinds, or any other property, real or personal, of value; or a note, endorsed by person worth amount of money borrowed, will be accepted as security. Don't hesitate to write and ask for a Loan. Address, MUTUAL SAVINGS AND LOAN CO., Tenth and Walnut Streets, Philadelphia, Pa.

E. ELDON DEANE,

Architectural Colorist and Draughtsman.
54 BIBLE HOUSE, NEW YORK CITY.

BUILDING PATENTS.

(Advance Rumors Continued.)

- Lansdowne, Pa. — Dwelling for Isaac Keeler will be built to cost about \$4,000.
Oxford, Pa. — Locust St., dwelling, will be built for Dr. L. H. Kirk.
Portsmouth, Va. — A new engine-house will be built.
Providence, R. I. — A new hook and ladder house will be built.
Rochester, N. Y. — A new hose-house for No. 4 Company will be built on Ford St.
Williamstown, Mass. — T. F. Flanagan intends to erect a large brewery, capacity 50,000 bbls. per year; to cost about \$80,000.
ALTERATIONS AND ADDITIONS.
Brooklyn, N. Y. — Grand St., n. e. cor. Myrtle Ave., one-st'y brick store, gravel roof, 29' x 65', to be raised three stories and internal alterations made; \$7,000; own, Mary J. Casey, Myrtle Ave. and Gold St.; arch., Geo. W. Kenney, 259 Ninth St.
Clinton Ave., n. e. cor. Myrtle Ave., 2 four-st'y and basement brick aparts, tin roofs; four-st'y brick extensions, tin roofs, 7' x 22', to be added; \$2,000 each; own, John Engle, 196 Clinton Ave.; arch., Geo. M. Walgrove, 99 Nassau St., N. Y.; bld., John T. Woodruff, 63 West 3d St., Long Island City.
Putnam Ave., No. 212, three-st'y brick Convent, tile roof, 65' x 75' 4"; three-st'y brick extension, slate roof, 49' 4" x 69' 5", to be added, and internal alterations to be made; \$20,000; own, Monastery of the Precious Blood, 212 Putnam Ave.; arch., R. L. Daus, 26 Court St.; bld., M. E. O'Connor, 521 Willoughby Ave.
Camden, N. J. — Jefferson and Kosuth Sts., one-st'y addition to factory; bld., R. H. Conway, 309 North 2d St.
Cheltenham, Pa. — Second St. Pike, w. s. n. Mill Road, two-st'y frame addition to barn; own, Chas. D. Conklin.
Chicago, Ill. — R. Rosenthal, four-st'y addition, 2507 Wabash Ave.; \$3,000.
J. Epstein, three-st'y addition, 123 Colorado Ave.; \$3,000.
J. W. Hough, one-st'y addition, 553-559 Sixty-third St.; \$9,000.
E. Iverson & Son, one additional story and repairs, 43 Lake St.; \$10,000.
C. Schurering, three-st'y brick addition, 92 Racine Ave.; \$3,500.
Schuyler Sigler, three-st'y brick addition, 523-530 Sixty-third St.; \$5,000.

PERCY N. KENWAY,

85 WATER STREET, BOSTON.
Plans and specifications for Heating and Ventilating Apparatus.

BLUE PRINTS

Best Heavy French Paper 5 cents per square ft.
Spaulding & Moss, 53 State St., Boston, Mass.

Architectural Instruction.

812 LINCOLN BUILDING, UNION SQ., NEW YORK.
Home Study in Architecture. For Particulars address C. POWELL KARR, Architect. Send ten cents for illustrated pamphlet. t.f.

C. G. VAN TUBERGEN, JR., HAARLEM, HOLLAND

Choice Dutch Bulbs and Attractive Bulbous Plants.
Catalogues free.
C. C. ABEL & CO., SOLE AGENTS, — Box 920, NEW YORK.

See last or next issue for the following advertisements.

- Berger Mfg. Co.
Belmont Iron Works.
Bridgeport Wood Finishing Co.
Brixey, W. R.
Paul E. Cabaret.
Central Expanded Metal Co.
Frost & Adams.
Gorton & Lidgerwood.
L. Haberstroh & Son.
Thomas J. Hind.
Marcy & Gardner.
N. Y. Metal Ceiling Co.
Okonite Co.
J. B. Prescott & Son.
Samson Cordage Works.
Stebbins Mfg. Co.
Thorn's Single and Ornament Co.
Stewart Ceramic Co.
N. & G. Taylor Co.

See the first issue of the month for the following advertisements.

- Alsen's Portland Cement Works.
Baily & Truscott.
T. H. Brooks & Co.
Folsom Snow Guard Co.
Brooks, Shoobridge & Co.
Farrand & Votey Organ Co.
I. P. Frink.
Lane Bros.
McCully Glass Company.
E. Thiele.
Penn Iron Roofing & Corrugating Co.
Wm. R. Pitt.
Ludlow Saylor Wire Co.
S. Wilks Mfg. Co.
BUILDING PATENTS.
(Alterations and Additions Continued.)
Germantown, Pa. — Tulpehocken St., No. 123, alterations and one-st'y addition; con., William J. Patterson, Southampton Ave., Chestnut Hill.
Harvey St., No. 8, two-st'y brick addition; con., H. H. Buzby, 5258 Main St.
Walnut St., No. 4109, three-st'y brick and stone back building added to dwelling, 29' x 49', and 3 bay-windows; about \$15,000; own, T. A. Longstroth; con., George M. Hearst, 427 West School St.
Philadelphia, Pa. — North Thirteenth St., No. 667, interior alterations and three-st'y brick back building; con., P. H. Somerset, 1513 North 12th St.
Market St., No. 1432, front and interior alterations to four-st'y brick store; con., H. M. Irwin, rear, 42 South 16th St.
North Sixteenth St., No. 1619, interior alterations and mansard roof on three-st'y dwelling; con., Nutz & Worthington, 1308 Wallace St.
South Sixth St., Nos. 518-20, alterations and 2 four-st'y additions to four-st'y store and dwelling; con., John Norris, 1016 Pine St.
Woodland Ave., No. 3617, interior and exterior alterations and two-st'y brick building; con., Chas. A. Bunch, 26 North 37th St.
Market St., s. e. cor. 18th St., 4 additional iron, brick and stone stories on three-st'y store and seed warehouse; con., Stacy Reeves & Son, 1611 Filbert St.
Lombard St., s. s. w. 25th St., alterations to carshed; con., Charles McCaul, 109 North 11th St.

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING,
NEW YORK.

DREXEL BUILDING,
PHILADELPHIA.

MONADOCK BUILDING,
CHICAGO.

DASHWOOD HOUSE,
LONDON.



Announce to all who contemplate *building or renovating*
Hotels, Office Buildings or Residences, that they have
formed a department in their extensive works for

**Architectural Woodwork,
Fine Cabinet Work, and
Interior Finishing.**

Plans, designs, specifications and further particulars will be submitted on ap-
plication. Address **WORKS AT WILMINGTON, DEL.**

BUILDING INTELLIGENCE.

(Alterations and Additions Continued.)

Cherry St., s e cor. 19th St., interior alterations and one-sty brick back building; con., Doan & Biles, 38 South 17th St.

Second St., below Erie Ave., one-sty brick addition to boiler-house; bld., S. B. McBowen, 2144 North 20th St.

South Twentieth St., No. 1421, interior alterations and two-sty brick building; con., Harris & Sherlock, 927 Federal St.

Walnut St., No. 925, 2 additional stories on two-sty brick building of publishing house; con., Joseph Price, 123 Locust St.

Aramingo St., e s Cedar and Memphis Sts., interior alterations to church; con., Demerit Parsons, 2527 Cedar St.

Eleventh St., Nos. 117-119, front and interior alterations and 3 additional brick stories on one-sty brick building; con., T. E. Krewson, 803 Master St.

North Broad St., No. 991, interior alterations and two-sty brick and stone addition to dwell.; about \$7,000; own., Susan N. Dock, 991 North Broad St.; con., Kemp & Garrison, 1330 Olive St.

Ontario St., e s n Poplar St., interior alterations and two-sty brick back building; con., John H. Brinkworth, 2152 East Dauphin St.

North Sixteenth St., No. 1419, interior alterations and one-sty brick back building; con., Cockhill & Shephard, Willow St., Germantown.

Ridge Ave., No. 2423, interior and exterior alterations to brick, frame and iron building for store purposes; con., John J. Flood, 2042 Diamond St.

North Second St., No. 211, alterations and repairs to three-sty brick store; own., Calhoun Derringer, 1619 Spruce St.

South Second St., Nos. 1513-1515, alterations and 2 two-sty brick back buildings; own., John McCrean, 1517 South Front St.

De Lancy Pl., No. 1811, three-sty brick addition to back building; own., Geo. S. Philler; con., James F. Hoctor, 4621 Lancaster Ave.

Howard St., e s, below Girard Ave., additional brick story on two-sty Mechanical Trade School; con., William Christy, 1606 Wharton St.

South Seventeenth St., No. 30, front alteration to store and three-sty back building; con., Joseph F. Myers, 516 Willow St.

Nansom St., s w cor. 8th St., extensive interior and exterior alterations to basement and first story of six-sty restaurant building; con., P. O'Meara, 1930 North 23d St.

Mend St., n e cor. Front St., alterations and three-sty brick addition to store and dwell.; con., Chas. L. Hill, 208 Carpenter St.

Woodbine Ave., s s e Buckline St., additional brick story on two-sty dwell.; own., Thomas Smith, Buckline St. and Woodbine Ave.

South Second St., No. 1339, alterations and two-sty brick building to dwell.; con., C. Cumberly, 811 Wharton St.

Mary St., n w cor. Front St., one-sty brick addition to saloon; con., John P. Kidd, 1332 South Third St.

Spruce St., n e cor. Broad St., interior alterations to six-sty brick hotel; con., C. A. Snyder, 2258 Wilmington St.

Walnut St., No. 2263, exterior and interior alterations and new brick front to three-sty and mansard roof dwell.; con., William Smith, 2332 North Broad St.

Quincy, Mass.—Two-sty frame addition to Congregational Church, deck roof, 30' x 60'; \$6,500; own., Evangelical Cong. Society; arch., J. Murray, 120 Tremont St., Boston; contract not let.

Roxborough, Pa.—River Road, above Fountain St., second story brick addition on frame vat building of paper mill; con., John W. Fritzinger, 468 Lyceum Ave.

Trainer, Pa.—Addition to grammar school; about \$3,250; con., W. J. Hewes & Bro., South Chester.

Wayne, Pa.—Alterations to house of T. Stuart Wood; arch., Boyd & Boyd, 238 South Third St., Philadelphia.

APARTMENT-HOUSES.

Chicago, Ill.—John Boeyston, three-sty flats, 526 Cleveland Ave.; \$7,000.

BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

Dennis Murphy, three-sty flats, 3163 Emerald Ave.; \$3,900.

John Flaherty, three-sty flats, 3820 Lowe Ave.; \$6,000.

Mrs. Breene, three-sty flats, 414 Winchester Ave.; \$5,000.

James Miles, two-sty flats, 1646 Adams St.; \$4,500.

Mrs. A. Baldwin, three-sty flats, 1242 Monroe St.; \$6,000.

John Petzer, three-sty flats, 290 Poplar St.; \$4,500.

Mrs. Rehrman, three-sty flats, 609 Albany Ave.; \$4,000.

Frank Roden, 3 two-sty flats, 7237-7241 Stony Island Ave.; \$5,000.

James Singer, two-sty flats, 6346 Greenwood Ave.; \$4,000.

T. D. Hurley, three-sty flats, 3221 Prairie Ave.; \$7,000.

John Collins, three-sty flats, 922 Walnut St.; \$6,500.

C. Rodellus, two-sty flats, 1220-1224 Oak Grove Ave.; \$8,000.

S. J. Swanson, two-sty flats, 1533 Otto St.; \$6,500.

Patrick Hogan, two-sty flats, 79 Seelye Ave.; \$5,000.

Karl Kalmatin, two-sty flats, 453 Rice St.; \$5,000.

C. W. Carstrom, three-sty flats, 5700 Morgan St.; \$5,000.

H. Brendt, three-sty flats, 310 Sheffield Ave.; \$4,000.

F. Rutner, three-sty flats, 21 De Kalb St.; \$3,000.

E. Johnston, three-sty flats, 749 Clifton Ave.; \$4,500.

J. A. Miller, three-sty flats, 1504 Newport Ave.; \$5,000.

Mrs. Sarah Duttall, two-sty flats, 3613 Kimbark Ave.; \$3,500.

C. C. Wolcott, three-sty flats, 4620 Langley Ave.; \$8,000.

Charles Bublitz, two-sty brick flats, 2078 West Adams St.; \$3,000.

J. J. Gilroy, three-sty brick flats, 422 Forty-first St.; \$9,000.

A. D. & L. Sprague, two-sty brick flats, 1101 Bonney Ave.; \$3,200.

A. J. Hall, two-sty brick flats, 1747 Twenty-second St.; \$4,000.

Henry Reichert, two-sty brick flats, 822 Turner Ave.; \$3,000.

J. G. Matthews, three-sty brick flats, 1157 Washington St.; \$30,000.

E. Mikkelsen, two-sty brick flats, 1111 Maplewood Ave.; \$4,000.

F. Edwards, three-sty brick flats, 1717 Sherman Ave.; \$5,000.

Stephen Gosselin, three-sty brick flats, 455 Hermitage Ave.; \$6,700.

John Howard, three-sty brick flats, 2035 Armour Ave.; \$6,000.

J. Krause, three-sty brick flats, 45 Seminary Ave.; \$5,500.

M. Gacsek, three-sty brick flats, 3400 Mospratt St.; \$4,000.

Ellen McDonald, four-sty brick flats, 351 Chestnut St.; \$16,000.

R. S. Martin, two-sty brick flats, 1077 Kimball Ave.; \$4,000.

New York, N. Y.—Eightieth St., s s, 100' w Amsterdam Ave., 2 five-sty brick flats, flat tin roofs, 25' x 89', 59' high; \$52,000; own., Wm. H. Ramsay, 14 West 60th St.; arch., Geo. F. Pelham, 503 Fifth Ave.

Eight Ave., No. 45, five-sty brick flats, flat tin roof, 22' x 64', 58' high; \$15,000; own., Joseph Doyle, 325 West 18th St.; arch., Frederic Wandelt, 58 West 19th St.

Eight Ave., s w cor. 81st St., 4 five-sty brick flats, flat tin roofs, 20', 30', 42' x 69' x 89', 60' high; \$130,000; own., George A. Dewig, 153 West 79th St.; arch., G. A. Schellinger, 128 Broadway.

Broome St., n w Margin St., 2 five-sty brick flats, flat tin roofs, 25' x 76', 59' 10" high; \$40,000; own., Fay & Staecom, 337 Pleasant Ave.; arch., Charles Rentz, 153 Fifth Ave.

One Hundred and Thirty-eighth St., s s, 65' w

ARCHITECTURE



DIPLOMAS AWARDED. Courses in other trades all including thorough instruction in Mathematics and Physics. Send for FREE circular stating subject you wish to study to The Correspondence School of Industrial Sciences, Scranton, Pa.

BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

Brook Ave., 4 five-sty brick flats, flat tin roof, 25' x 87', 50' high; \$20,000; own., Thomas J. McGuire, s e cor. 159th St. and St. Nicholas Ave.; arch., James W. Cole, 403 West 51st St.

Park Ave., No. 1089, five-sty brick flats, flat tin roof, 19' x 65', 58' high; \$15,000; own., Roger E. O'Connor, 437 East 80th St.; arch., Theo E. Thomson, 247 West 125th St.

Philadelphia, Pa.—Lombard St., No. 1516, four-sty brick apart. with back building; about \$10,000; con., William J. Mingle, 923 Locust St.

St. Louis, Mo.—Three-sty flat, w s 18th St., bet. Mullamphy and Madison Sts.; \$4,500; own., Mrs. P. Caven.

Worcester, Mass.—Thomas St., four-sty brick apart., 74' x 82'; \$32,000; own., Mrs. Chas. F. Washburn; con., H. W. Eddy; arch., Earle & Fisher.

CLUB-HOUSES.

Brooklyn, N. Y.—Clinton St., Nos. 25-27, e s, four-and-one-half-sty brick club-house, tin and galvanized-iron roof, 50' x 100'; \$45,000; own., Joseph Wechsler, Fulton St. and Bedford Ave.; arch., P. J. Lauritzen, 16 East 23d St., New York City.

EDUCATIONAL.

New Haven, Conn.—Hove and Oak Sts., brick school, 71' x 158'; own., State of Connecticut.

Newton Centre, Mass.—Institution Ave., brick, stone and terra-cotta structure for library and reading-rooms, slate roof, 56' x 102'; \$35,000; own., The Newton Theological Institution; bld., W. S. Sampson; arch., Kendall & Stevens, Boston.

Philadelphia, Pa.—Horter and Musgrave Sts., two-sty stone school, 554' x 147'; about \$44,000; con., Johnston & Byrnes, 1217 Filbert St.

Ridgewood, N. J.—Plans for school have been accepted; arch., J. Warner, East Orange, N. J.

Springfield, Vt.—Two-sty and basement brick and stone school, 100' x 112'; \$25,000; arch., H. R. Beckwith, Claremont, N. H.

ENGINE-HOUSES.

Camden, N. J.—Arch St., n w cor. 5th St., three-sty city fire-engine house; arch., Moses & King, 431 Walnut St., Philadelphia, Pa.

Searsdale, N. Y.—Two-sty fire engine house, 25-50; about \$3,000; con., Holden & Hall.

FACTORIES.

Chicago, Ill.—Schaller & Stabford, three-sty brick factory, Cherry St., cor. Branch St.; \$6,000.

Philadelphia, Pa.—Germantown Ave., e s, above 7th St., two-sty brick spice-mill; con., William C. Hyzer, 230 Richmond St.

HOUSES.

Baltimore, Md.—Three-sty brick dwell., w s Druid Hill Ave., bet. Kensett and Retreat Sts.; own., Jno. Lattier, 1410 Retreat St.

Two three-sty brick dwells, w s Druid Hill Ave., bet. Kensett and Retreat Sts.; own., M. Pht, 2547 Pennsylvania Ave.

Ten two-sty brick dwells, w s Pulaski St., n Walbrook Ave.; own., Charles A. Lipp, 1635 North Caroline St.

Nine three-sty brick dwells, e s Mt. Royal Ave., bet. Townsend and Mosher Sts.; own., Henry Baker, 1120 East Lanvale St.

Two two-sty brick dwells, e s Montgomery St., bet. Fremont and Claret Sts.; own., H. L. Sandler, 812 Scott St.

Three three-sty brick dwells, beg. cor. Cross St. and Goodman Alley; own., Edward Kelly, 1044 South Charles St.

Five two-sty brick dwells, n s Madison St., bet.

A NEW PLUMBING MATERIAL.

IT CANNOT RUST OR EAT OUT.

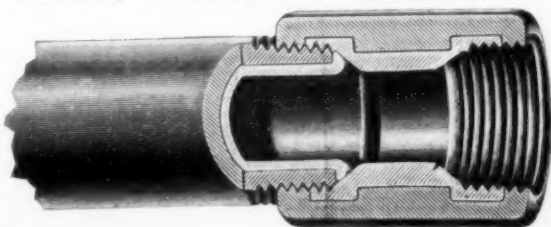
ALL FITTINGS ARE LEAD-LINED AND HAVE A PORTION OF THE THREAD IN LEAD.

WHEN COUPLED UP, A PERFECTLY TIGHT LEAD JOINT IS MADE (see cut.)

NEW ENG. WATER-PIPE CO.

Wakefield, Mass.

Lead-lined Iron Water-pipe and Fittings
... FOR ...
SUPPLY, VENTILATION AND SOIL PIPE.



IT IS MUCH CHEAPER THAN LEAD PIPE.

IS NOW USED IN FORTY CITIES AND TOWNS.

IT CAN BE CUT WHEREVER DESIRED AND ENDS PERFECTLY PROTECTED.

IT IS MUCH STRONGER THAN LEAD PIPE.

WE USE STANDARD IRON PIPE AND FITTINGS.

Iron Work.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,

BEAMS, CHANNELS, ANGLES, ZEEs, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.Round, Square and Flat Bars
of all sizes.

SPECIALTIES:

PHENIX COLUMNS AND UPSET EYE-BARS

Of all sizes, in Iron or Steel.

ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.

AGENTS:

New York: EDWARD CORNING & Co., 29 Broadway.

Chicago: A. C. STILES, 931 Rookery Building.

Boston: EDWARD CORNING & Co., 70 Kilby Street.

PASSAIC ROLLING MILL CO.,

PATERSON, N. J.

STEEL BEAMS

4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

NEW YORK OFFICE, - - 45 BROADWAY

J. S. THORN CO.

Architectural Sheet-Metal Works.

Metal Building Trimmings, Ventilating Skylights
Metallic Roofing Tiles, Building Specialties, Builders'
Light Iron Work of every description.

Nos. 1225 to 1229 Callowhill Street,

PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Houses Continued.)

Chapel and Washington Sts.; own., J. H. Danzeg-
brook, 1917 East Monument St.Brooklyn, N. Y. - *Milford St.*, s. s. 210' s Eastern
Parkway, 5 two-st'y frame dwells., tin roofs, 20' x
30'; total, \$11,000; own. and bld., Donald Laing,
Belmont St. and Atkins Ave.*St. Mark's Ave.*, s. s. 260' 41" e Troy Ave., three-
st'y frame dwell., tin roof, 25' x 50'; \$3,700; own.,
Chas. Morton, 1012 St. Mark's Ave.*Chauncy St.*, n. s. 228' e Hopkinson Ave., two-st'y
and basement frame dwell., tin roof, 20' x 45';
\$2,000; own., T. B. Bryant, 272 Lewis Ave.; arch.,
I. D. Reynolds & Son, Arbuckle Building.*Bainbridge St.*, s. s. 224' e Hopkinson Ave., 4 two-
st'y and basement frame dwells., tin roofs, 20' x 45';
\$2,000 each; own. and bld., T. B. Bryant, 272 Lewis
Ave.; arch., I. D. Reynolds & Son, Arbuckle
Building.*Market St.*, w. s. 25' n Weldon St., 3 two-st'y frame
dwells., tin roofs, 20' x 30'; \$2,000 each; own., Chas.
J. Kiesel, Blake and Schenck Aves.*President St.*, n. s. 100' e Hicks St., 5 three-st'y
brick dwells., tin roofs, 17' 6" x 35'; \$5,000 each;
own., Geo. E. Corcoran, 252 254 Court St.*Ocean Boulevard*, w. s. two-st'y frame dwell. and
stable, shingle roof, 28' x 42'; \$5,700; own., Samuel
Devere, 184 Schermerhorn St.; arch. and bld.,
Taylor & Son, Elmhurst Ave. and Ocean Boulevard.Burlington, Vt. - Two-st'y brick and stone dwell.,
pitch roof, 50' x 70'; \$14,000; own., Rt. Rev. A. C. A.
Hall; bld., H. J. E. Bailey; arch., Sturges & Cabot,
Boston.Camden, N. J. - *Spencere St.*, No. 1119, two-st'y
dwell.; con., Isadore Green, 1410 Locust St., Liberty
Park.*Kaughn Ave.*, No. 1271, two-st'y brick dwell., 22' x
61'; con., Isadore Green, 1410 Locust St.*Eighth St. and Woodland Ave.*, two-st'y frame
dwell.; own., George W. Lee.*Fairview St.*, No. 677, two-st'y frame dwell.; own.,
R. H. Kramer, 123 North Connecticut Ave., Atlantic
City.Chicago, Ill. - *L. C. Newton*, two-st'y dwell., 5810
Wabash Ave.; \$3,500.*Mrs. K. B. Peterson*, two-st'y dwell., 6345 Green-
wood Ave.; \$3,500.*J. M. Carlson*, two-st'y dwell., Maple St., cor.
Pratt Ave.; \$3,000.*E. R. Hall*, two-st'y dwell., 91 Seventy-fourth St.;
\$3,000.*C. Bareky*, two-st'y brick dwell., 6090 Indiana
Ave.; \$12,000.*J. A. Sleeper*, 2 two-st'y brick dwells., 5743-5745
Washington Ave.; \$13,000.*M. Rice*, two-st'y brick dwell., 4927 St. Laurence
Ave.; \$3,000.*A. J. & A. M. Koch*, 2 two-st'y brick dwells., 1218-
1220 Flournoy St.; \$9,400.*Carely & Southward*, 2 two-st'y brick dwells., 682-
684 Forty eighth St.; \$11,000.*E. Gochat*, 2 two-st'y brick dwells., 333-335 Fifty-
fourth St.; \$7,000.*D. A. Bridgton*, two-st'y frame dwell., 59th St. and
Western Ave.; \$6,000.Danbury, Conn. - Frame dwell., pitch roof, 40' x
50'; own., T. C. Millard; arch., A. H. Baers, Bridge-
port, Conn.; contract not let.Fox Chase, Pa. - *Leamy St.*, n. s. w Kensington and
Oxford Pikes, three-st'y stone and frame dwell., 28'
x 24'; con., Joseph Ashley.Germantown, Pa. - *Township Line and Queen's
Lane*, 4 three-st'y local stone dwells.; own., William
G. Warden; arch., Mantle Fielding, 110 South 4th
St., Philadelphia.*Harter St.*, n. w cor. Crowson St., two-st'y brick
and stone dwell. with back building; own., Martin
Hetzel, 45 Church St.

JACKSON ARCHITECTURAL IRON WORKS,

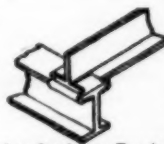
ESTABLISHED 1840.

IRON

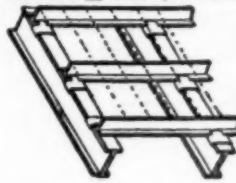
Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams,
Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings
and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze.
Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts.

Office, 315 East 28th St., New York.



H. A. Streeter's Patent Clip

ARCHITECTS, OWNERS, CONTRACTORS, and all
others interested in Iron or Steel construction will please
note that I have PATENTED A STEEL CLIP for connect-
ing Angle or Tee bars to I Beams, etc., which reduces the expense one-half,
and does away with the old method of Drilling and Bolting, which is a great sav-
ing of Time, besides allowing an easy method of adjusting Tee bars to any de-
sired width of Tile. (This method is now adopted by our principal contractors).
Clips furnished ready to apply by sending the Sections and weight of Tee
Bars and I Beams, for which connections are wanted.

FOR PRICES AND FURTHER INFORMATION

APPLY TO STREETER

Globe Iron Works,

35-41 E. INDIANA STREET,

CHICAGO, - - - ILL.



ORNAMENTAL

IRON
WORK

PRISMATIC

LIGHT
WORKDAUCHY IRON WORKS
84-92 ILLINOIS STREET
* CHICAGO *

BUILDING INTELLIGENCE.

(Houses Continued.)

U'pal St., n. e cor. Pelham Road, 2 three-st'y brick
and stone dwells. with back buildings; own., Wen-
dell & Smith.Hazleton, Pa. - Frame dwell.; own., L. S. Allison;
about \$12,000; arch., Davis & Houpt, Common-
wealth Building, Scranton, Pa.Langhorne, Pa. - *Maple Ave.*, dwell.; own., Edward
C. Need.New Haven, Conn. - *Cold Spring St.*, cor. Whitney
Ave., frame dwell., 35' x 45'; \$12,000; own., Geo. F.
Holcomb.Newport, N. H. - Two-st'y pressed brick and brown-
stone dwell.; \$7,000; own., Hon. Dexter Richards;
arch., H. R. Beckwith, Claremont, N. H.; contract
let.New York, N. Y. - *Fifth Ave.*, No. 964, four-st'y
brick dwell., flat tin roof, 25' x 90', 50' high; \$20,000;
own., Dr. George H. Butler, 42 East 66th St.; arch.,
Thomas Graham, 1236 Madison Ave.*Seventy-first St.*, Nos. 161-164, 2 four-st'y brick
dwells., flat tin roofs, 12' x 35', 50' high; \$23,000;
own., Jennie Graham, 1236 Madison Ave.; arch.,
Thomas Graham, 1236 Madison Ave.*East Seventy-fifth St.*, Nos. 4-8, four-st'y brick
dwell., flat tin roof, 50' x 72', 54' high; \$40,000; own.,
N. L. McCready, 10 West 23d St.; arch., Trowbridge,
Colt & Livingston, 287 Fourth Ave.*Franklin Ave.*, w. s. 185' n 167th St., three-st'y
brick dwell., flat tin roof, 37' x 60', 50' high; \$15,000;
own., Rev. T. F. Gregg, Jefferson St. and Franklin
Ave.; arch., Louis H. Geibbe, 74 West 23d St.Philadelphia, Pa. - *Jackson St.*, n. w s. w Cottage
St., two-st'y brick dwell. with brick back building;
con., Edward Vansant, Oakford, Bucks Co., Pa.*Lawrence St.*, e. s. bet. Penn and Queen Sts., two-
st'y brick and stone dwell., 16' x 45', and two-st'y
stable, 20' x 30'; own., George A. Datscheg, 444
Queen St.*Peltz St.*, s. s. w 29th St., 6 two-st'y brick dwells.
with back buildings; own., Chas. B. Kelly, 900
Sutherland Ave.*Whitby Ave.*, s. s. w Baltimore Ave., 12 two-st'y
brick dwells. with back buildings; con., John J.
Raney, 293 Hale Building; own., Frank W. Malcolm.*Wheat St.*, w. s. n Reed St., two-st'y brick dwell.;
con., C. C. Cumberly, 811 Wharton St.

BUILDING INTELLIGENCE.

(Houses Continued.)

Cornwall St., s. s. e Kensington Ave., 20 two-st'y
brick dwells.; own., Sundgard & Myers, 234 Glen-
wood Ave.*Orleans St.*, s. s. w Helen St., 7 two-st'y brownstone
and brick dwells. with back buildings; own., Brown
& Mulholland, 2145 Dickinson St.*Broad St.*, e. s. n Butler St., three-st'y brick
dwell. with back building; bld., Benjamin Walker,
3953 Germantown Ave.*Penn St.*, s. e s. 55' n e Wakeling St., 2 three-st'y
brick and frame dwells. with back building; own.,
Robert F. Corson, 4629-31 Frankford Ave.*Ruth St.*, w. s. s Orleans St., 3 two-st'y brick and
stone dwells.; own., Carl Schiedt, 2966 Ruth St.*Tioga St.*, No. 2107, three-st'y brick dwell. with
back building; con., B. Ketchum's Sons, 1029 Brown
St.*Stiles St.*, s. s. e Orthodox St., 2 two-st'y brick
dwells. with frame back buildings; con., Fred Mc-
Ploncher, 4532 Salmon St.*Weccaco and Bigler Sts.*, two-st'y frame dwell.;
own., A. W. Louth, 1809 South 2d St.*Stockel St.*, e. s. s Cambria St., two-st'y brick and
stone dwell. with back building; con., Michael
McShane, 1915 Bristol St.*Wyoming St.*, n. s. w Fishers Lane, three-st'y brick
dwell., 20' x 30', with back building, 14' x 18'; also
frame stable; own., George Nayal, 1536 Germantown
Ave.*Leidy Ave.*, s. w s. 428' 51" n w Girard Ave., 4 three-
st'y brick dwells. with back buildings; own., Wm.
R. Coffin, 328 Chestnut St.Scranton, Pa. - Dwell. to be built of white sand-
stone for first story with shingles above; about
\$15,000; arch., Davis & Houpt, Commonwealth
Building.St. Louis, Mo. - Dwell., n. s. Horton Pl., bet. Hamil-
ton St. and De Hodlamone Ave.; \$3,000; own., N.
Hill.Two-st'y dwell. and stable, s. s. Pine St., bet. New-
stead and Boyle Sts.; \$2,500; own., Mary Logemann.Swarthmore, Pa. - Dwell.; con., Mr. Lewis; own.,
Frank Sauter, Morton, Pa.Unadilla, N. Y. - Frame dwell.; about \$10,000; own.,
H. Y. Canfield; arch., Davis & Houpt, Common-
wealth Building, Scranton, Pa.

Dwell. to cost about \$3,000; own., C. H. Belknap;

THE J. L. MOTT IRON WORKS,

84 to 90 Beekman Street, New York.

311 and 313 Wabash Avenue, Chicago.

322 and 324 Boylston Street, Boston.

Wainwright Building, St. Louis.

Flood Building, San Francisco.



Copyright, 1893, by THE J. L. MOTT IRON WORKS, in their publications. Plate 1087G. (Reduced cut.)

IMPERIAL PORCELAIN ROLL-RIM BATHS.

ILLUSTRATED PRICE-LIST MAILED ON APPLICATION.

FINE appearance, durability, and perfection from a sanitary standpoint are all combined in these baths. They entail no labor, scouring or burnishing, requiring merely to be wiped out with a sponge to be thoroughly cleaned.

Interested parties are invited to visit our showrooms and examine these and other sanitary appliances.

BUILDING INTELLIGENCE.

(Houses Continued.)

arch., Davis & Hought, Commonwealth Building, Scranton, Pa.

Worcester, Mass.—*Southbridge St.*, two-st'y frame dwell., 36' x 45'; \$4,000; own., J. C. Normand; day-work.

MERCANTILE BUILDINGS.

Hazleton, Pa.—*Church and Broad Sts.*, three-st'y building, 50' x 150', with wing 42' x 50'; on the first floor there will be three stores, nineteen offices on the second floor and a wholesale warehouse; about \$32,000; arch., Davis & Hought, Commonwealth Building, Scranton, Pa.; own., William Deisroth.

OFFICE-BUILDINGS.

New York, N. Y.—*Doyers St.*, Nos. 6-10, five-st'y brick office-building, flat plastic slate roof, 48' x 76', 50' high; \$48,000; own., Bogert & Schoner, 319 East 17th St. and 264 Penn St., Brooklyn.

Philadelphia, Pa.—*Chestnut St.*, No. 1731, office-building for G. F. Peal will be built; arch., Moses & King, 431 Walnut St.

STABLES.

Baltimore, Md.—Two-st'y brick stable, 32' x 35'; w s Spring St., n Canton Ave.; own., Standard Oil Co., 33 South Gay St.

Brooklyn, N. Y.—*Seventh St.*, n s, 241' w 8th Ave., two-st'y brick stable, slate and tin roof, 30' x 40' 5"; \$6,500; own., M. E. Hospital, 6th St. and 7th Ave.; arch., John Mumford, 189 Montague St.

New York, N. Y.—*Eighty-second St.*, Nos. 593-595, four-st'y brick stable, flat tin roof, 40' x 84', 50' high; \$27,000; own., Leon Label, 1487 First Ave.; arch., Fred Ebling, 325 East 89th St.

Philadelphia, Pa.—*Battleton Pike and Fox Chase Road*, one-st'y frame stable, 16' x 130'; own., Hugh Henderson, 2502 Kensington Ave.

Bigler St., n s, e Delaware Ave., two-st'y stone stable, 20' x 40'; own., A. W. Louth, 1809 South 2d St.

Unadilla, N. Y.—Stable in connection with the Bishop Hotel, to cost about \$3,000; arch., Davis & Hought, Commonwealth Building, Scranton, Pa.

STORES.

Chicago, Ill.—*J. P. Smith*, four-st'y store and flats, 130-136 State St.; \$10,000.

U. A. Weaver, 3 four-st'y stores and flats, 275-277 Ontario St.; \$15,000.

Simon Wilman, 3 two-st'y stores and dwell., 1225-1229 Armitage Ave.; \$15,000.

H. Schroeder, two-st'y store and flats, 2704 Lowe Ave.; \$3,000.

Lambert Tree, two and three-st'y store and studio building, 101-119 North State St.; \$55,000.

Mrs. J. Julia Dewitz, four-st'y store and flats, 338-346 Forty-third St.; \$18,000.

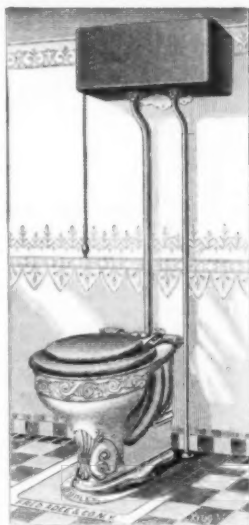
L. Hobbs, 5 one-st'y stores, 515-525 Forty-seventh St.; \$5,000.

Thomas Dickson, two-st'y store and dwell., 956 Sixty-seventh St.; \$3,000.

The New England Deposit Co., five-st'y store and office, 118 West Madison St.; \$13,000.

A. Abrahamson, four-st'y brick store and flats, 374 West North Ave.; \$6,000.

C. P. Dison, two-st'y brick store and flats, 359 Laurence Ave.; \$4,000.



"DUPLIX"

THE BEST WATER CLOSET

IN THE WORLD

Quiet in Operation,
Positive in Action,
Elegant in Appearance
—AND—
Sanitary Perfect.

FRED. ADEE & CO.,

90 BEEKMAN ST.,

NEW YORK.

BUILDING INTELLIGENCE.

(Stores Continued.)

Charles Classan, two-st'y frame store and flats, 1223-5 Halsted St.; \$3,000.

Edward O'Connell, three-st'y brick store and flats, 5709 Wentworth Ave.; \$15,000.

C. Vaniczkeski, three-st'y brick store and flats, 699 North Ashland Ave.; \$7,000.

New York, N. Y.—*Catharine St.*, 30' 2" w Madison St., five-st'y brick store-building, flat plastic slate roof, 18' x 90', 55' high; \$17,500; own., Wm. Hart, 34 Catharine St.; arch., D. W. King, 96 Fifth Ave.

Philadelphia, Pa.—*South St.*, No. 108, three-st'y brick store and dwell. with back building; con., H. Brownstein & Co., 329 German St.

Alder St., No. 1205, three-st'y brick store; con., John A. Wilson, 1222 North 11th St.

WAREHOUSES.

Baltimore, Md.—Four-st'y brick warehouse, 404 Davis St.; own., Patrick Rodgers, 228 Park Ave.

Seven-st'y brick warehouse, 104' x 130'; e s Hanover St., bet. Pratt and Lombard Sts.; own., Hy. Smith, Jr.

Philadelphia, Pa.—*Beach St.*, e s, s Shackamaxon St., four-st'y iron and brick flour warehouse, 179' x 50', for Merchant's Warehouse Co.; \$100,000; own., Pa. Railroad Co.

Ash St., n Morris St., five-st'y brick sugar-house, 124' x 74'; own., McCahan Sugar Refinery Co., about \$21,000; con. Samuel Hart & Sons, 1109 Fairmount Ave.

BUILDING INTELLIGENCE.

MISCELLANEOUS.

Ansonia, Conn.—Brick foundry building, iron roof, 76½' x 168'; own., Birmingham Iron Foundry, Derby, Conn.; contracts are let.

Chicago, Ill.—Chicago Electric Transit Co., one st'y and basement brick power-house, Roscoe Boulevard; \$150,000.

Chicago Electric Transit Co., two-st'y and basement brick car-barn, Elston and Warner Aves.; \$35,000.

Frankford, Pa.—*Battleton Pike*, e s, below Bell's Corner, glass and frame hot-house; own., James M. Gillilan, Nicetown, Lane.

Philadelphia, Pa.—*Richmond St.*, No. 2361, frame wagon-shed; own., John Allen, 2356 Richmond St.

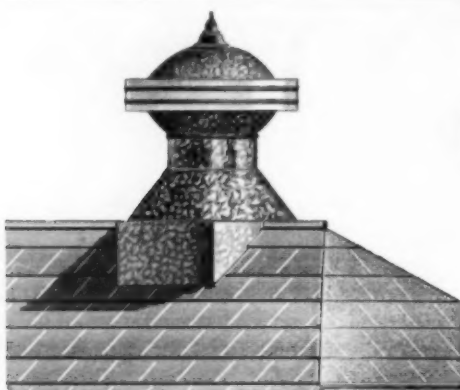
Washington Ave., at Pennsylvania Railroad Company's wharf, frame hose-tower, 60' high, 8½' square; con., Henry L. Franks, 831 North 13th St.

Sedgely Ave., w 12th St., one-st'y brick office, two-st'y brick stable and frame coal-shed; con., Armstrong & Printzenhoff, 136 South 4th St.; all the above are in connection with coal-yard of Henry, Bayard & Co.

Edwin St., No. 1725, two-st'y brick and stone back building; con., Porter Thompson, 2031 Filbert St.

Haines and Fifteenth Sts., one-st'y frame workshop and warehouse; own., Northwood Cemetery Co., Haines and 15th Sts.

Scranton, Pa.—Three-st'y and basement Home for the Friendless; to be built of brick with slate roof,



The Proverbial Cucumber

is not cooler than a

HOUSE, HALL, CHURCH OR FACTORY

that is ventilated by the

GLOBE VENTILATOR.

Send for Circular on the Subject.

GLOBE VENTILATOR COMPANY,
TROY, NEW YORK.

Put into the White House by the U. S. Government.

SEALS WITH OR WITHOUT WATER

CUDELL
Anti-Siphon Trap

For venting, use vent-top.
For venting, use vented outlet

F. E. CUDELL'S
PATENT SEWER-GAS AND BACK-WATER TRAP.
For Wash-Bowls, Sinks, Bath and Wash-Tub
West Cleveland, O.

THE VAN VRANKEN FLUSH TANK.
For Sewers, Subsoil Disposal, etc.
For catalogues, discounts and other particulars, address
J. LELAND FITZGERALD,
437 STATE STREET, SCHENECTADY, N. Y.

"THE CAST SINK MUST W-O"

THE COLUMBUS SINK DISPLACES ALL OTHERS
WROUGHT STEEL
PAINTED, GALVANIZED, ENAMELLED.
Send for descriptive circular and prices, to
The Kilbourne & Jacobs Mfg. Co.
Sole Manufacturers. — COLUMBUS, OHIO.

MOORE'S
GAS JET
VENTILATOR.



INSURES
AT
ALL TIMES
THOROUGH
VENTILATION.

HAINES, JONES & CADBURY CO.,
Sole Manufacturers,
1136 Ridge Ave., PHILADELPHIA.

PROPOSALS.

American Natural Hydraulic Cement will be received here until 12 M., August 20, 1894, and then publicly opened. All information furnished on application. R. L. HOXIE, Captain of Engineers, United States Army. 973

LIGHT-STATION. [At Crooked River, Fla.]
Proposals are wanted until September 11, for buildings and metal-work for light-station. Address MAJOR JAMES B. QUINN, C. of E., U. S. A., Seventh District, New Orleans, La. 976

HOTEL. [At Columbus, O.]
Proposals are wanted until August 25, for the Great Southern fireproof hotel and opera house. Address JERRY P. BLISS, Secretary, as above. 973

OFFICERS' QUARTERS, ETC. [At Plattsburgh, N. Y.]
Proposals are wanted until August 30, for officers' quarters, plumbing, wardrobe-lockers, etc. Address CAPT. GEORGE E. FOND, A. Q. M., U. S. A., as above. 974

OIL-HOUSE. [At Fort Ethan Allen, Vt.]
Proposals are wanted until August 30, for a mineral-oil house. Address CAPT. GUY HOWARD, A. Q. M., U. S. A., Burlington, Vt. 974

SCHOOL-HOUSE. [At Riverside, Ill.]
Proposals are wanted until September 11, for eight-room school-house. Kuhlmann & DeCamp, architects, Cincinnati, O. Address CLERK OF BOARD OF EDUCATION, as above. 976

SEWER-PIPE. [At Holyoke, Mass.]
Proposals are wanted until August 21, for cast-iron sewer-pipe. Address R. B. HOLMES, Chairman of Committee, as above. 973

CANAL WORK. [At Bureau Junction, Ill.]
UNITED STATES ENGINEER OFFICE,
225 WABASH AVE.,
CHICAGO, ILL., July 27, 1894.

Sealed proposals, in triplicate, for constructing four miles or less of the eastern section of the Illinois and Mississippi Canal between Mile 0 and Mile 4 near Bureau Junction, Ill., and for excavating the lock pits and constructing the foundations for four locks will be received here until 12, noon, central time, August 27, 1894, and then publicly opened. All information furnished on application here or to Assistant Engineer James C. Long, Tiskilwa, Ill. W. L. MARSHALL, Captain, Corps of Engineers. 973

ENGINE-HOUSE, ETC. [At New York, N. Y.]
Proposals are wanted until August 22, for an engine and boiler house, tower and chimney for high service works at the new aqueduct. Address MICHAEL T. DALY, Commissioner of Public Works, as above. 973

BUILDING INTELLIGENCE.

(Miscellaneous Continued.)

stone trimmings; about \$50,000; arch., Davis & Hought, Commonwealth Building.

COMPETITIONS.

MUSEUM OF ANTIQUITIES. [At Cairo, Egypt.]
The Egyptian Government have decided to put into competition the supply of the best project for building a museum for the Egyptian Antiquities in Cairo. Architects of all nations are admitted to compete. The amount allotted for this purpose is £E. 120,000. Awards will be given to the authors of the best projects: the first being fixed at £600 and the next four will have a sum of £E. 400 divided amongst them. The projects should reach Cairo at latest on the 1st March, 1895, at noon.

The programme of this competition will be supplied by the Public Works Department in Cairo, on application. 985

NOTE: — The sterling pound is worth £E. 0.975, and the French piece of twenty francs £E. 0.770.

PROPOSALS.

Proposals for Iron and Marble Work and Cut Granite. Office of Building for Library of Congress, 145 East Capitol Street, Washington, D. C., August 15, 1894. Separate sealed proposals will be received at this office until 2 o'clock P. M. on Wednesday, the 29th day of August, 1894, and opened immediately thereafter in presence of bidders, for furnishing and delivering at the Building for the Library of Congress, in this city, the following materials and work, namely: 1. The ironwork and marble treads of winding stairways in four towers and one straight stairway in the east main pavilion erected in place complete. 2. Cut granite for walls, parapets, steps, etc., of light blue color and fine grain, for approaches. Specifications, general instructions and conditions and blank forms of proposal may be obtained on application to this office. BERNARD R. GREEN, Superintendent and Engineer. 974

Treasury Department, Office Supervising Architect, Washington, D. C., August 10, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 7th day of September, 1894, and opened immediately thereafter, for all the labor and materials required for the iron stairs, interior iron and copperwork, etc., for the United States Custom-house and Post-office at Newark, N. J., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Newark, N. J. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Iron Stairs, Interior Iron and Copperwork, etc., for the United States Custom-House and Post-office at Newark, N. J.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 974

Treasury Department, Office Supervising Architect, Washington, D. C., August 10, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 6th day of September, 1894, and opened immediately thereafter, for all the labor and materials required to put in place complete, all the plumbing, gas-piping and electric-wire conduits for the United States Post-office, Court-house, etc., building at Charleston, S. C., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Charleston, S. C. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in sealed envelopes, and marked "Proposal for the Plumbing, Gas-piping, Elec-

BRICK BARN. [At Providence, R. I.]
Proposals are wanted until August 20, for a brick barn at police-station, No. 5, on Plain St. Plans at office of F. E. Field, architect, 48 Custom House St., as above. 973

BRICK BARN. [At Providence, R. I.]
Proposals are wanted until August 20, for a brick barn at police-station, No. 4, on Knight St. Plans at office of Hoppin, Read & Hoppin, architects, 35 Westminster St., as above. 973

HIGH SCHOOL. [At Boston, Mass.]
Proposals are wanted until August 27, for a high school building in the Brighton District. Address EDMUND M. WHEELWRIGHT, City Architect, as above. 974

BUILDING. [At Polk, Pa.]
Proposals are wanted until August 30, for building the Western Pennsylvania State Institute for the Feeble-minded. Address F. J. OSTERLING, architect, Pittsburgh, Pa. 974

HEATING APPARATUS. [At Hillsboro, O.]
Proposals are wanted until September 11, for heating apparatus for jail and court-house. Yost & Packard, architects, Columbus, O. Address JAMES REECE, County Auditor, as above. 976

CEMENT. [At Pittsburgh, Pa.]
UNITED STATES ENGINEER OFFICE,
PITTSBURGH, PA., July 31, 1894.
Sealed proposals for 2,250 net tons, more or less, of

Fireproof Building.**RARITAN HOLLOW AND POROUS BRICK CO.,**

MANUFACTURERS OF

Hollow Fire-Clay and Porous Terra-Cotta Bricks

of Every Description, for Fireproof Buildings.

BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.

Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.

Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.

HENRY MAURER & SON,

Manufacturers of

FIRE-PROOF BUILDING MATERIAL

Of every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.

Porous Terra-Cotta, Fire-Brick, etc., etc.

Works, MAURER, N. J.

Office and Depot, 420 EAST 23d STREET, New York.

Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."

**C. PARDEE
WORKS,**Manufacturers All Kinds Fireproof Building Materials, etc.
Perth Amboy, N. J. See ad. on page XVI.**PIONEER FIREPROOF
CONSTRUCTION CO.**

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile AND Porous Terra-Cotta**FOR FIREPROOFING BUILDINGS.**

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

**TO ARCHITECTS,
BUILDERS
AND OWNERS.**

Sample and Circulars Free.

MINERAL WOOL,As a Lining in Walls and Floors for preventing the
ESCAPE OF WARMTH AND THE DEADENING OF SOUND.**AMERICAN MINERAL WOOL CO.**

Lessee of

Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N.Y. City.

Roebling STANDARD Wire Lathing
FIREPROOF—DURABLE—ECONOMICALPays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures
a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three
public tests—detailed accounts of which will be mailed to any address upon request.**THE NEW JERSEY WIRE CLOTH COMPANY,
TRENTON, N. J.****Building Stones.****J. P. FALT & COMPANY,**

Quarrymen & Miners of

RED SANDSTONE.

Contractors for CUT-STONE WORK.

Proprietors of Carlisle Quarries, Springfield, Mass.
Prices for rough stone furnished on application,
and estimates made for cut-stone work to be delivered
at any railroad point. Correspondence solicited.
Send for samples.**BOSTON FIRE-BRICK WORKS.****FRONT BRICK**BUFF, BROWN, MOTTLED YELLOW,
GRAY, OLD GOLD AND
OTHER COLORS.**ARCHITECTURAL
TERRA-COTTA**

In all its varied colors and forms.

FISKE, HOMES & CO.,

MANAGERS,

Factories on Federal Street and
at South Boston.

Office, 164 Devonshire St., Boston.

Times Building, Park Row, New York.

927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.

SOLE OWNERS AND MANUFACTURERS OF

J. G. MERRILL'S PATENT

SALAMANDER

Fire-Proof Composition

FOR BUILDINGS.

Used as Lining between
Floors, and upon Walls,
Ceilings, Elevator and
Light Shafts, Boiler Rooms,
Doors, Shutters, etc. It is
Air, Dust, and Vermin
Proof, and a Sound-

Deadener.

Office, 166 Devonshire Street, BOSTON.

A. I. HODDER, Pres.
CHAS. T. BAKER, Treas.
W. D. LOMBARD, Gen. Mgr.Room 49 Master Builders
Association Building.For estimates on
**ASPHALT
WORK**of every descrip-
tion apply to Man-
ager,

T. Hugh Boorman,

N. Y. Mastic Works, 35 Broadway, N. Y.
Asphalt Mine Owners in France, Sicily, etc.**BROOKS, SHOOBRIDGE & CO.,****PORTLAND CEMENT.**Works: Grays, Essex, England.
New York Office: 7 Bowling Green**Massachusetts Material-Men and Contractors.**

ARTIFICIAL STONE.	FIREPROOFING.	HEATING CONTRACTOR.	PAPIER MACHÉ.
SIMPSON BROS. 166 Devonshire St. Boston, Mass.	BOSTON FIREPROOFING CO. 166 Devonshire St. Boston, Mass.	W. E. FLORENCE, 247 Pynchon St. Boston, Mass.	CONLAN & MAYBECK, 65 Wareham St. Boston, Mass.
BUILDING CONTRACTORS.	FURNACES.	IRON WORK. (Building)	PRINTING.
LITTLEFIELD BUILDING CO. Incorporated. Room 57, 166 Devonshire St. Boston, Mass.	CYRUS CARPENTER & CO. 44 Hanover St. Boston, Mass.	R. F. HAWKINS' IRON WORKS, Springfield, Mass.	S. J. PARKHILL & CO. 218-226 Franklin St. Boston, Mass.
CARVERS, MODELLERS.	GRANITE.	MANTELS. (Wood)	SASH CORD.
JOHN EVANS & CO. 77 Huntington Ave. Boston, Mass.	GRANITE RAILWAY CO. 166 Devonshire St. Boston, Mass.	J. W. BAILEY & SONS CO. 14 Charlestown St. Boston, Mass.	SILVER LAKE CO. 78 Chauncy St. Boston, Mass.
ELECTRIC WORK.	HEATING. (Air & Water)	MASON CONTRACTORS.	SLATE. (Roofing)
BLODGETT BROS. & CO. 383 Federal St. Boston.	MAGEE FURNACE CO. 30-8 Union St. Boston, Mass.	THOMAS J. LYONS, 166 Devonshire St. Boston, Mass.	H. H. MATHEWS, 178 Devonshire St. Boston, Mass.

Bricks and Terra-Cotta.

HYDRAULIC BRICK,
PLAIN & MOULDED
OF ANY COLOR.
RED, BUFF, GRAY, BROWN,
PINK, MOTTLED, GRANITE.

Total Annual Capacity, 100,000,000.

HYDRAULIC-PRESS BRICK CO.,
ODD FELLOWS' BUILDING,
ST. LOUIS, MO.

PERTH AMBOY
TERRA-COTTA COMPANY,

PERTH AMBOY, NEW JERSEY.

OFFICE, 289 Fourth Ave., NEW YORK.

PHILADELPHIA
OFFICE,
DREXEL BLDG.

BOSTON AGENTS,
WALDO BROS.,
88 Water Street.

TIFFANY PRESSED BRICK CO.,

Manufacturers of

Pressed and Enamelled Brick,

Plain and Ornamental,

403 Chamber of Commerce Bld'g,
CHICAGO.

"Architects" SPECIFY **LAFARGE'S CEMENT**

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,

Importer and Sole Agent,

81 and 83 Fulton St., N. Y.

The Temporary Binder

Provided by us will keep your copies of the *American Architect* in PERFECTLY uninjured condition.

Price \$1.25 postpaid.

GOETZ BOX ANCHOR

SELF RELEASING AND PREVENTS DRY ROT IN TIMBER.

GOETZ POST CAP

STRONGEST OF ALL AND YET SELF RELEASING.

GOETZ JOIST HANGER

WROUGHT IRON MACHINE MADE. STRONGEST AND CHEAPEST. BORE TWO HOLES. NO MORTISING.

GOETZ BOX ANCHOR CO.,
72 STATE ST. NEW ALBANY, IND.

SEND FOR CATALOGUE.

NEW YORK ARCHITECTURAL TERRA COTTA COMPANY.

OFFICE,
38 PARK ROW,
New York City.

WORKS,
LONG ISLAND CITY,
New York.

GENERAL AGENTS FOR NEW ENGLAND:

BOSTON FIRE BRICK COMPANY,
Fiske, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.

STEPHENS, ARMSTRONG & CONKLING,
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, - - - Philadelphia, Pa.

— INDIANAPOLIS — TERRA-COTTA CO.

Works: Brightwood, Ind.

ESTIMATES ON SPECIAL DESIGNS PROMPTLY FURNISHED. WRITE FOR CATALOGUE AND DISCOUNTS.

SEMI-GLAZE OR DEAD-FINISH. ALL COLORS.

**POMPEIIAN,
BUFF AND RED PRESSED,
ALSO ORNAMENTAL**

FACE BRICK MANUFACTURE.

CAPACITY, 100,000,000 PER ANNUM.

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

FRONT BRICKS — AND — TERRA-COTTA

— IN OVER TWENTY COLORS. —

Chimney Flue Linings, Chimney Tops, Drain Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,
86 WATER STREET. - - BOSTON.

THE Northwestern Terra-Cotta Co. Manufacturers of Architectural Terra-Cotta.

WORKS & MAIN OFFICE:
Cor. Olybourn & Wright-
wood Avenues.

CITY OFFICES:
Room 1118 Reekery Bldg.
cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for Catalogue and Samples.

BRICK OF ANY COLOR
AND
OF ALL SHAPES.

BRICK FIREPLACES.



NO. 3 SPANISH.

BALTIMORE ROOFING TILE CO.

BURNS, RUSSELL & CO., Proprietors,

535 Columbia Avenue, Baltimore, Md.,

MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other

styles of Clay Roofing Tiles in all colors,

glazed or unglazed.

CATALOGUE ON APPLICATION.



ROMAN

C. PARDEE WORKS, Perth Amboy, N. J.
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIREPROOF BUILDING MATERIALS, ETC.

Giant Metal Sash Chain.

MADE ONLY BY

THE SMITH & EGGE MANUFACTURING CO.,
BRIDGEPORT, CONN.

The most reliable and economical article in the market for the purpose. GREAT TENSILE STRENGTH. Does not corrode; does not lose its vitality by continuous use, or exposure to the elements; runs over any pulley, and gives satisfaction wherever it is used. Fixtures made of steel wire, is very simple and easily applied. Prices very low. Samples sent to any architect in the United States, free, on application. Now in use in State House, Hartford; Providence City Hall; Singer Building, Chicago; J. C. Flood's, Menlo Park, Cal.; Vancornlear and Florence Flints, New York; Boreel Building, New York; new State, War and Navy Departments, and Patent Office, Washington, D.C.; Herald Building, Boston, and very many other fine buildings in all parts of the United States.

DRAWING-OFFICE.

Drawings rendered in line or color with reasonable despatch.

ADDRESS THE EDITORS OF THE AMERICAN ARCHITECT.

Porcelain Bath Tubs

"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.

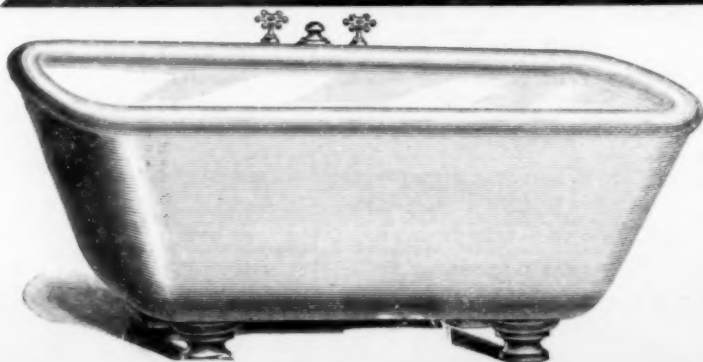
"SLUICE" Syphon Jet Water Closet.

MINTON'S TILES

For Bathrooms, Halls and Vestibules; Glazed, Unglazed and Enamelled.

MILLER & COATES, 279 PEARL STREET
NEW YORK.

260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.



THE ONLY MEDAL AND AWARD FOR SHINGLE STAINS

At the World's Columbian Exposition
HAS BEEN AWARDED TO
DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.

PEERLESS COLORS FOR MORTAR.

BLACK, RED, BROWN, BUFF. **NEW COLORS,** MOSS GREEN, ROYAL PURPLE, FRENCH GRAY, POMPEIIAN BUFF, COLONIAL DRAB.

THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.

ALSO

PLASTER ARCHITECTURAL ORNAMENTS FROM ORIGINAL AND SPECIAL DESIGNS.

SAMUEL H. FRENCH & CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.

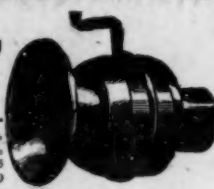
P. SEBIRE & SONS,
NURSERYMEN,
A GENERAL ASSORTMENT OF
FRUIT TREES, STOKES, MAHALED, CHERRY, SMALL EVERGREENS,
SUCH AS APPLE, PLUM, MAHALED, CHERRY, SMALL EVERGREENS,
MYROBOLAN, PLUM, MAHALED, CHERRY, SMALL EVERGREENS,
ANGERS QUINCE, FOREST TREES, ORNAMENTAL
SHRUBS, ROSES,
THE LARGEST STOCK OF THE COUNTRY, PRICES VERY LOW, PACKING SECURE, DELIVERY FREE.
C.C. ABEL & CO. P.O. Box 920, New York



W. R. OSTRANDER & CO.,
204 Fulton Street, New York.

Manufacturers of

Speaking-Tubes, Whistles, Oral, Electric, Mechanical and Pneumatic Annunciators & Bells, Complete outfits of Speaking-Tubes, Whistles, Electric, Mechanical, and Pneumatic Bells. A full line always in stock. Send for New Catalogue. Factory, De Kalb Ave. near Knickerbocker, Brooklyn, N. Y.



Architects, Builders, and others will confer a favor on the Publishers by mentioning "The American Architect and Building News" when sending for circulars or corresponding with parties advertising in these columns.

DIXON'S AMERICAN GRAPHITE PENCILS FOR DRAUGHTING.

By mentioning *American Architect and Building News*, and sending 16 cents in stamps, you will receive an assortment of draughting pencils worth double the money, and unequalled for smooth, tough and uniform leads.

JOSEPH DIXON CRUCIBLE CO. - JERSEY CITY, N. J.

PASSENGER AND FREIGHT ELEVATORS

Morse, Williams & Co., Electric and Hydraulic High Speed Passenger Elevators.

Steam, Belt and Hand Power Freight Elevators.
1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.
19 Pearl St., Boston. 82 Church St., New Haven.
714 Omaha Building, Chicago. 1116 E. St. N. W., Washington, D. C.

Decorative Glass and Sand Blast Work.

THE MATTHEWS DECORATIVE GLASS CO.
MANUFACTURERS OF
ORNAMENTAL GLASS in Sheets or from Special Design
By the SAND-BLAST and other Patented processes.
CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,
Gold and Silver Embossed, and Transparent Glass Signs. Marbleized Glass for Ceilings. Estimates promptly furnished on application.
328-330 E. 26th Street, New York City.

Classified Advertisements.

[Advertisers can be indexed only under a single head free of charge].

- | | | | |
|---|--|---|--|
| Annunciators.
W. R. Ostrander & Co., New York.....
Architects.
Bailey & Truett, Philadelphia, Pa.(mon)
F. E. Kidd & Co., Denver, Col.
Architect's Materials.
Frost & Adams, Boston.....(saw)
Architectural Iron Work.
Globe Iron Works, Chicago, Ill.....
Architectural Wood-Work.
Harian & Hollingsworth Co., Wilmington, Del.
Artificial Lumber.
A. A. Marks, New York.....
Art Metal Work.
Lindley & Co., New York, St. Louis, Mo.(mon)
Asbestos Felt & Boiler Coverings.
H. W. Johns Mfg. Co., New York.....
Asbestos Paint.
H. W. Johns Mfg. Co., New York.....
Asphalt.
Neuchatel Asphalt Co., New York.....
New York Asphalt Co., New York, N. Y.....
Asphalt Roofing.
Warren Chemical & Mfg. Co., New York.....
Bacon Cakes.
Stebbins Mfg. Co., Brighton, Mass.(saw)
Bath-Tub.
Miller & Co., New York.....
J. L. Mott Iron Works, New York.....
Bells.
Blake Bell Co., Boston, Mass.
U. S. Tubular Bell Co., New York.....
Blue Prints.
Spaulding & Moss, Boston, Mass.(saw)
Boilers.
Babcock & Wilcox Co., New York.....
Books and Journals.
Babcock & Wilcox Co., New York.....
Wm. T. Gamstock, New York.....
Calkner & Co., Boston.....
Box Anchors.
Goetz Anchor Box Co., New Albany, Ind.
Brick (Colored).
Jarden Brick Co., Philadelphia, Pa.
Brick (Enamelled and Pressed).
Tiffany Pressed Brick Co., Chicago, Ill.....
Brick (Ornamental).
Fleming Cement & Brick Co., New York.....(saw)
Hydraulic Press Brick Co., St. Louis.....
Walsh Bros., Boston.....
Brickwork.
M. J. Power, New York.....
Bronze and Brass Work.
Paul E. Cabaret, New York, N. Y.....
Building Brick.
Mayer & Gardner, Palmer, Mass.(saw)
Building Felt (Fire and Waterproof).
H. W. Johns Mfg. Co., New York.....
Carpets.
John H. Pray, Sons & Co., Boston.....
Ceilings (Metal).
Burger Mfg. Co., Canton, Ohio.....(saw)
H. S. Northrop, New York, N. Y.....
N. Y. Metal Ceiling Co., N. Y. City.....(saw)
Penn Iron Roofing & Corrugating Co. (Lm.)
Philadelphia, Pa.(mon)
Cements (Hydraulic).
F. O. Norton Cement Co., N. Y.....
Cement.
Allen's Cement Works, New York, N. Y.(saw)
Buckeye Portland Cement Co., Bellefonte, Ohio.....
James Brand, New York, N. Y.....
Brooks, Sheehy & Co., New York.....
Fleming Cement & Brick Co., New York.....(saw)
Johnsen & Wilson, New York.....
Lawrence Cement Co., New York, N. Y.....
S. Thiele, New York, N. Y.....
Chrome Steel Castings.
Chrome Steel Works, Brooklyn, N. Y.(saw) | Conductors (Water).
Lamb & Ritchie, Cambridgeport, Mass.
Conservatories.
Lord & Sarham Co.
Irvington-on-Hudson, N. Y.....
Consulting Engineer.
George Hill, New York, N. Y.....
Contracting.
Fryd Building & Construction Co., Palmer, Mass.
Corrugating.
Samson Corrugate Works, Boston.....(saw)
Correspondence School.
Federal of Mechanics and Industrial Sciences, Scranton, Pa.
Crescent Stairs.
S. Cabot, Boston, Mass.....
Coverings.
(Boiler & Pipe)
H. W. Johns Mfg. Co., New York, N. Y.....
Decorative Glass.
Metallic Setting Co., Providence and Boston.....
Decorators.
L. Habentröh & Son, Boston.....
F. B. Bailey, New York, N. Y.....
Door Hangers.
Lane Bros., Poughkeepsie, N. Y.....
Electric Pumps.
Goulds Mfg. Co., Seneca Falls, N. Y.....
Elevators, etc.
Elektron Mfg. Co., Springfield, Mass.
Grays Elevator Co., Rochester, N. Y.....
Moore & Wyman, Boston.....
Morse, Williams & Co., Philadelphia.....
Otis Brothers & Co., New York.....
Penn. Elevator Engineering Co., Philadelphia.....
Standard Elevator Co., Chicago, Ill.....
Whittier Machine Co., Boston.....
Fan (Ventilating).
Hayett & Smith Mfg. Co., Detroit, Mich.....
Fireproofing.
Pioneer Fireproof Construction Co., Chicago, Ill.
American Fireproofing Co., Boston, Mass.....
Fireproof Lathing.
Hayes Metallic Lathing, New York.....
Fireproof Material.
C. Pardee, North Amby, N. Y.....
Fire Pumps.
Goulds Mfg. Co., Seneca Falls, N. Y.....
Floors (Inlaid).
National Wood Mfg. Co., N. Y.....
Flush Tank.
J. Leland Fitzgerald, Schenectady, N. Y.....
Furniture (Spiral).
Chicago Interior Decorating Co., Chicago, Ill.....
Gases.
Wm. R. Pitt, New York, N. Y.(mon)
Glass (Stained and Ornamental).
Maitland Armstrong & Co., New York.....
Matthews Decorative Glass Co., New York.....(mon)
Mc'ully Glass Co., Chicago, Ill.....
Tiffany Glass & Decorating Co., New York.....
Groceries, etc.
E. A. Jackson & Bro., New York, N. Y.....
Wm. H. Jackson & Co., New York.....
Greenhouses.
Burditt & Williams, Boston, Mass.....
Hardware.
(Art)
Vale & Towns Mfg. Co., Stamford, Ct.
Hardware.
(Builders)
Burditt & Williams, Boston, Mass.....
Heaters (Steam and Hot Water).
George H. Bell & Co., New York.....
Heating and Ventilating.
Perry N. Kewsey, Boston, Mass.....
Smith & Anthony Store Co., Boston.....
Heating-Apparatus (Hot Water).
Gurney Heater Mfg. Co., Boston.....(mon)
W. H. Mfg. Co., Chicago.....
Heating-Apparatus (Steam).
American Boiler Co., Boston, Mass..... | Heating Apparatus (Steam).
Gorton & Langerwood Co., New York.....(saw)
H. Smith Co., New York.....
Heliotype Process.
Heliotype Printing Co., Boston.....
Hot-Blast Apparatus.
Hayett & Smith Mfg. Co., Detroit, Mich.....
Insurance.
Continental Insurance Co., N. Y.(saw)
Interior Decorations.
Chicago Interior Decorating Co., Chicago, Ill.
Iron-Work (Architectural)
Belmont Iron Works, Philadelphia, Pa.(saw)
Jackson Architectural Iron Works, N. Y.....
Pascale Rolling Mill Co., Paterson, N. J.....
Phoenix Iron Co., Philadelphia.....
Iron (Galvanized).
Apollo Iron & Steel Co., Pittsburgh, Pa.....
Laundry Machinery.
Iron Laundry Machinery Co., Troy.....
Mail Chutes.
Cutler Manufacturing Co., Rochester, N. Y.....
Marble Mosaic.
Leachman & Talcott, New York.....
Marble-Workers.
Harrison, See & Eselle, New York.....
Robert C. Fisher & Co., New York.....
Metal Lathing.
Cincinnati Corrugating Co., Piqua, Ohio.....
G. Hayes, New York.....
Metal Work (Wrought).
Paul E. Cabaret, New York.....
John Williams, New York.....
Mineral Wool.
American Mineral Wool Co., New York.....
Mortar Colors.
Samuel H. French & Co., Philadelphia.....
Mosaic (Carved).
Chicago Interior Decorating Co., Chicago, Ill.
Nurserymen.
C. C. Abel & Co., New York.....(saw)
Organ Builders.
Parsons & Volney Organ Co., New York.....(mon)
Paint.
F. W. Devos & Co., New York.....(saw)
Joseph Dixon Crucible Co., Jersey City, N. J.....
H. W. Johns Mfg. Co., New York.....
Patent Lawyers.
Howson & Howson, Philadelphia.....(saw)
Photographs.
J. W. Taylor, Chicago, Ill.....
Pumpers.
T. H. Duggan, Boston.....
Pumps (Steam).
H. B. Werthington, New York and Boston.....
Refrigerators.
P. P. Frank, New York.....
Refrigerators.
McCray Refrigerator and Cold Storage Co.,
Kendallville, Ind.
Wheeler Refrigerator Co., New York, N. Y.....
Rolling-Shutter.
J. C. Wilson, New York.....
Roofers.
John Farquhar's Sons, Boston.....
James A. Miller & Bro., Chicago, Ill.....
Roofing Materials.
Thomas J. Hind, Boston.....
Merchant & Co., Philadelphia, Pa.(saw)
N. & G. Taylor Co., Philadelphia, Pa.(saw)
R. & F. Hooding Works, Boston.....
Thorn Shingle and Ornament Co., Phila., Pa.
Roofing Tiles.
Baltimore Roofing Tile Co., Baltimore, Md..... | Sanitary Supplies.
Haines, Jones & Cadbury Co., Philadelphia, Pa.
Smith & Anthony Co., Boston.....
Sash-Chains.
Smith & Esge Mfg. Co., Bridgeport, Conn.....
Sash-Cord.
Samson Cordage Works, Boston.....(saw)
School of Architecture.
C. Powell Karr, New York, N. Y.(saw)
Seamless Drawn Copper Range.
Randolph & Clowes, Waterbury, Conn.....
Sheet-Metal Work.
J. S. Thorn, Philadelphia.....(saw)
Shingle-Stains.
S. Cabot, Boston.....
Dexter Bros., Boston.....
Shutters.
Clark, Bunnet & Co., New York.....
Sidewalk Lights.
T. H. Brooks & Co., Cleveland, Ohio.....(mon)
Sinks.
Kilbourne & Jacobs Mfg. Co., Columbus, O.....
Skylights, etc.
G. Brinkhous, New York.....
Paradigm Construction Co., New York.....
Vale & Young, Baltimore, Md.....
Slate.
Brownville Maine Slate Co., Worcester, Mass.....
Snow Guard.
Clemens Snow Guard Co., Boston.....(mon)
Steam Pipe Covering.
Kenney & Mattison Co., Ambler, Pa.....
Steel Lath.
Central Expanded Metal Co.,
Pittsburgh, Pa.(saw)
Stone (Building).
J. F. Felt & Co., Springfield, Mass.....
Terra-Cotta.
Flake, Homes & Co., Boston.....
Indianapolis Terra-Cotta Co., Brighton, Ind.
New York Architectural Terra-Cotta Co., N. Y.
Perth Amboy Terra-Cotta Co., N. Y.
The Northwestern Terra-Cotta Co., Chicago, Ill.
Traps.
F. E. Cudell, Cleveland, O.....(saw)
Valves and Packing.
Jenkins Bros., New York.....
Varnish.
Murphy & Co., Newark, N. J.....
Vault Lights.
Dausky & Co., Chicago.....
Vault Threshold.
G. S. Clark, Philadelphia, Pa.(quar.)
Ventilation.
Globe Ventilating Co., Troy, N. Y.....
Wall Tie.
H. B. Prescott & Son, Webster, Mass.....(saw)
Wash Tubs.
National Lead Co., New York.....(saw)
Water-Closet.
Fred Adee & Co., New York, N. Y.(saw)
Water Lifters.
Globe Wire Cloth Co., Chatham, Mass.....
New Jersey Wire Cloth Co., Trenton, N. J.....
Weather Vanes.
J. W. Jones, New York, N. Y.....
White Lead.
National Lead Co., New York, N. Y.....
Window-Line.
Samson Cordage Works, Boston.....(saw)
Wire Lathing, etc.
Clinton Wire Cloth Co., Chatham, Mass.....
New Jersey Wire Cloth Co., Trenton, N. J.....
Wood Carpet.
E. S. Moore & Co., Chicago, Ill.....(saw)
Wood Filler.
Bridgeport Wood Finishing Co., New Milford, Conn..... |
|---|--|---|--|

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th St.
NEW YORK CITY.

Designers and Manufacturers of...

MANTELS
OPEN FIREPLACES ..
GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 65 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.

PRIZE MEDALLISTS.

EXHIBITION OF 1862, 1866, 1867, 1872, 1873, AND ONLY AWARD AND MEDAL FOR NOISELESS, SELF-COLLING STEEL SHUTTERS AT PHILADELPHIA, 1876; PARIS, 1878; AND MELBOURNE, 1881.

CLARK, BUNNETT & CO, (Limited)

Late CLARK & COMPANY,

ORIGINAL INVENTORS AND SOLE PATENTERS OF NOISELESS

Self-Colling, Revolving **STEEL SHUTTERS** Fire & Burglar Proof.

Also Improved Rolling Wood Shutters, and Clark's Patent Metallic Venetian Blinds.

The BEST in the Market. Send for Catalogues, etc., to

162 and 164 West 27th St. - - New York.

ALSEN'S

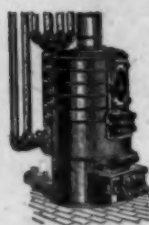
PORTLAND CEMENT

(GERMAN.)

The Strongest, Finest Ground and Most Uniform Cement Made in the World.

The Largest Works and Greatest Production.

U. S. OFFICE, 143 Liberty Street, NEW YORK.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

We invite Correspondence.
Send for Catalogues.

HEAD OFFICE: **Gurney Heater Mfg. Co.** 163 Franklin St., Cor. Congress, Boston, Mass.

JOHNSON & CO., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHSEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

Endorsed by the leading Architects and Engineers.



JAS. G. WILSON, Patentee and Manufacturer,
74 West 23d St., New York.



NJ. STEEL & IRON CO.,
TRENTON, N.J.

IRON AND STEEL BEAMS

CHANNELS, ANGLES & TEES

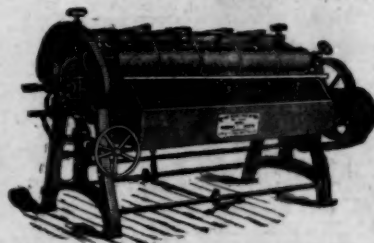
COOPER, HEWITT & CO.
NEW YORK

TROY LAUNDRY MACHINERY CO.

[LIMITED.]

FACTORIES: 648-650 Fulton St., Troy, N. Y.
296-406 Fifth Ave., Chicago, Ill.

SALESROOMS: 15 Warren St., New York.
581-583 Mission St., San Francisco, Cal.



Our line the largest and most complete in the world.

Send for Illustrated Catalogue Z.



80-Paged Illustrated Catalogue of over 350 Designs of Superior

**WEATHER VANES,
TOWER ORNAMENTS,
CHURCH CROSSES,
FINIALS, Etc., Etc.**

Mailed to any address for 2-cent stamp—half the postage.

T. W. JONES, Manufacturer,
178-173 FRONT ST., New York.

CONTINENTAL INSURANCE COMPANY,
OF NEW YORK CITY.

Entered from statement made Jan. 1, 1904.

CASH CAPITAL	\$1,000,000.00
RESERVES for insurance in force, etc.	3,856,575.95
NET SURPLUS	1,576,596.38
POLICY HOLDERS' SURPLUS	2,576,596.38
GROSS ASSETS	6,433,171.33

SAFETY FUND POLICIES ISSUED.
F. C. MOORE, President, HENRY EVANS, Vice-President.
EDWARD LANNING, Secretary, CYRUS PECK, Treasurer.
WM. A. HOLMAN, Asst. Sec. R. J. TAYLOR, Man'g'r Loss Dept.
46 Cedar Street, New York.

C. H. DUTCHER, Secretary Brooklyn Dept., Court and Montague Sts., Brooklyn, N.Y.; J. J. McDONALD, Gen'l Manager Western Dept.; GEO. E. KLINE, Asst. to Gen'l Manager, Rialto Building, Chicago, Ill.; W. S. DUVAL, Gen'l Manager Pacific Coast Dept.; F. O. BAREMAN, Asst. to Gen'l Manager, 221 Pine St., San Francisco, Cal.

RESPONSIBLE AGENTS WANTED.



"THE WORLD'S FAIR EXTRA"
OF THE AMERICAN ARCHITECT.

Contains twenty gilding prints of some of the Exhibition buildings and their details, already published in the International Edition. Five of these prints are double-page plates, the others being single-page.

For sale at this office. Price, \$3.50.

This "World's Fair Extra" will be sent free to new subscribers to the International Edition of the American Architect for 1894.

211 TREMONT ST., BOSTON.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen'l Agts.,
Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Masons' Materials.

Send for Pamphlet.

THE AMERICAN ARCHITECT

AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. XLV.—No. 974.]

SATURDAY, AUGUST 25, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS.
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Ricker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE.
Louis De Coppet Berg.
PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.
COOPER INSTITUTE.
E. A. Miller.
E. F. Maurer.
INSTITUTE OF ARTIST-ARTISANS.
140 West 23d Street.
John Ward Stimson.
METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.
S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Truscott.
UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

[Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.]

CONSTRUCTION.

BERG, LOUIS D'C. Two Vols., each \$5.00
"Safe Building."
New York (66 Fifth Ave.): Macmillan & Co.
CHANDLER, F. W. \$10.00
"Construction Details."
Boston (211 Tremont St.): Heliotype Printing Co.
CLARK, T. M. \$3.00
"Building Superintendence." Out.
New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts. \$2.00 each.
Architectural Rendering in Pen and Ink.
Boston (211 Tremont St.).
WARE, WILLIAM R., PROFESSOR, \$5.00
"Modern Perspective."
New York (66 Fifth Ave.): Macmillan & Co.

STYLES.

GOTCH, J. A., and W. T. BROWN 6 Parts, \$48.00
Four Parts now ready
"Architecture of the Renaissance in England."
New York (743 Broadway) Charles Scribner's Sons.

WHITTIER MACHINE CO.,

ELEVATORS,

53 STATE STREET - - BOSTON.
93 LIBERTY STREET, NEW YORK.
526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD
For all kinds of
PASSENGER AND FREIGHT ELEVATOR SERVICE.
OTIS BROTHERS & CO.,
NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,
ELEVATOR AND MACHINE WORKS,
COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.
STEAM AND HYDRAULIC,
For Freight and Passenger use.

ELECTRIC ELEVATORS. THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,
For passenger and freight service.
Large experience. Many in use.
First cost moderate.
Running Expense much less than Hydraulic.
Also makers of low-speed Perret Electric Motors and Dynamos.
General office and factory, Springfield, Mass.
NEW YORK OFFICE, 126 Liberty Street.
BOSTON OFFICE, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES.
For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate. References, Principal Architects and Decorators of New York.
AESCHLIMANN & PELLARIN,
37 CLINTON PLACE,
Between Broadway and University Place, New York.

SANITARY CONDITION OF DWELLINGS examined by T. H. DUGGAN, Plumber, 141 DARTMOUTH STREET, BOSTON.
Fine Plumbing Materials, First-class Workmanship.
Telephone call, Tremont No. 165.

*TIFFANY GLASS & DECORATING COMPANY.

*FURNISHERS OF GLASS WORKERS DOMESTIC & ECCLESIASTICAL DECORATIONS.  MEMORIALS.
333 TO 341 FORTH AVENUE NEW YORK.

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHERE & Co.),
Importers and Workers of
MARBLE, ONYX AND GRANITE,
425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

ALWAYS THE SAME.

The F. O. Norton Cement commands every architect's confidence.
OFFICE, 92 BROADWAY, NEW YORK.

STANDARD ELEVATOR CO.,

HIGHEST GRADE

PASSENGER }
AND } ELEVATORS.
FREIGHT }

OFFICE AND WORKS,

15th Street and Ashland Ave.,
Chicago, Ill.

PENN ELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.
PASSENGER AND FREIGHT ELEVATORS,
every description.
See our new Electric and Hydraulic before purchasing.
Works, Bloomsburgh, Pa.
Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.
GENERAL OFFICE, PALMER, MASS.
We contract to perform all labor and furnish all material of the different classes required to build complete CHURCHES, HOTELS, MILLS, PUBLIC BUILDINGS AND RESIDENCES.
Also for the construction of RAILROADS, DAMS AND BRIDGES.
We solicit correspondence with those wishing to place the construction of any proposed new work under ONE CONTRACT, which shall include all branches connected with the work. To such parties we will furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO.,

STAINED GLASS & DECORATIVE WORK.
Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.
Sole Agents for
CLAYTON & BELL, GLASS STAINERS, LONDON.
61 Washington Square, South, New York, N. Y.

ROBERT C. FISHER & CO.,

Successors to FISHER & BIRD,
MARBLE AND GRANITE WORKS,
97, 99, 101 and 103 EAST HOUSTON STREET,
Established 1830. NEW YORK

DON'T be misled by high-sounding or attractive names given so-called mixed or paste paints, for in many instances they are their chief merit. Their composition is unknown; some of them have little value, others are worthless: but specify what time and experience have shown makes the best paint,

Strictly Pure White Lead

The

"ANCHOR" (Cincinnati).

"ARMSTRONG & McKELVY" (Pittsburgh).

"ATLANTIC" (New York).

"BEYMER-BAUMAN" (Pittsburgh).

"BRADLEY" (New York).

"BROOKLYN" (New York).

"COLLIER" (St. Louis).

"CORNELL" (Buffalo).

"DAVIS-CHAMBERS" (Pittsburgh).

"ECKSTEIN" (Cincinnati).

"FAHNESTOCK" (Pittsburgh).

"JEWETT" (New York).

"KENTUCKY" (Louisville).

"JOHN T. LEWIS & BROS. CO." (Phila.).

"MORLEY" (Cleveland).

"MISSOURI" (St. Louis).

"RED SEAL" (St. Louis).

"SALEM" (Salem, Mass.).

"SHIPMAN" (Chicago).

"SOUTHERN" (St. Louis and Chicago).

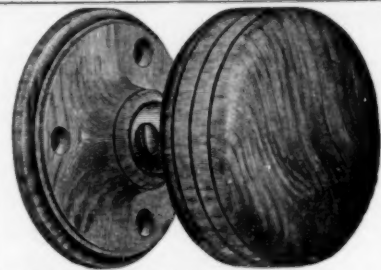
"ULSTER" (New York).

"UNION" (New York).

brands are genuine and always reliable. If any shade of color is desired, it can be easily made with White Lead by using the National Lead Co.'s Tinting Colors, prepared expressly for this purpose.

Send your address, and we will mail a book on paints and sample-card to you free.

NATIONAL LEAD CO., New York.



WOOD DOOR KNOBS,

DOOR SPRINGS AND CHECKS,
and CHECKING SPRING HINGES.

NEW GOODS. — NEW PRICES.
Send for new Price List.

J. BARDSLEY,

149 and 151 Baxter Street, NEW YORK



Unequaled for all purposes
for which Portland Cement
is used. Tests and Testimo-
nials of Engineers, and "How
to Use Portland Cement,"
sent free on application.

BUCKEYE PORTLAND CEMENT CO.,
BELLEFONTAINE, OHIO



Best Conductor of all. RITCHIE'S Corrugated Expanding Conductor.

Guaranteed no Infringement.

This pipe has all the advantages
of other corrugated conductors in
not bursting from freezing, and in
addition:

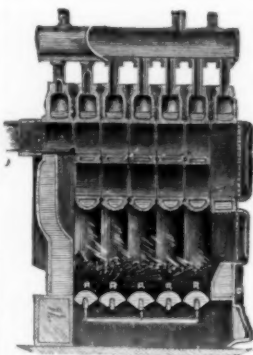
It has no soldered joints.

The enlarged coupling makes
the conductor of even size inside
throughout.

It is galvanized, after formation,
great care being taken to secure
a smooth coating of zinc free
from dross and impurities.

MANUFACTURED BY

LAMB & RITCHIE,
Easton Spiral Tube Works,
CAMBRIDGEPORT, MASS



Mercer Boiler.

The H. B. SMITH CO., MANUFACTURERS OF HEATING APPARATUS Steam and Water

For Public Buildings and Private Residences.

SPECIALTIES:

MERCER'S Patent Improved Sectional Boilers.

MILLS'S Safety Sectional Boilers.

GOLD'S Improved Sectional Boilers.

REED'S Improved Cast-Iron Radiators.

"THE UNION" Hot-Water Radiators.

BRECKENRIDGE'S Patent Automatic Air Valves.

GOLD'S Indirect Pin Radiators.

Office & Warerooms, 137 Center Street, New York.

Foundry, Westfield, Mass. Catalogues sent on application.



HEATING.

STEAM AND HOT WATER.

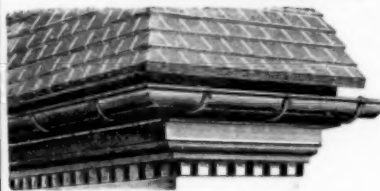
The Architect, Steam Fitter, Plumber, and the General Public
give our line of Heaters Preference on account of being
Simple in Construction, Economical in Operation,
Powerful and Rapid in performing
their work.

Write for Descriptive Catalogue.

American Boiler Company

BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
195 Ft. Hill St. 94 Center St. 84 Lake St. 127 6th St.

NOTICE TO ARCHITECTS.



This cut shows the additional width, strength
and beauty of an eave finished with a hanging,
expanding Gutter hung with

"Berger's Favorite Hangers,"

now superseding every other device.

BERGER BROS.,

237 Arch Street, - PHILADELPHIA.

GRAVES ELEVATORS

SAFETY, SPEED AND
ECONOMY COMBINED

NEW YORK
92 & 94 LIBERTY ST.
BOSTON
5 STATE ST.
DETROIT
HODGES BUILDING
ATLANTA, GA.
INMAN BUILDING.
ROCHESTER, N.Y.
SEND FOR CATALOGUE.

PORCELAIN LINED REFRIGERATORS

and Cooling Rooms under the
Wickes System.

Mechanical Refrigeration under
the Westinghouse System.

WICKES REFRIGERATOR COMPANY,
860 Broadway, N. Y.

STEEL TAPES

And Supplies for Architects,
Engineers, and
Draughtsmen.

FROST & ADAMS,

37 Cornhill,
Boston, Mass.

Send for Our New Catalogue.



METAL CEILINGS

WRITE CATALOGUE
FOR PRICES.

BERGER MFG CO. CANTON, OHIO.

ASPHALT ROOFING "ANCHOR BRAND" FLOORS.

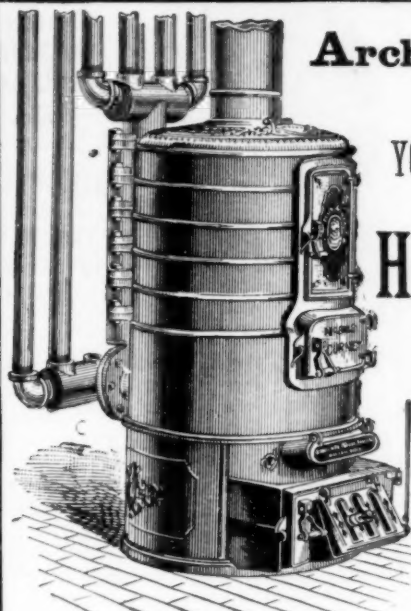
SLATE, COPPER, TIN AND GRAVEL ROOFING.

Box at Master Builders Association

THOMAS J. HIND,

101 MILK ST.,
BOSTON.

Prompt attention given to
Repairs of all kinds.



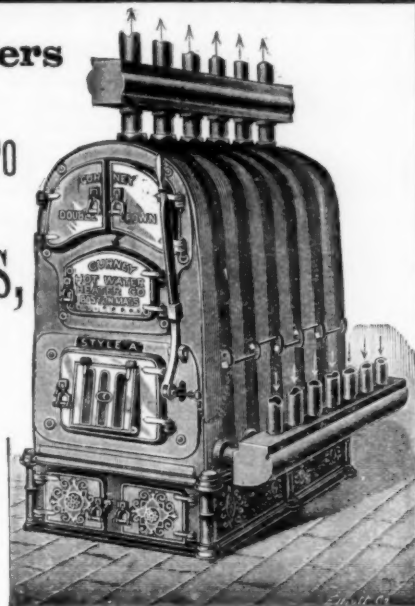
GURNEY Hot-Water Heater.
300 SERIES.
For Hard or Soft Coal. Capacities 275 to 1,850 sq. ft.

FOR WARMING RESIDENCES AND MEDIUM-SIZED BUILDINGS BY HOT-WATER CIRCULATION,
They are Unequalled.

Architects and Builders
WE INVITE
YOUR SPECIAL ATTENTION TO
Our Extensive Lines of
Hot-Water Heaters,
STEAM BOILERS
AND
RADIATORS.



"YALE" QUINTET,
FOR HOT WATER OR STEAM.
Efficient, Artistic and Well Constructed.



Double Crown Hot-Water Heater.
Made in 3 Sizes, A, B or C. Capacities, 750 to 6,000 sq. ft.

CONSTRUCTED ON MOST APPROVED SCIENTIFIC PRINCIPLES OF CIRCULATION AND ECONOMY.

Especially adapted to large Buildings where great power with economy are desired.



"DEFIANCE" Hot-Water Heater.
Capacity, 130 and 200 sq. ft.

FOR WARMING SMALL BUILDINGS, OFFICES, ETC., BY HOT-WATER CIRCULATION, and also used in Coach-Houses, Laundries, Bath, etc., for furnishing hot water.

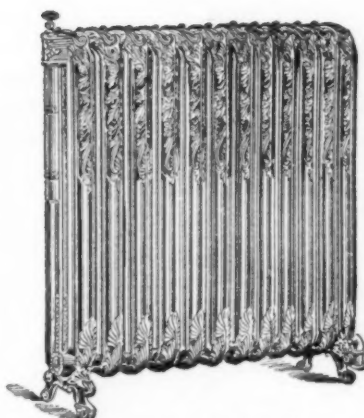
GURNEY STEAM BOILER
ENTIRELY NEW.

Maintains Steady Water Line.
Will not Foam.
Suited to all Classes of Buildings.



PERSPECTIVE VIEW.

Gurney



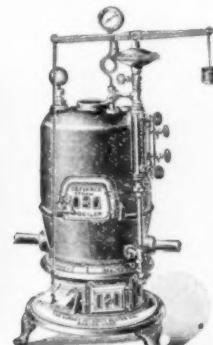
"GURNEY" RADIATOR, FOR HOT WATER.

SEND FOR LATEST CATALOGUES.

GURNEY HEATER MFG. CO.
163 Franklin St., cor. Congress,
Boston, Mass.

SELLING AGENCIES:

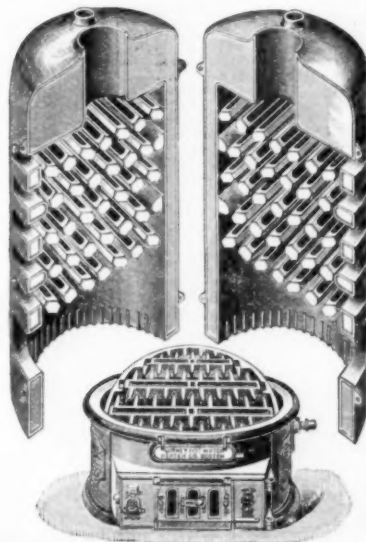
JOHNSON & CO., 71 John St., New York City and Vicinity.
J. C. F. TRACHSEL, 246 Arch St., Philadelphia and Vicinity.
A. A. GRIFFING IRON CO., 34 Dearborn St., Chicago and Western States.



DEFIANCE STEAM BOILER.
Capacities, 125 and 175 sq. ft.
For Warming Small Buildings, Offices, etc., by Steam.

GURNEY STEAM BOILER
ENTIRELY NEW.

CONTAINS MOST EFFECTIVE HEATING SURFACE.
Simple in Construction and Erecting.
Can be Easily and Thoroughly Cleaned.



SECTIONAL VIEW.

CLINTON WIRE-CLOTH CO.,

Sole Proprietors and Manufacturers of

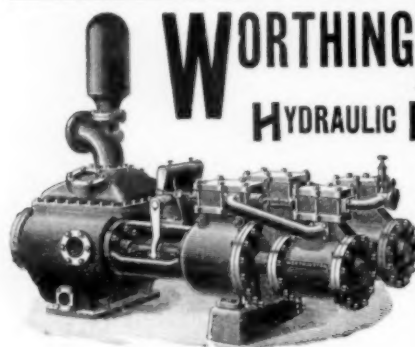
WIRE LATH DOUBLE TWIST WARP STIFFENED (Iron furred) CLINTON CORRUGAT'D

Plain, Japanned or Galvanized.

The Most Perfect and Economic System of FIREPROOF Construction.

SEND FOR CIRCULAR.

BOSTON, NEW YORK, CHICAGO, FACTORY,
199 Washington St. 76 Beekman St. 137 Lake St. CLINTON, MASS.



WORTHINGTON STEAM PUMPS

ARE THE STANDARD FOR
HYDRAULIC ELEVATOR AND HOUSE SERVICE.

Send for New Illustrated Catalogue.

Henry R. Worthington,
NEW YORK, 86 & 88 Liberty St.
BOSTON, 70 Kilby St.
PHILADELPHIA, 607 Arch St.
CLEVELAND, 24 South Water St.
CHICAGO, 185 to 189 Van Buren St.
ST. LOUIS, Eighth & St. Charles Sts.



**A BOON TO ARCHITECTS AND BUILDERS.
THE MORSE PATENT WALL TIE.**

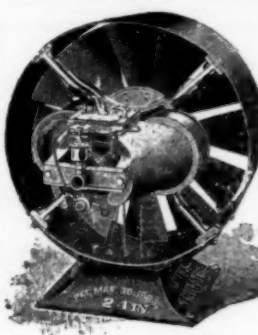
Made from 3-16 in. galvanized steel wire; thickness where ends cross 1-4 in.
Secures Hollow Walls, Brick Facings, Terra Cotta, Etc.
Also made from 5-32 and 1-8 wire.

CHEAP, STRONG, RELIABLE.
Adopted by more than 400 Architects and Builders the past three seasons.
Write for samples, circulars, etc.

J. B. PRESCOTT & SON, Sole Mfrs., Webster, Mass.

New York Office,
62 Reade St.

BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
BRICK.—P. M.				
Common: Cargo afloat.				
Pale.....	1 50 @ 1 75			
Jersey.....	3 75 @ 4 25			
Long Island.....	3 75 @ 4 50			
Up River.....	4 00 @ 4 25			
Haverstraw Bay 2d.....	4 50 @ 5 25			
" 1st.....	5 00 @ 5 50			
Hollow.....	13 00 @			
Fronts:				
Croton, Brown.....	9 00 @ 12 00			
" dark.....	10 00 @ 13 00			
" red.....	10 00 @ 13 00			
Chicago pressed (Anderson).....				
" Moulded.....				
Baltimore.....	37 00 @ 41 00			
Philadelphia.....	22 00 @ 23 00			
Trenton.....	19 00 @			
Milwaukee.....				
Moulded:				
Glens Falls Red Pressed.....	37 00 @			
" Buff.....	30 00 @			
" Moulded Red & Buff.....	45 00 @ 70 00			
Enamelled: Imp.				
Enamelled (edge).....	85 00 @ 100 00			
Enamelled (edge and end).....	90 00 @ 115 00			
CEMENT, LIME, etc.—(P. cash.)				
Rosendale Cement.....	80 @ 90			
Louisville.....				
Utica, Akron, Buffalo, Milw'kee.	Not sold.			
Portland, English (Gibbs).....	2 25 @ 2 50			
" (K. B. & S.).....	2 50 @ 3 00			
" " Black Cross.....	2 25 @ 2 50			
" " (Burnham).....	2 50 @ 2 50			
" " (White's).....	2 65 @ 3 00			
" French (LaFarge).....	3 60 @ 3 75			
" German (Alsen).....	2 90 @ 3 25			
" (Fower).....	2 25 @ 2 40			
" (Vorwöhler).....	2 50 @ 2 90			
" (Lagerdofer).....	2 60 @ 2 90			
" (Dyckerhoff).....	2 50 @ 3 00			
" (Hanover).....	2 35 @ 2 85			
" Stettin (Anchor).....	2 15 @ 2 25			
" American (Saylor's).....	2 75 @ 3 00			
Roman.....	4 50 @ 5 30			
Keene's coarse.....	5 00 @ 5 50			
" superfine.....				
Lime:				
Lime of Tell.....	3 50 @ 4 00			
Hydraulic Lime.....	1 45 @			
Chicago Lime in bulk.....	St. John 85			
Wisconsin Lime.....	1 00 @			
Rockland and Rockport, (Com.).....	1 00 @			
Rockland and Rockport, finish.....	1 00 @			
Kelley Island Lime, finish.....	80 @			
State, com. cargo rates (nom.).....	1 05 @ 1 10			
State, finishing.....	1 40 @ 1 50			
Plaster of Paris (calcined).....	1 00 @ 1 10			
" (casting).....	18 @ 21			
Hair (Cattle) P. bush.....	21 @ 25			
" (Goat).....	1 00 @ 1 25			
Sand, P. load.....				
STONE.—(P. cubic foot, rough.)				
Granite: (Maine)				
Limestone:				
Bedford.....	45 @ 1 25			
Joliet.....	1 00 @			
Lemont.....				
Serpentine.....				



KEEP COOL
BY USING
THE SMITH
VENTILATING
FAN.

KEEP WARM
BY USING
THE SMITH
HOT BLAST
APPARATUS.

Both Manufactured by
THE HUYETT & SMITH MFG. COMPANY,
Heating and Ventilating Engineers,
DETROIT, MICH.

Write for Catalogue, mentioning this paper.

McCRAY REFRIGERATOR AND COLD STORAGE CO.,

Cooling Rooms for public Institutions, Hotels,
Fine Residences, Groceries, and
Meat Markets.

KENDALLVILLE, IND.

CATALOGUE FOR 1894 OF Architectural Books.

SEND FOR CLEARANCE CIRCULAR.

WM. T. COMSTOCK, Pub., 23 Warren St., N. Y.



NEW ENGLAND
FELT ROOFING
WORKS.

22 MILK ST., BOSTON.

Originators of Felt Roofing in New England.
Inventors and only Manufacturers of the Celebrated
"BEEHIVE BRAND."

LEVI L. WILLIAMS, Pres't
EPH. C. DAVIS, Treas'r

BURDITT & WILLIAMS,
Representatives of Leading Manufacturers of
BUILDERS' HARDWARE.

Refer to the prominent Architects of Boston,
New York and Washington, as well as to many
of the finest Public Buildings and Residences
in all parts of the United States.

Branch Office, **20 Dock Square,**
WASHINGTON, D. C.
BOSTON, MASS.

Heliotype Printing Co.,

211 Tremont Street, Boston.

ESTABLISHED 1872.

- **PHOTO-LITHOGRAPH.**
- **PHOTO-COLOR-LITHOGRAPH.**
- **PHOTO-GELATINE.**
- **PHOTO-GRAVURE.**
- **PHOTO-ENGRAVING.**

COPIES OF ARCHITECTURAL,
MECHANICAL AND OTHER
DRAWINGS, MAPS, PLANS, ETC.,
PORTRAITS, VIEWS AND ALL
BOOK ILLUSTRATIONS.

Heliotype Printing Co.

CABOT'S

CREOSOTE

SHINGLE

STAINS

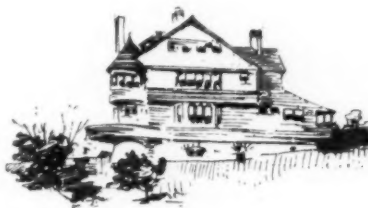


Don't specify paint for shingles; it isn't artistic. Don't specify a Stain that will turn black in a few years, because it looks dirty and you have to paint it over to change the color. Specify a stain that will hold its color and grow old gracefully—like Cabot's, which was the first shingle stain ever made, and is now, as always, first in durability, first in economy, and first in favor with those who have used it. *Every gallon guaranteed.*

Loring & Phipps Arch'ts Boston



SUMMER COTTAGE
THOMAS J. LADD
DESIGNED BY J. P. FARRINGTON



Large or small wood samples, circulars and water-color reproductions of color schemes, sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

Agents at all Central Points. 70 Kilby St., BOSTON, MASS.



Tree-house, Korari Village.



Haida Indian Totem-poles.



Papuan Chief's House.

ABORIGINAL ARCHITECTURE.

OKONITE INSULATED ELECTRIC LIGHT WIRES.

TRADE MARK
WILLARD L. CANDEE,
H. DURANT CHEEVER, } Managers.
GEO. T. MANSON, Gen'l Supt.
W. H. HODGINS, Sec'y.

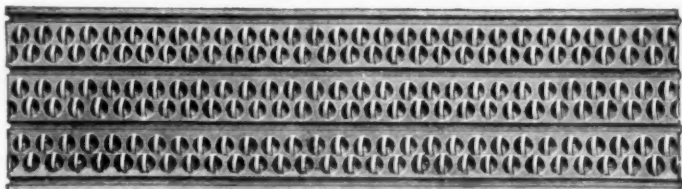
The Okonite Wire is pronounced by Architects to be a **SAFE, DURABLE** and **EASILY ADJUSTED WIRE**, for the **INSIDE WIRING** of **PUBLIC** and **PRIVATE BUILDINGS**.

AWARDED A GOLD MEDAL AT THE PARIS EXPOSITION.

BRANCHES: Boston, Philadelphia, Chicago, Omaha, Cincinnati, Minneapolis, San Francisco, Louisville, St. Louis, Kansas City, South America, London.

THE OKONITE COMPANY, L'TD,
13 Park Row, New York.

Send for Catalogue and Prices.

**"Piqua" Steel Lath.**

"Piqua" Lath is made from the best quality of steel, in sheets $27\frac{1}{4} \times 48$ inches, and each sheet covers exactly one square yard of surface. The corrugations shown in cut are $3\frac{1}{4}$ inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.

**Steel Plastering Lath.**

Superior to wood or any other lathing material. Strength, durability and economy secured at once. The fire risk reduced to a minimum. Made of

Expanded Metal

No contraction or expansion, consequently no cracks or falling plaster. Easily applied without stretching or furring, making perfect key and solid work. Write for illustrated Catalogue No. 25, containing valuable facts about the various uses of expanded metal.

CENTRAL EXPANDED METAL CO
531 WOOD STREET, PITTSBURG, PA.

**L. HABERSTROHM AND SON:****INTERIOR DECORATORS AND PAINTERS**

9 Park St. Cor. Beacon

Boston Mass.

Tapestry-Leather
Mosaic Effects

Artistic Relief
Processes

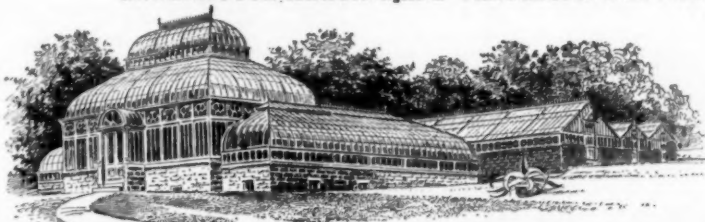
Established in 1848

HITCHINGS & CO., Established 50 years.

HORTICULTURAL ARCHITECTS AND BUILDERS

and largest Manufacturers of

GREENHOUSE HEATING AND VENTILATING APPARATUS.



Conservatories, Greenhouses, Palm Houses, etc., erected complete with our patent Iron Frame Construction. Plans and Estimates of cost and illustrated catalogues sent on application.

233 MERCER STREET, N. Y.

**NATIONAL****Fine Art Foundry,**

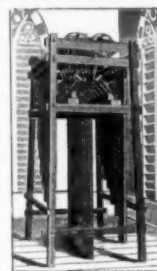
218 East 25th Street, New York.

Artists' Models cast in Standard Bronze

Architects' Designs Executed.
Artistic and Enduring Monuments
in Granite and Bronze.

No Catalogues.

MAURICE J. POWER.

**TUBULAR CHIME BELLS**

Harrington Patents.

Established in England.
Introduced here:

Lighter in Weight }
Sweeter in Tone }
Cheaper in Price }
Than the ordinary bell

Catalogue with full description.
U. S. Tubular Bell Co., Methuen, Mass.

MARKS' ARTIFICIAL LIMBS.

WITH RUBBER HANDS AND FEET.

The most comfortable, durable and natural.



Although a man may lose both of his legs he is not necessarily helpless. By having artificial legs applied, with rubber feet attached, he can be restored to his usefulness.

The engraving is from an instantaneous photograph of a man ascending a ladder; he has two artificial legs substituting his natural ones, which were crushed by a railroad accident and amputated. With his rubber feet he can ascend or descend a ladder, balance himself on the rungs, and have his hands at liberty. He can work at a bench and earn a good days wages. He can walk and mingle with persons without betraying his loss; in fact, he is restored to his former self for all practical purposes.

With the old method of complicated ankle-joints these results could not be so thoroughly attained.

Fifteen thousand in use, scattered in all parts of the world. Many of these have been supplied without presenting themselves to the maker, simply by sending measurements on a formula which any one can easily fill out.

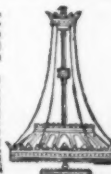
RECEIVED THE HIGHEST AWARD AT WORLD'S COLUMBIAN EXPOSITION. Indorsed and purchased by the U. S. Government. A treatise of 430 pages and formula for measuring SENT FREE.

A. A. MARKS.

701 Broadway, NEW YORK CITY.

[Established 41 Years.]

Established 1857.

**The Great CHURCH LIGHT**

Frank's Patent Reflectors for Gas, Oil, or Electric, give the most powerful, softest, cheapest, and best light known for Churches, Stores, Banks, Theatres, Depots, etc. New and elegant designs. Send size of room, get circular & estimate. A liberal discount to churches & the trade. Don't be deceived by cheap imitations.
J. P. FRANK, 501 Pearl St., N. Y.

SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.**Slate, Copper, Tin and Gravel Roofing.****Nos. 20 and 22 EAST STREET, BOSTON.**Order Box at Master Builders Association,
164 Devonshire Street.Special attention given to Repairs
of all kinds.

Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs, acknowledged to be the strongest method in use, and has been applied to many of the best constructed and largest buildings in this country.

*Contracts made for Work wherever desired.***ASPHALT ROOFING AND PAVING MATERIALS.**

WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.

Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO. - - - 81 & 83 Fulton Street, NEW YORK, U. S. A.Send
for
Samples.

If you SPECIFY

**SAMSON SPOT CORD**

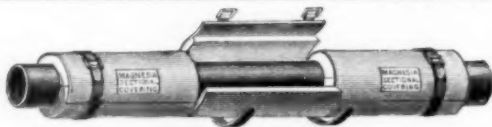
You can tell at a glance that no other cord is substituted. It is warranted to be of pure Cotton, smooth finish and perfect braid.

Samson Cordage Works, Boston, Mass.**JACKSON VENTILATING GRATES**

Have a heat-saving chamber, in which out-door air is warmed; this warm air can be sent to adjoining or upper rooms, if desired.

*Send for Catalogue B.***EDWIN A. JACKSON & BRO., 50 Beekman Street, New York.****YALE LOCKS****BLACKCROSS PORTLAND CEMENT**

IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,IMPORTERS **ROMAN, KEENE'S, VICAT CEMENTS, ENGLISH GLAZED BRICKS.** 23 Liberty Street, NEW YORK.**Absolutely Fire-proof.****MAGNESIA**

—SECTIONAL—

STEAM PIPE AND BOILER COVERINGS.**THE GREAT COAL-SAVER.**

MANUFACTURED BY

The Keasbey & Mattison Company,**CINCINNATI:**
114 West Second St.**AMBLER,**
PA.**CLEVELAND:**
117 Water St.**SELLING AGENTS:**Boston, S. C. Nightingale & Childs, 134 Pearl St.
New York, Robert A. Keasbey, 51 Warren St.
Philadelphia, Macan & Co., 1429 Callowhill St.
Baltimore, Wallace & Bro., 432 E. Pratt St.
Washington, Wm. B. Morgan, Builders' Ex'c., 23 Union St.
New Orleans, Delbert Engineering Co., 23 Union St.
Memphis, Symmes & Co., 192 Front St.Milwaukee, F. Sprinkman, 133 Sycamore St.
Louisville, W. W. Hite & Co., 176 Fourth St.
St. Louis, F. Boeler, 108 Walnut St.
Detroit, S. P. Conkling, 20 Atwater St., East.
Denver, C. W. Badgley & Co., 18th & Market Sts.
Salt Lake City, Utah & Montana Machinery Co.
Butte City, Mont., R. W. James.
S. Francisco, DeSolia & Denning, 2 California St.*The only Rubber Insulation Awarded Medal at World's Fair, Chicago, U. S. A., 1893.***High Grade Insulated Wires for Interior Use
Electric Light Wires and Feeders.**

Kerite Tape.

WRITE FOR CATALOGUE.

Kerite Elastic Tape.

W. R. BRIXEY, Manufacturer, 203 Broadway, NEW YORK.**ASPHALT FLOORS,
ROOFS,
SIDEWALKS AND CARRIAGE-WAYS**Of Public Buildings, Hospitals,
Warehouses, Stables, Cellars, etc.Laid with **VAL de TRAVERS ROCK ASPHALT,**

DURABLE, FIREPROOF AND IMPERVIOUS.

For estimates and list of works executed, apply to

THE NEUCHATEL ASPHALT CO., Limited,
265 BROADWAY. - - - NEW YORK.**Brown's Patent Seamless
DRAWN COPPER HOUSE BOILERS.**

Cannot collapse.

Will not leak.

Ordinary boiler tested to 300 lbs.

Extra heavy tested to 300 lbs.

Made of two seamless drawn copper shells.

Handsome, best and strongest

in the market.

Send for circular giving instructions

for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES,
Waterbury, Conn.

Western Depot: 71 West Washington

St., Chicago. Branch Offices: 104

John St., New York; Room 320 Phila-

delphia Bank Building, Philadelphia;

99 Milk St., Boston; Room 208, Neave

Building, Cincinnati.

Proprietors of the Brown & Bros. Tub-

ing and Boiler Works, and the Brown &

Bros. Brass and Copper Rolling Mills.

Makers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

**TO THOSE INTERESTED IN, OR
USING VALVES:**

WE have recently made improve-

ments in the manufacture of

JENKINS BROS.' VALVES, having

increased the number of bolts, thick-

ness of flanges, etc. We shall man-

ufacture ONE GRADE OF VALVE

ONLY, suitable for high or low-pres-

sure steam. The Jenkins' Discs used

in these valves are suitable for high

or low pressure. We guarantee all

alves stamped with Trade Mark.

JENKINS BROS.,

New York, Chicago, Philadelphia, Boston.

Chicago Interior Decorating Co.*Bank, Office & Club
Equipments.***Mantels, Tiles, Ceramic Mosaics****FINE SPECIAL FURNITURE.**

Highest grade of first class goods.

Drawings and Estimates furnished upon application.

149 & 150 Michigan Ave., Chicago, Ill.

Formerly occupied
by the **Henry Dibblee Co.****BLAKE BELL CO.**

Successors to Wm. Blake & Co.

Bell Founders and Brass Finishers.

Castings in any metal
except iron.

Monumental Tablets, Artistic

Brass Work.

Allen and Brighton Sts., BOSTON.

**J.W. TAYLOR'S PHOTOGRAPH SERIES.**

51 MONROE ST. CHICAGO 1 OF AMERICAN ARCHITECTURE.

Removed to Uwing Building.

Send two 5 cent stamps for Catalogue.

PARQUET FLOORS.**The National Wood Manufacturing Co.,**

129 8th Avenue, New York.

WAINSCOTINGS AND CEILINGS.

Inlaid Wood Floors 5-16 and

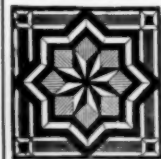
7-8 inch thick.

Solid work, Tongued and Grooved

in each piece.

Designs & Estimates on applica-

tion. Established 1867.



POINTS ON VARNISH.

NO. 268.—267 WEEKS AGO

We began talking to Architects about Varnish. If our audience has listened attentively it is because we talked on a theme of vital importance. Our earnest conviction was and is that a radical reform in the finishing business will be alike beneficial to architect, painter, varnish-maker and owner. It will be of greatest benefit to the tramp painter and the cheat, for it will compel him to do honest work.

We have also had the conviction, and we have tried to arouse that conviction in our audience, that we make the best varnish in the world for the architect's purpose. We believe it (in the vernacular of the street) "way down to the ground." We buy the best material; we have an expert chemist; we pay for the highest order of workmanship; we furnish every known appliance; our storage rooms are ample and our system of warming is perfect; we take plenty of time; and it is simply impossible for better varnish than Murphy's to be made. If our talks from week to week do not sparkle, there is no discount on the sparkle of the varnish.

MURPHY VARNISH CO.

FRANKLIN MURPHY, President.

Head Office: Newark, N. J.

Other Offices: Boston, Cleveland, St. Louis, Chicago.

Factories: Newark and Chicago.

To ARCHITECTS:

If you desire to recommend a firm as one thoroughly capable of supplying complete furnishings for a hotel, club-house or private residence, you can mention us with confidence.

We supply CARPETS, RUGS, UPHOLSTERY FABRICS, FURNITURE, ETC., ETC.

Our goods are right; our prices are right.

We make a specialty of private and exclusive patterns which cannot be duplicated elsewhere.

John H. Pray, Sons & Co.,

658 Washington Street,

Opposite Boylston Street,

BOSTON.

F. W. DEVOE & CO.

(Established 1852.)

Fulton St., cor. William, New York.

No. 176 Randolph St., Chicago.

Pure Ready-mixed Paints.

We desire to call attention of consumers to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fireproof." We use no secret or patent method in manufacturing them by which benzine and water are made to serve the purpose of pure linseed-oil.

Sample cards, containing fifty desirable shades sent on application.

FINE VARNISHES.

Hard Oil-Finish & Wood-Stains.

Illustrated Catalogue of Engineers' and Architects' Supplies, 250 pages, 700 Illustrations, on request.

White-Lead Colors in Oil and Japan.

THE DECORATIVE GLASS

In Abbey's Theatre, N. Y., and Keith's Opera House, Boston, are examples of Renaissance and Rococo designs, the movement, carried out entirely in our hard metal settings.

METALLIC SETTING CO.,

137 Weybosset St., PROVIDENCE, 5 Park Sq., BOSTON.

H.W. Johns' Asbestos Roofing

FIRE PROOF. DURABLE. LIGHT. ECONOMICAL.

This Roofing may be easily applied by unskilled Workmen. It is more durable than tin and costs about one half as much. It has been in use for thirty five years by many well known manufacturers and large corporations throughout the United States.

SAMPLES, PRICES & FURNISHED ON APPLICATION

H.W. JOHNS MFG CO. NEW YORK · JERSEY CITY · CHICAGO · PHILADELPHIA · BOSTON

STAMPED STEEL CEILINGS

MANY DESIGNS

H.S. NORTHRUP
Manufacturer,
30 ROSE ST.
NEW YORK

JOHN WILLIAMS, 544 to 556 West 27th Street, New York.
WROUGHT IRON AND BRASS WORK TO SPECIAL DESIGNS ONLY.
REFERENCES: Tiffany & Co., N. Y.; Cottler & Co., N. Y.; L. Marcotte & Co., N. Y.; McKim, Mead & White, N. Y.; Babb, Cook & Willard, N. Y.; Bruce Price, N. Y.; R. M. Hunt, N. Y.; Bailey, Banks & Biddle, Phila.; Frank Hill Smith, Boston.; A. H. Davenport, Boston.

Awarded the Grand Prize at the late Paris Exposition.

BABCOCK & WILCOX BOILERS

THE BABCOCK & WILCOX CO.

29 CORTLAND ST.
NEW YORK.

SEND FOR BOOK ON STEAM.

NEW ORLEANS, LA. 57 CARondelet St. · SAN FRANCISCO, CAL. SAN FRANCISCO TOOL CO. · HAWAII, CUBA, HISP. CALLE DE LA HABANA.

The American Architect and Building News

IS PUBLISHED EVERY SATURDAY BY

The American Architect and Building News Co.,
211 TREMONT ST., BOSTON, MASS.

Advance Subscription Rates.

Regular Edition, \$5.00 per year; six months, \$3.50.
Imperial Edition, \$10.00 per year; six months, \$6.00.
International Edition, per year in advance, \$25.00.
" " quarterly " 26.00.

[Foreign Postage extra].

Payment should be made to American Architect and Building News Co., direct, either by draft or post-office order.

Address all business correspondence to the publishers direct.

Advertising Agents.

Boston, Philadelphia and Baltimore:—
I. Henry Falge, 211 Tremont St., Boston.

New York City:—
H. M. Carleton, 21 Park Row.

Agent at Large:—
F. P. Spokesfield, 211 Tremont St., Boston, Mass.

Western Agents:—
A. B. Titcomb, R. L. North, Jr., 167 Dearborn St., Chicago, Ill.

Advertising rates: For "wants" and "proposals," 15 cents per line (8 words to the line), each insertion. 50 cents the least charge. Other rates on application.

WANTED.

POSITION.—By draughtsman of long experience in every department of architectural work, with both home and foreign training; position under architect or firm (Members of the A. I. A.) or with manufacturing firm or company, in some line related to building. Competent as junior partner, superintendent or managing draughtsman. High references given. Correspondence desired. New York, Philadelphia, or vicinity preferred. Address "R," care of American Architect. 974

WANTED.

POSITION.—Wanted by an architect a position as superintendent or in office. Address "C. D. A.," 136 Neponset Ave., Boston, Mass. 974

WANTED.

POSITION.—By an experienced architectural draughtsman efficient in construction, coloring and perspective. Address "Efficient," care of American Architect. 980

WANTED.

POSITION.—Wanted by a first-class designer and architectural draughtsman of twelve years' experience, or will take charge of branch office. Address "Architect," 402 South 13th St., Philadelphia, Pa. 974

FOR SALE.

THE Proceedings of the Twenty-seventh Annual Convention of the American Institute of Architects and the World's Congress of Architects, holden at Chicago, July 31st and August 1st, 2d, 3d, 4th and 5th, 1893, containing a series of papers prepared by those immediately engaged in designing and directing the construction of the "White City," besides other papers by native and foreign architects, on subjects of paramount interest.

The list of authors on the World's Columbian Exposition, are:

D. H. Burnham, Director of Works;
F. C. Shunkland, Chief Engineer;
Frederick Law Olmsted, Landscape Architect;
W. H. Holcomb, General Manager of Transportation;
Charles E. Foster, Mechanical Engineer;
R. H. Pierce, Electrical Engineer.

The volume contains over 400 pages and will be sent postage prepaid to any address upon receipt of \$1.25. Edition limited.

ALFRED STONE,
Secretary.

49 Westminster St., Providence, R. I.

FOR SALE.

FOR SALE.—American Architect, Regular Edition, from 1886 to 1892, inclusive. Address offers to "R. R.," care of American Architect. t.f.

ARCHITECTS' REMOVALS, Etc.

WILLIAM E. LEHMAN has opened an office in the Prudential Building, Newark, N. J., and will be pleased to receive catalogues and samples. 974

BUILDING PATENTS.

[Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for ten cents.]

523,900. HOT-AIR FURNACE.—Horatio J. Noyes, Ashabula, O.

524,016. SHUTTER WORKER AND FASTENER.—Gustave Andreen, Omaha, Nebr.

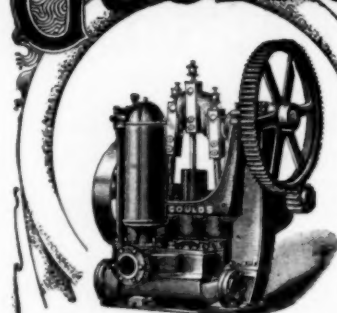
524,048-049. CHECK-VALVE.—Louis Schutte, Philadelphia, Pa.

524,051. PIPE CONNECTION.—William J. Walker, Chicago, Ill.

524,057. LATH-MACHINE.—Calvin F. Darnell and Louis Koss, Indianapolis, Ind.

524,062. ELECTRIC HEATER.—Jesse F. Kester, La Grange, Ill.

GOULDS PUMPS



OUR Triplex Electric Pumps

afford constant and uniform water supply for operating Hydraulic Elevators on either open or closed Tank Systems.

Clean and noiseless in operation.
Efficient or economical in service.
Automatic in control.

Send for Catalogue "Efficient Power Pumps and their applications."

THE GOULDS MANUFACTURING CO.,

Manufacturers of PUMPS and HYDRAULIC MACHINERY,
Works & Main Offices: Seneca Falls, N. Y., U. S. A. Warerooms: 16 Murray St., New York City.
Or Nearest Branch Agency—THE GOULD CO., 22 and 24 North Canal St., Chicago, Ill.
SMITH & WINCHESTER CO., 19 to 27 Wendell St., Boston, Mass. WOODIN & LITTLE, 312 & 314 Market St., San Francisco, Cal.
A. O. NELSON MFG. CO., Eighth & St. Charles Streets, St. Louis, Mo. L. M. HAYES, 221 Vine Street, Philadelphia, Pa.

GEO. HILL, CONSULTING ENGINEER, BUILDINGS.

44 Broadway, N. Y. CITY.

F. E. KIDDER, C. E., ARCHITECT.

1362 California St., DENVER, COLO.

Calculations for trusses and all forms of building construction.

F. S. HOLMES, M. E., VAULT ENGINEERING

1101 Betz Building, Philadelphia.

Plans, Specifications and Superintendence of Vault and Safe Construction.

MONEY TO LOAN

In sums to suit, from \$5.00 to \$1,000, for 5 years, at 6 per cent. interest. No payments of any kind required until application for a loan has been granted. SECURITY REQUIRED. Real estate, houses, stores, stocks, bonds, jewelry, household goods, furniture, merchandise, horses, cattle, livestock, farming implements, and machinery of all kinds, or any other property, real or personal, of value; or a note, endorsed by person worth amount of money borrowed, will be accepted as security. Don't hesitate to write and ask for a loan. Address, MUTUAL SAVINGS AND LOAN CO., Tenth and Walnut Streets, Philadelphia, Pa.

E. ELDON DEANE,

Architectural Colorist and Draughtsman.

54 Bible House, NEW YORK CITY.

BUILDING PATENTS.

524,091. STONE GRINDING OR POLISHING MACHINE.—John Lavers, Quincy, Mass.

524,098. ANNUNCIATOR.—Philipp Weber, Nuremberg, Ger.

524,110. DEVICE FOR REMOVING AIR FROM STEAM-HEATING SYSTEMS.—Levi Huxsey and Edward McCann, New York, N. Y.

524,113. RAIN-WATER CUT-OFF.—August Kroll, Leopold, Wis.

524,115. STEAM-BOILER.—Chas. E. Parker, Orange, Tex.

524,146. SASH-FASTENER.—John H. Hottes, St. Louis, Mo.

524,148. LOCK.—James Roche, Terryville, Conn.

524,150. URINAL.—John Tucker, New York, N. Y.

524,160. COMPASSES.—Milton Bradley, Springfield, Mass.

524,176. FLUSH WATER-CLOSET VALVE.—John Liming, Philadelphia, Pa.

524,183. SECTIONAL STEAM-BOILER.—Horace M. Norton, Easton, Pa.

524,186. HANGER FOR EAVES-TROUGHS.—Samuel Silberstein, Pittsburgh, Pa.

524,233. CEMENT-MILL.—John A. Albertson, Lansing, Mich.

524,246. WATER-CLOSET.—Michael Garland, Seabright, N. J.

524,248. HEATING-STOVE.—James S. Harkins, Minneapolis, Minn.

524,250. ELECTRIC SASH-BALANCE.—William C. Hodgkins, Washington, D. C.

524,257. EAVES-TROUGH HANGER.—Conrad Lumm, Garrett, Ind.

524,270. ADJUSTABLE PORTABLE SCAFFOLD.—Thomas H. Wimbush, St. Louis, Mo.

524,284. FIREPROOF FLOOR.—Harry B. Price, London, Eng.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

ADVANCE RUMORS.

Bath, N. C.—C. Estes will build a cotton factory to cost \$300,000.

PERCY N. KENWAY,

85 WATER STREET, BOSTON.

Plans and specifications for Heating and Ventilating Apparatus.

See last or next issue for the following advertisements.

C. C. Abel & Co.
Brownville Maine Slate Co.
Chrome Steel Works.
Continental Insurance Co.
F. E. Cudell.
Howson & Howson.
C. P. Karr.
Merchant & Co.
E. B. Moore & Co.
New England Water Pipe Co.
Smith & Egge Mfg. Co.
Spaulding & Moss.
J. S. Thorn Co.

See the first issue of the month for the following advertisements.

Allen's Portland Cement Works.
Bally & Truscott.
T. H. Brooks & Co.
Folsom Snow Guard Co.
Brooks, Shoobridge & Co.
Farrand & Votey Organ Co.
I. P. Frink.
Lane Bros.
McCauley Glass Company.
E. Thiele.
Penn Iron Roofing & Corrugating Co.
Wm. R. Pitt.
Ludlow Saylor Wire Co.
S. Wilks Mfg. Co.

BUILDING INTELLIGENCE.

(Advance Rumors Continued.)

Boston, Mass.—The city has bought the old West Church on Cambridge St., and will turn it into a branch of the Public Library.

A syndicate will build a ten-sty building, to cost \$750,000, on Washington and Devonshire Sts.

The Franklin Brewing Co. will build a six-sty brick and stone brewery, at Jamaica Plain.

Cleveland, O.—A new city-hall is to be built and the question of a site is under discussion.

A new flouring mill, 96' x 105', will be built by the Broadway Mills Co., to cost \$20,000.

Harriman, N. Y.—The N. Y. Central & Hudson River R. R. will build a two-sty station, 21' 4" x 40' 8".

Haverhill, Mass.—The Haverhill Savings Bank will build a fine mercantile building on Merrimac and West Sts.

Indianapolis, Ind.—The Trustees of the Insane Hospital will build a fireproof laundry.

Jefferson City, Mo.—The main building of Lincoln Institute, recently burnt, will be rebuilt at a cost of about \$40,000.

Lynn, Mass.—A public library, to cost about \$109,000, will be built.

Menasha, Wis.—It is said that the Brighton Beach Co. will build 100 summer cottages; information can be given by W. W. Reed.

Mt. Vernon, N. Y.—A new city-hall building is proposed.

North Attleboro, Mass.—The Woman's Relief Corps will build a two-sty frame building to cost about \$8,500.

Orange, N. J.—Bernard S. Samuel has been directed to secure plans for the erection of a Jewish synagogue, to cost about \$5,000.

A brick hose-house, to cost about \$6,000, will be built on Washington St.

Shenandoah, Pa.—Jarden and Cherry Sts., the School Board will have a new school-house erected on a lot just purchased for that purpose.

Scho, N. Y.—A two-sty brick school-building will be built.

St. Louis, Mo.—A new Union Depot Hotel, to cost \$150,000, will be built.

The Drummond Hotel, to cost \$150,000, will be built.

John Sullivan will build a hotel, to cost \$20,000, at 18th and Market Sts.

Waterbury, Conn.—An addition is to be built to the Washington School-house on Baldwin St., of five rooms, not to exceed \$20,000.

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING,
NEW YORK.

DREXEL BUILDING,
PHILADELPHIA.

MONADOCK BUILDING,
CHICAGO.

DASHWOOD HOUSE,
LONDON.

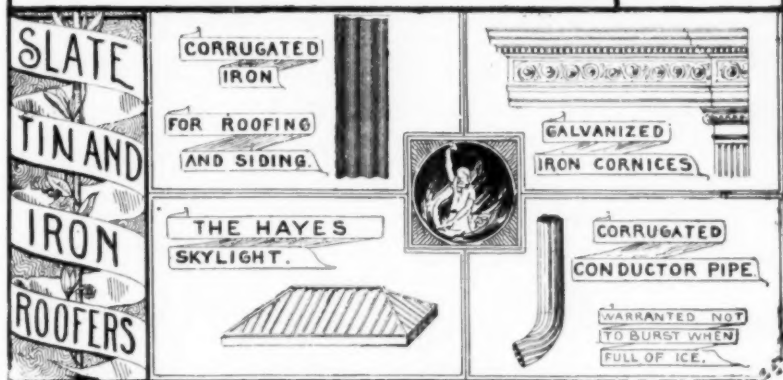


Announce to all who contemplate *building or renovating*
Hotels, Office Buildings or Residences, that they have
formed a department in their extensive works for
Architectural Woodwork,
Fine Cabinet Work, and
Interior Finishing.

Plans, designs, specifications and further particulars will be submitted on ap-
plication. Address **WORKS AT WILMINGTON, DEL.**

JAMES A. MILLER & BRO.

129 & 131
S. CLINTON ST
CHICAGO



THE "GORTON" BOILER,

For STEAM and HOT-WATER HEATING.

ECONOMICAL IN FUEL, AUTOMATIC, SELF-FEEDING.

A STEEL SECTIONAL TUBULAR BOILER.

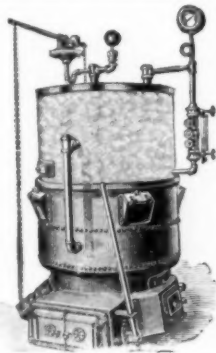
Correspondence solicited from Architects and those interested in
Heating Large or Small Buildings.

Our New Book on MODERN HOUSE HEATING furnished on application.

CORTON & LIDGERWOOD CO.,

96 LIBERTY STREET, NEW YORK.

197 to 203 Congress St., Old Colony Bldg., Van Buren and Dearborn Sts.,
BOSTON. CHICAGO.



PAUL E. CABARET (Successor to SPADONE & CABARET),
BRONZE AND BRASS WORK OF ALL KINDS
For Banks, Churches, Mausoleums, etc. Doors and Gates a specialty.
Send for Catalogue. Herring Building, Junction of 9th Ave. & 14th Street, New York.

BUILDING INTELLIGENCE.

(Advance Rumors Continued.)

White Plains, N. Y.—It is proposed to enlarge the school-building on Martine Ave.

Woburn, Mass.—The Boston & Maine Railroad will build a new frame passenger station.

Worcester, Mass.—The State Mutual Life Assurance Co. will build a nine-story block, 140 feet square.

ALTERATIONS AND ADDITIONS.

Boston, Mass.—Washington and Beach Sts., re-modelling store and basement, new construction and plate-glass; \$10,000; own., Lessee McManus & Co.; bld., James Fagan; arch., Rand & Taylor; contract let.

APARTMENT-HOUSES.

Boston, Mass.—Beacon St., near Massachusetts Ave., Ward 22, six-story brick apart., flat roof, 24' x 75'; own., G. Bradford, Trus.; bld., C. A. Dodge.

Leland St., near East Cottage St., Ward 20, three-story frame apart., flat roof, 26' x 52'; own., Edith E. Martin; bld., J. W. Vall.

Sydney St., near Savin Hill Ave., Ward 21, frame dwell., 22' 6" x 44'; own. and bld., J. K. Beale.

Cambridge, Mass.—Kinnaird St., near Putnam Ave., Ward 4, three-story frame apart., flat roof, 40' x 50'; \$10,000; own., C. B. Moller; arch., C. H. McClure; contract being figured.

Hartford, Conn.—Lawrence St., near Park St., three-story brick block of six flats, 45' x 50'; \$8,000; own., Mrs. Emily Allen; arch., Willis E. Becker; contract not let.

New York, N. Y.—Pitt St., No. 60, five-story brick flats, flat tin roof, 25' x 88', 59' high; \$22,000; own., Henry Wirth, 145 Delancey St.; arch., Chas. Rentz, 153 Fourth Ave.

Second Ave., w s, 25' n 52d St., 3 five-story brick flats, flat tin roof, 25' x 88' 6", 59' high; \$60,000; own., Weil & Mayer, 227 East 60th St.; arch., Schneider & Herter, 48 Bible House.

St. Louis, Mo.—Two-story flat, e s Dolman St., bet. Park Ave. and Hickory St.; \$3,800; own., T. Ziegler.

Worcester, Mass.—Central St., five-story brick apart.; own., J. Hennessey; con., Geo. C. Reidy; arch., Geo. & J. P. Kingston.

BUILDING INTELLIGENCE.

CHURCHES.

Brooklyn, N. Y.—Parise St., s w cor. 3d Ave., one-story brick church, slate, tin and tile roof, 71' 8" x 100'; \$60,000; own., Swedish Lutheran Beth Church Society, 515 Pacific St.; arch., R. L. Davis, 26 Court St.

Parkeburg, W. Va.—New Presbyterian church; \$20,140; con., Higgs, Ogden & Co., Charleston, W. Va.

Scranton, Pa.—Frame, Washburn St. Presbyterian Church, entire seating capacity of 1,000; about \$20,000; arch., D & Houtp, Commonwealth Building.

EDUCATIONAL.

Cambridge, Mass.—Dudley St., cor. Cedar St., two-story brick school, slate roof, 57' x 123'; \$23,000; own., City of Cambridge; bld., W. I. Mabey; arch., C. H. McClure.

Pittsburgh, Pa.—The contract for building the high school has been given to A. & S. Wilson; \$179,722.

Wilmington, Del.—The new No. 9 school-building will be built by A. S. Reed & Bro.; \$24,300.

Yorkville, Pa.—Plans have been prepared by W. D. Hill, Pottsville, Pa., for the erection of a four-room brick school-house.

FACTORIES.

Brooklyn, N. Y.—Huntington St., n s, 200' e Smith St., one-story frame factory, felt and gravel roof, 90' x 225'; \$10,000; own., J. H. Baker & Bro., Smith and Huntington Sts.; bld., C. M. White, 18 First St.; arch., Albert E. White, 190 Seventh Ave.

Foxboro, Mass.—Two three-story brick buildings for manufacturing purposes, flat roofs, each 60' x 210'; \$70,000; own. and bld., The Van Choate Electric Co.; arch., G. Leslie Nichols, 70 Kilby St., Boston.

New York, N. Y.—Madison St., s s, 275' w Jackson St., six-story brick factory, flat tin roof, 30' x 90', 60' high; \$13,500; own., Joseph Levin, Watkins St., Brooklyn; arch., E. & C. M. Kowley, Ozone Park, Brooklyn.

ARCHITECTURAL DRAWING



DIPLOMAS AWARDED. Courses in other trades all including thorough instruction in Mathematics and Physics. Send for FREE circular stating subject you wish to study to The Correspondence School of Industrial Sciences, Scranton, Pa.

BUILDING INTELLIGENCE.

HOSPITALS.

Concord, N. H.—Two-story brick insane asylum for men, hip roof, 62' x 64'; ell, 27' x 45'; \$30,000; own., State of New Hampshire; bld., Giles Wheeler, Resident Supt.; arch., Rand & Taylor, Boston, Mass.

Durham, N. C.—Four two-story frame hospital buildings, hip roofs, male ward, 31' x 62', female ward, 31' x 62', administration building, 36' x 36', surgical building, 17' x 27'; own., George W. Watts; bld., C. H. Norton, Durham, N. C.; arch., Rand & Taylor, Boston; contract not let.

HOUSES.

Boston, Mass.—Park St., Ward 23, two-and-one-half-story frame dwell., pitch roof, 33' x 47'; \$6,000; own., W. D. Soule; arch., Herbert Moseley, 50 Bromfield St.; contract not let.

Templeton St., cor. Dorchester Ave., Ward 24, frame dwell., 28' x 45'; own. and bld., J. D. Stuart.

Bellevue St., near Baker St., Ward 23, frame dwell., 22' x 35'; own. and bld., J. W. Brown.

Harvard St., No. 73, Ward 24, frame dwell., 28' x 38'; own., G. L. Davidson.

Fremont St., cor. Norfolk St., Ward 24, frame dwell., 24' x 49'; own., Mrs. W. F. Warren; bld., B. Rockwell.

Orwell St., near Calumet St., Ward 22, three-story frame dwell., pitch roof, 23' 6" x 50'; own., T. O'Leary; bld., Dan. Loane.

St. Alphonsus St., near Smith St., Ward 22, frame dwell., 23' x 44'; own., W. Gately; bld., M. J. O'Brien.

Saratoga St., No. 10, Ward 1, three-story frame dwell., flat roof, 21' x 40'; own., Elizabeth Belyea; bld., M. Moreland.

Fayette St., No. 87, Ward 11, four-story brick dwell. and store, flat roof, 25' x 34' 6"; own., G. D. Moore, Trustee; bld., C. E. Woodman.

Dillon St., near Sawyer St., Ward 19, three-story brick dwell., flat roof, 2' x 40'; own., J. J. Cronin; bld., James Hanning, 30 Sawyer St.

Green St., No. 83, Ward 3, three-story frame dwell., flat roof, 25' x 52'; own., G. R. Cunningham; bld., E. O. Stone.

Central Sq., No. 6, Ward 2, frame dwell. and store, 19' x 67' 6"; own., A. P. Fisher; bld., Frank Finn.

Linden Ave., near Lamont St., Ward 19, frame dwell., 42' x 43'; own., Ernest Schmidt; bld., J. Luippold.

Mosely St., near Crescent Ave., Ward 24, three-story frame dwell., flat roofs, each 20' x 33'; own. and bld., P. J. Sullivan.

West Park St., cor. Kilton St., three-story frame dwell., flat roof, 37' 2" x 41'; own., B. Rockwell.

Cathedral St., near Fenwick St., Ward 21, three-story frame dwell., flat roof, 22' x 41'; own., B. P. Walker; bld., B. F. Brown.

Dorchester Ave., Nos. 635-7, Ward 15, 2 frame dwell., 25' x 50'; own., J. M. Chminksi; bld., H. S. and M. Clark.

Lamartine St., near Bell St., Ward 25, frame dwell., 26' x 52'; own., James McElroy; bld., J. J. Flynn.

Norfolk Ave., cor. Shirley St., Ward 20, frame dwell., 18' x 48'; own. and bld., Patrick Crowley.

Pontine St., near Norfolk Ave., Ward 20, 2 frame dwell., 22' x 35'; own., E. F. Collins; bld., W. K. Kinnead.

Maiden Lane, near Reading St., Ward 20, three-story frame dwell., flat roof, 23' x 45'; own., Jacob Attica; bld., P. Schneider.

Westover St., near Weld St., Ward 23, frame dwell., 30' x 48'; own., Isaac Riley; bld., A. Hathaway.

Corwin St., near Arcadia St., Ward 24, 3 frame dwell., 26' x 52' each; own., Bridgett E. Cullen; bld., Howard Bros.

Sydney St., near Savin Hill Road, Ward 24, 2 frame dwell., 26' x 30'; own., J. H. Beal; bld., S. L. Barlow.

High St., No. 50, Ward 5, three-story frame dwell., 30' x 64'; own. and bld., C. P. Whittle.

Edwin St., near Dorchester Ave., Ward 24, frame dwell., 25' x 37'; own. and bld., J. E. Wilber.

Lamont St., near Linden Park St., Ward 19, three-story frame dwell., flat roof, 32' x 38'; own., E. Schmidt; bld., J. Luippold.

Calumet St., near Sachem St., Ward 22, three-story frame dwell., pitch roof, 25' x 51'; own., Ellen Sheehan; bld., C. F. Brawley.

Howell St., No. 30, Ward 15, three-story frame dwell., flat roof, 22' x 49'; own. and bld., E. Tovey.

Sheridan St., cor. Cranston St., Ward 23, three-story frame dwell., hip roof, 24' x 50'; own., Annie T. McAleer, et al; bld., Walter Curley.

Brooklyn, N. Y.—Diamond St., e s, 50' n Nassau St., three-story frame dwell., tin roof, 25' x 60'; \$1,000; own., D. Eggers, 642 Leonard St.; arch., Henry Vollweiler, 453 Hart St.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,

BEAMS, CHANNELS, ANGLES, ZEEs, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.

Round, Square and Flat Bars
of all sizes.

SPECIALTIES:

PHENIX COLUMNS AND UPSET EYE-BARS

Of all sizes, in Iron or Steel.

ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.

AGENTS:

New York: EDWARD CORNING & CO., 29 Broadway.

Chicago: A. C. STITES, 931 Rookery Building.

Boston: EDWARD CORNING & CO., 70 Kilby Street.

PASSAIC ROLLING MILL CO., PATERSON, N. J.

STEEL BEAMS

4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

NEW YORK OFFICE, - - 45 BROADWAY

BELMONT IRON WORKS, Limited.

Successors to



MANLY & COOPER MANUFACTURING CO.

Ornamental

AND

Architectural
IRON.

GUARDS—
RAILINGS—
STAIRS.

Twenty-Second Street and Washington Ave
PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Houses Continued.)

Twenty-ninth St., w s, 249 s Avenue C, two-st'y
and attic frame dwell., shingle roof, 24' 6" x 43';
\$3,800; own., Mrs. Ellen Shand, 338 South 5th St.;
arch. and bld., B. Driscoll, 1077 Rogers Ave.

Fifty-fourth St., s s, 250 e 2d Ave., 3 two-st'y
frame dwells., tin roofs, 17' x 32'; \$1,000 each; own.,
F. C. Day and W. Thompson, 54th St. and 3d Ave.;
arch., W. H. Manser, 49 Rockwell Pl.

Seventy-fourth St., n s, 350 w 3d Ave., two-st'y
and attic frame dwell., shingle roof, 28' x 40' 6";
\$3,200; own., Geo. Larson; arch., H. L. Spicer, 1106
Third Ave.

Seventy-third St., n s, 249 w 1st Ave., two-st'y and
attic frame dwell., shingle roof, 32' x 31'; \$3,000;
own., James Mills, 3d Ave. and 78th St.; arch., H.
L. Spicer, 1106 Third Ave.

East Nineteenth St., w s, 300 s Avenue A, two-st'y
and attic frame dwell., shingle roof, 25' x 30'; \$5,200;
own., G. W. Egbert, West Clarkson St.

Bay Thirteenth St., s s, 100 e Benson Ave., 3 two-
st'y frame dwells., tin and shingle roofs, 17' x 20' x
30'; \$2,000 each; own., Imogen C. Fales, 705 Macon
St.; arch., H. D. Whipple, Voorhis Ave. and 23d
St.

Forty-ninth St., s s, 180 w 14th Ave., two-and-one-
half-st'y frame dwell., shingle roof, 24' x 38' 6";
\$3,200; own. and bld., C. Purdy, 80 Ross St.; arch.,
Paul F. Higgs, 835 Broadway, New York City.

Park Pl., n s, 230 e Vanderbilt Ave., 4 three-st'y
and basement brick dwells., tin roofs, 18' 9" x 43';
total, \$25,000; own., Wm. H. Reynolds, Washington
and Fulton Sts.; arch., Dahlander & Hedman, Ar-
buckle Building.

St. Mark's Ave., s s, 217 e Rogers Ave., three-st'y
and basement brick dwells., tin roofs, 20' x 45';
\$9,000; own., W. C. Boone, Jr., 535 Greene Ave.;
arch., Chas. Infanger, Atlantic and Georgia Aves.

New York, N. Y. — One Hundred and Seventy-third
St., n w cor, Topping St., three-st'y stone and frame
dwell., flat tin roof, 34' x 48', 49' high; \$6,000; own.,
Catharine Stanger, 378 West 177th St.; arch., Clever-
don & Putzell, 13 Astor Pl.

Horritt Pl., e s, 100 w Leggett Ave., three-st'y brick
and frame dwell., flat tin roof, 22' x 46', 26' high;
\$3,500; own., Eugene Holtz, 18 Hall Pl.; arch.,
Gustave Schwarz, 534 East 1 8th St.

Jefferson Ave., e s, 125 w Tremont Ave., three-st'y
stone and frame dwell., flat tin roof, 20' x 46', 31'
high; \$3,500; own., Edward T. Doegan, 175th St. and
Pleasantwood Ave.; arch., Charles S. Clark, 719 East
177th St.

One Hundred and Sixty-fifth St., n s, 70 e Boston
Ave., 6 three-st'y brick dwells., flat tin roofs, 16' 2"
x 30', 32' high; \$18,600; own., Charles Pitchie, 2051
Arthur Ave.; arch., J. J. Vresland, 709 Tremont
Ave.

One Hundred and Sixty-fifth St., s s, 109 w Tinton
Ave., 2 three-st'y brick and frame dwells., flat tin
roofs, 20' x 59', 35' high; \$12,000; own., Charles D.
Ozden, 731 Cauldwell Ave.; arch., W. C. Dickerson,
119th St. and 3d Ave.

Tiffany St., w s, 206 w 165th St., three-st'y brick
and frame dwell., flat tin roof, 20' x 43', 35' high;
\$4,000; own., Larsen & Sakariser, 16 2 Tiffany St.;
arch., John De Hart, Fox St., near 165th St.

Boulevard, w s, 327 n Home St., 2 three-st'y brick
and frame dwells., flat tin roofs, 20' x 50', 35' high;
\$10,000; own., Marie M. Johannesen, 1176 Simpson
St.; arch., John De Hart, Fox St., near 165th St.

Union Ave., w s, 361 s Boston Ave., three-st'y
stone and frame dwell., peak slate and tin roof, 20'
x 45', 41' high; \$4,500; own., W. C. and E. H. Ham-

Iron Work.

JACKSON ARCHITECTURAL IRON WORKS,

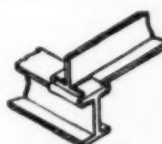
ESTABLISHED 1840.

IRON

Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams,
Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings
and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze.
Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts.

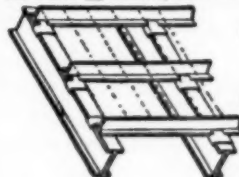
Office, 315 East 28th St., New York.



H. A. Streeter's Patent Clip



ARCHITECTS, OWNERS, CONTRACTORS, and all
others interested in Iron or Steel construction will please
note that I have PATENTED A STEEL CLIP for connect-
ing Angle or Tee bars to I Beams, etc., which reduces the expense one-half,
and does away with the old method of Drilling and Bolting, which is a great sav-
ing of Time, besides allowing an easy method of adjusting Tee bars to any de-
sired width of Tile. (This method is now adopted by our principal contractors).
Clips furnished ready to apply by sending the Sections and weight of Tee
Bars and I Beams, for which connections are wanted.



FOR PRICES AND FURTHER INFORMATION

APPLY TO STREETER

Globe Iron Works,

35-41 E. INDIANA STREET,

CHICAGO, - - - ILL.



ORNAMENTAL
IRON
WORK

PRISMATIC
LIGHT
WORK



BUILDING INTELLIGENCE.

(Houses Continued.)

mond, 55 West 12th St.; arch., W. C. Hammond, 55
West 12th St.

One Hundred and Sixty-first St., s s, 120 w Union
Ave., three-st'y brick and frame dwell., flat tin roof,
19' x 53', 35' high; \$5,500; own., Joseph Rineh, 968
East 161st St.; arch., W. C. Dickerson, 3d Ave. and
149th St.

St. Nicholas Ave., e s, 25 w 152d St., 2 four-st'y
brick dwells., flat tin roofs, 21' x 43', 50' high;
\$32,000; own., C. J. Judson, 74 West 54th St.; arch.,
Clarence True, 102 West 81st St.

Franklin Ave., w s, 119 w 170th St., 3 three-st'y
stone and frame dwells., flat and mansard tin roofs,
17' x 53', 32' 6" high; \$10,500; own., L. O. Reeve, 432
Canal St.; arch., Michael J. Garvin, 331 Third Ave.

St. Louis, Mo. — Two-st'y dwell., s s Delmar Ave.,
bet. Pendleton and Newstead Sts.; \$12,000; own., J.
W. Teasdale.

Two-st'y dwell., s s Cabanne St., bet. Academy
and Clarenton Aves.; \$9,000; own., W. S. Balson.

Two-st'y dwell., n s Clemens Ave., bet. Clare and
Belt Aves.; \$6,000; own., W. Socus.

Worcester, Mass. — Randall St., one-and-one-half-
st'y frame dwell.; own., W. N. Flegg; con., F. J. Goff.

Chandler St., two-st'y frame dwell.; own., E.
Miller; con., E. B. Rogers.

Henshaw St., two-st'y frame dwell.; own., F. W.
Nims; con., A. I. Fortier.

Holden St., two-st'y frame dwell.; own. and con.,
W. H. Kilborn.

Hops Ave., 2 one-and-one-half-st'y frame dwells.;
own. and con., Samuel D. May.

Windsor St., one-and-one-half-st'y frame dwell.;
own., A. Burlingame; con., F. J. Goff.

Oliver Ave., two-st'y frame dwell.; own., Geo. E.
Green; con., F. J. Goff.

Bancroft St., 2 three-st'y frame dwells.; own., W.
Dodge; con., E. B. Rogers.

PUBLIC BUILDINGS.

Springfield, Mass. — A stone armory, to cost \$68-
000, will be built; con., Morrissy & Shea.

STABLES.

New York, N. Y. — One Hundred and Thirty-sixth
St., n s, 110 w 5th Ave., 2 three-st'y brick stables,
flat tin roof, 27' x 33' x 54' x 70', 40' high; \$16,000;

BUILDING INTELLIGENCE.

(Stables Continued.)

own. Cording & Bunke, 2153 Fifth Ave.; arch., Gil-
bert Robinson, 221 West 133d St.

Worcester, Mass. — Pleasant St., one-st'y frame
stable; own., Carolina Robbins; con., D. S. Robbins.

STORES.

Brooklyn, N. Y. — Third Ave., e s, 20 s 92d St.,
three-st'y frame store and dwell., tin roof, 20' x 55';
\$3,400; own., C. Sullivan, 747 Union St.; arch., J. L.
Queensbury, 1168 Fourth Ave.

Nassau Ave., n s, 75 e Oakland St., three-st'y
frame store and dwell., gravel roof, 25' x 64'; \$5,300;
own., Chas. J. Skidmore, 70 Manhattan Ave.; arch.,
P. Tillion, 209 Manhattan Ave.

Meeker Ave., n s, 70 w North Henry St., three-st'y
frame store and dwell., gravel roof, 25' x 55'; \$4,500;
own. and bld., David Quinlan, 64 Diamond St.;
arch., P. Tillion, 209 Manhattan Ave.

New York, N. Y. — Seventy-fourth St., s e cor. Co-
lumbus Ave., one-st'y brick store-building, flat tin
roof, 50' x 98', 21' high; \$20,000; own., A. Corning
Clark, Cooperstown, N. Y.; arch., Geo. H. Griebel,
247 West 125th St.

St. Louis, Mo. — Two-st'y store and flat, n s Easton
Ave., bet. Good and Sarah Sts.; \$14,000; own., S. T.
A. Sharf.

TENEMENT-HOUSES.

New York, N. Y. — Amsterdam Ave., n s, 767 s 102d
St., five-st'y brick tenement, flat tin roof, 25' x 58',
58' high; \$14,000; own., David Christie, 267 West
End Ave.; arch., M. V. B. Perdon, 1760 Broadway.

COMPETITIONS.

MUSEUM OF ANTIQUITIES.

[At Cairo, Egypt.]

The Egyptian Government have decided to put into
competition the supply of the best project for building
a museum for the Egyptian Antiquities in Cairo.

Architects of all nations are admitted to compete.

The amount allotted for this purpose is £E. 120,000.

Awards will be given to the authors of the best pro-
jects: the first being fixed at £600 and the next four
will have a sum of £E. 400 divided amongst them.

The projects should reach Cairo at latest on the 1st
March, 1895, at noon.

THE J. L. MOTT IRON WORKS,

84 to 90 Beekman Street, New York.

311 and 313 Wabash Avenue, Chicago.

322 and 324 Boylston Street, Boston.

Wainwright Building, St. Louis.

Flood Building, San Francisco.



Copyright, 1893, by THE J. L. MOTT IRON WORKS, in their publications. Plate 1087G. (Reduced cut.)

FINE appearance, durability, and perfection from a sanitary standpoint are all combined in these baths. They entail no labor, scouring or burnishing, requiring merely to be wiped out with a sponge to be thoroughly cleaned.

Interested parties are invited to visit our showrooms and examine these and other sanitary appliances.

IMPERIAL PORCELAIN ROLL-RIM BATHS.

ILLUSTRATED PRICE-LIST MAILED ON APPLICATION.

COMPETITIONS.

The programme of this competition will be supplied by the Public Works Department in Cairo, on application. 985

NOTE:—The sterling pound is worth £E. 0.975, and the French piece of twenty francs £E. 0.770.

PROPOSALS.

Treasury Department, Office Supervising Architect, Washington, D. C., August 21, 1894. Sealed proposals will be received at this office until 2 o'clock p. m. on the 18th day of September, 1894, and opened immediately thereafter, for all the labor and materials required for the superstructure and roof-covering, including approaches, of the United States Post-office and Custom-house building at Fargo, N. D., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Fargo, N. D. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Superstructure, etc., of the United States Post-office and Custom-house at Fargo, N. D.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 975

Proposals for Dynamos. Office of Building for Library of Congress, 145 East Capitol St., Washington, D. C., August 23, 1894. Sealed proposals for furnishing and delivering three 125-volt direct coupled dynamos and engines for the Building for Library of Congress, in this city, will be received at this office until 2 o'clock p. m., on Monday, the 10th of September, 1894, and opened immediately thereafter in presence of bidders. Specifications, general instructions and conditions and blank forms of proposal may be obtained on application to this office. BERNARD R. GREEN, Superintendent and Engineer. 975

OFFICERS' QUARTERS, ETC.

[At Burlington, Vt.] Proposals are wanted until September 13, for officers' quarters, administration building and magazine. Address CAPT. GUY HOWARD, A. Q. M., U. S. A., as above. 976

EARTH CLOSETS.

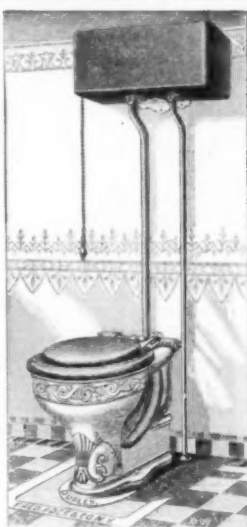
[At Fort Bliss, Tex.] Proposals are wanted until September 10, for dry earth closets. Address G. C. SMITH, Q. M., U. S. A., San Antonio, Tex. 976

GARBAGE CREMATORY.

[At Fort Wadsworth, N. Y.] Proposals are wanted until September 15, for a garbage crematory. Address POST QUARTERMASTER, as above. 976

INSANE ASYLUM.

[At Medfield, Mass.] Proposals are wanted until August 27, for excavations and foundations for Medfield Insane Asylum. 975



PROPOSALS.

W. P. Wentworth, architect, 8 Exchange Pl., Boston. Address BUILDING COMMITTEE OF TRUSTEES OF MEDFIELD INSANE ASYLUM, 708 Chamber of Commerce, Boston. 974

ARMORY.

[At Niagara Falls, N. Y.] Proposals are wanted until September 5, for building an armory. Address JOSIAH PORTER, Adj. Genl., Albany, N. Y. 975

ASPHALT PAVEMENTS.

[At Washington, D. C.] Proposals are wanted until September 4, for asphalt pavements. Address J. W. ROSS, GEORGE TRUESDELL, CHAS. F. POWELL, Commissioners, as above. 975

CITY-HALL AND MARKET.

[At Jacksonville, Fla.] Proposals are wanted until September 10, for proposed city-hall and market-building. Address JOHN R. SCOTT, architect, Board of Trade Building, as above. 976

STEAM-HEATING AND ELECTRIC-LIGHTING.

[At Paterson, N. J.] Proposals are wanted until September 5, for steam-heating and electric-lighting for new city-hall. Address CARRERE & HASTINGS, architect, 44 Broadway, New York City, or on the City-hall Grounds at Paterson. 975

"DUPLEX"

THE BEST WATER CLOSET

IN THE WORLD

*Quiet in Operation,
Positive in Action,
Elegant in Appearance*
—AND—
Sanitarily Perfect.

FRED. ADEE & CO.,
90 BEEKMAN ST.,
NEW YORK.

PROPOSALS.

WATERWORKS.

[At Traer, Iowa.] Proposals are wanted until September 3, for a waterworks plant. Address W. J. LADD, Recorder, as above. 975

ELECTRIC-LIGHT PLANT.

[At Toronto, Can.] Proposals are wanted until September 1, for a complete electric-light plant for the City of Toronto. Address ALDERMAN W. T. STEWART, Chairman of Committee, as above. 974

HIGH SCHOOL.

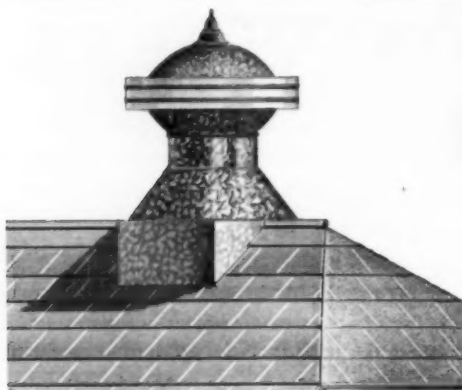
[At Boston, Mass.] Proposals are wanted until August 27, for a high school building in the Brighton District. Address EDMUND M. WHEELWRIGHT, City Architect, as above. 974

BUILDING.

[At Polk, Pa.] Proposals are wanted until August 30, for building the Western Pennsylvania State Institute for the Feeble-minded. Address F. J. OSTERLING, architect, Pittsburgh, Pa. 974

HEATING APPARATUS.

[At Hillsboro, O.] Proposals are wanted until September 11, for heating apparatus for jail and court-house. Yost & Packard, architects, Columbus, O. Address JAMES REECE, County Auditor, as above. 976



The Proverbial Cucumber

is not cooler than a

HOUSE, HALL, CHURCH OR FACTORY

that is ventilated by the

GLOBE VENTILATOR.

Send for Circular on the Subject.

GLOBE VENTILATOR COMPANY,
TROY, NEW YORK.

THE VAN VRANKEN FLUSH TANK.
For Sewers, Subsoil Disposal, etc.
For catalogues, discounts and other particulars, address
J. LELAND FITZGERALD,
437 STATE STREET, SCHENECTADY, N. Y.

"THE CAST SINK MUST GO"

THE COLUMBUS SINK DISPLACES
WROUGHT STEEL ALL OTHERS

PAINTED, GALVANIZED, ENAMELLED.

Send for descriptive circular and prices, to
The Kilbourne & Jacobs Mfg. Co.
Sole Manufacturers. — COLUMBUS, OHIO.

BROUGHTON'S

Patent

Self-
Closing

BASIN

COCK.

CAN

NOT

BE

TIED

OPEN.

Every One Warranted.

Stebbins Mfg. Co., BRIGHTWOOD,
MASS.,
SOLE MANUFACTURERS.

PROPOSALS.

LIGHT-STATION.

[At Crooked River, Fla.]
Proposals are wanted until September 11, for
buildings and metal work for light-station. Address
MAJOR JAMES B. QUINN, C. of E., U. S. A.,
Seventh District, New Orleans, La. 976

OFFICERS' QUARTERS, ETC.

[At Plattsburgh, N. Y.]
Proposals are wanted until August 30, for officers'
quarters, plumbing, wardrobe-lockers, etc. Address
CAPT. GEORGE E. POND, A. Q. M., U. S. A., as
above. 974

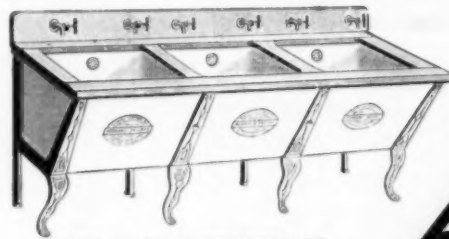
OIL-HOUSE.

[At Fort Ethan Allen, Vt.]
Proposals are wanted until August 30, for a
mineral-oil house. Address CAPT. GUY HOWARD,
A. Q. M., U. S. A., Burlington, Vt. 974

SCHOOL-HOUSE.

[At Riverside, Ill.]
Proposals are wanted until September 11, for
eight-room school-house. Kuhlmann & DeCamp, ar-
chitects, Cincinnati, O. Address CLERK OF BOARD
OF EDUCATION, as above. 976

Proposals for Iron and Marble Work and Cut Granite.
Office of Building for Library of Congress, 145 East
Capitol Street, Washington, D. C., August 15, 1894.
Separate sealed proposals will be received at this office
until 2 o'clock P. M. on Wednesday, the 29th day of



SOLE MANUFACTURERS OF
MORAHAN'S PATENT SOLID WHITE
CROCKERY STATIONARY

WASH TUBS

Perfectly Glazed, Smooth Surfaces.
No labor required to keep clean.
Cannot absorb, leak or decay.
Not affected by heat or cold.
No seams to open. Very strong.
Over fifteen years on the market.
Warranted for thirty years against
injury violence excepted.
Thousands in use.
BEWARE OF IMITATIONS.

The Only PERFECT
SANITARY TUBS
in Existence.

STEWART CERAMIC CO.

312

PEARL STREET,
COR. PECK SLIP
NEW YORK.

259 WABASH AVENUE,
CHICAGO, ILL.

Three Highest Awards Columbian Exposition.



SOLID WHITE
CROCKERY

BUTLER'S
PANTRY, SLOP &

KITCHEN SINKS.

SAME MATERIAL AND STRENGTH AS TUBS.

REGAL

Porcelain Roll-Rim French Baths.

We have lately perfected arrange-
ments to import Solid Porcelain Baths
and will handle only the finest that
can be produced.

For cleanliness, beauty and health-
fulness they cannot be surpassed, and
for luxurious bathing they are simply
perfection.

Have you seen our new Catalogue A?
It's a beauty. Send for it.

HAINES, JONES & CADBURY CO.,
Mfrs & Importers High Class Plumbing Goods
1136 Ridge Ave., Philadelphia.

PROPOSALS.

August, 1894, and opened immediately thereafter in
presence of bidders, for furnishing and delivering at
the Building for the Library of Congress, in this city,
the following materials and work, namely: 1. The
ironwork and marble treads of winding stairways in
four towers and one straight stairway in the east main
pavilion erected in place complete. 2. Cut granite for
walls, parapets, steps, etc., of light blue color and fine
grain, for approaches. Specifications, general instruc-
tions and conditions and blank forms of proposal may
be obtained on application to this office. **BERNARD
R. GREEN,** Superintendent and Engineer. 974

Treasury Department, Office Supervising Architect,
Washington, D. C., August 10, 1894. Sealed proposals
will be received at this office until 2 o'clock P. M. on
the 7th day of September, 1894, and opened immedi-
ately thereafter, for all the labor and materials
required for the iron stairs, interior iron and copper-
work, etc., for the United States Custom-house and
Post-office at Newark, N. J., in accordance with the
drawings and specification, copies of which may be
had on application at this office or the office of the
Superintendent at Newark, N. J. Each bid must be
accompanied by a certified check for a sum not less
than two per cent of the amount of the proposal.
The right is reserved to reject any or all bids, and
to waive any defect or informality in any bid, should
it be deemed in the interest of the Government to do
so. All bids received after the time stated will be

PROPOSALS.

returned to the bidders. Proposals must be enclosed
in envelopes, sealed and marked "Proposal for the
Iron Stairs, Interior Iron and Copperwork, etc., for
the United States Custom-house and Post-office at
Newark, N. J.," and addressed to **JEREMIAH
O'ROURKE,** Supervising Architect. 974

Treasury Department, Office Supervising Architect,
Washington, D. C., August 10, 1894. Sealed proposals
will be received at this office until 2 o'clock P. M. on
the 6th day of September, 1894, and opened immedi-
ately thereafter, for all the labor and materials
required to put in place complete, all the plumbing,
gas-piping and electric-wire conduits for the United
States Post-office, Court-house, etc., building at
Charleston, S. C., in accordance with the drawings
and specification, copies of which may be had at this
office or the office of the Superintendent at Charleston,
S. C. Each bid must be accompanied by a certified
check for a sum not less than two per cent of the
amount of the proposal. The right is reserved to
reject any or all bids, and to waive any defect or
informality in any bid, should it be deemed in the
interest of the Government to do so. All bids received
after the time stated will be returned to the bidders.
Proposals must be enclosed in sealed envelopes, and
marked "Proposal for the Plumbing, Gas-piping, Elec-
tric-wire Conduits, etc., for the United States Post-
office, Court-house, etc., building at Charleston, S.
C.," and addressed to **JEREMIAH O'ROURKE,**
Supervising Architect. 974

Fireproof Building.**RARITAN HOLLOW AND POROUS BRICK CO.,**

MANUFACTURERS OF

Hollow Fire-Clay and Porous Terra-Cotta Bricks
of Every Description, for Fireproof Buildings.**BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.**

Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.

Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.

HENRY MAURER & SON,

Manufacturers of

FIRE-PROOF BUILDING MATERIALOf every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.
Porous Terra-Cotta, Fire-Brick, etc., etc.Works, MAURER, N. J. Office and Depot, 420 EAST 23d STREET, New York.
Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."**C. PARDEE**
WORKS,Manufacturers All Kinds Fireproof Building Materials, etc.
Perth Amboy, N. J. See ad. on page XVI.**PIONEER FIREPROOF****CONSTRUCTION CO.**

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile AND Porous Terra-Cotta**FOR FIREPROOFING BUILDINGS.**

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

**TO ARCHITECTS,
BUILDERS
AND OWNERS.**

Sample and Circulars Free.

MINERAL WOOL,As a Lining in Walls and Floors for preventing the
ESCAPE OF WARMTH AND THE DEADENING OF SOUND.**AMERICAN MINERAL WOOL CO.**

Lessee of

Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N.Y. City.

Roebling STANDARD Wire Lathing
FIREPROOF—DURABLE—ECONOMICALPays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures
a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three
public tests—detailed accounts of which will be mailed to any address upon request.**THE NEW JERSEY WIRE CLOTH COMPANY,
TRENTON, N. J.****Building Stones.****J. P. FALT & COMPANY,**

Quarrymen & Miners of

RED SANDSTONE.

Contractors for CUT-STONE WORK.

Proprietors of Carlisle Quarries, Springfield, Mass.
Prices for rough stone furnished on application,
and estimates made for cut-stone work to be delivered
at any railroad point. Correspondence solicited.
Send for samples.**BOSTON FIRE-BRICK WORKS.****FRONT BRICK**BUFF, BROWN, MOTTLED YELLOW,
GRAY, OLD GOLD AND
OTHER COLORS.**ARCHITECTURAL
TERRA-COTTA**

In all its varied colors and forms.

FISKE, HOMES & CO.,

MANAGERS,

Factories on Federal Street and
at South Boston.

Office, 164 Devonshire St., Boston.

Times Building, Park Row, New York.

927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.

SOLE OWNERS AND MANUFACTURERS OF

J. G. MERRILL'S PATENT

SALAMANDER

Fire-Proof Composition

FOR BUILDINGS.

Used as Lining between
Floors, and upon Walls,
Ceilings, Elevator and
Light Shafts, Boiler Rooms,
Doors, Shutters, etc. It is
Air, Dust, and Vermin
Proof, and a Sound-

Deadener.

Office, 166 Devonshire Street, BOSTON.

A. J. HODDER, Pres.
CHAS. T. HAKER, Treas.
W. D. LOMBARD, Gen. Mgr.Room 49 Master Builders
Association BuildingFor estimates on
**ASPHALT
WORK**of every descrip-
tion apply to Man-
ager,

T. Hugh Boorman,

N. Y. Mastic Works, 35 Broadway, N. Y.
Asphalt Mine Owners in France, Sicily, etc.**BROOKS, SHOEBRIDGE & CO.,****PORTLAND CEMENT.**Works: Grays, Essex, England.
New York Office: 7 Bowling Green**Massachusetts Material-Men and Contractors.**

ARTIFICIAL STONE.	FIREPROOFING.	HEATING CONTRACTOR.	PAPIER MACHÉ.
SIMPSON BROS. 166 Devonshire St. Boston, Mass.	BOSTON FIREPROOFING CO. 166 Devonshire St. Boston, Mass.	W. E. FLORENCE, 247 Pynchon St. Boston, Mass.	CONLAN & MAYBECK, 65 Warcham St. Boston, Mass.
BUILDING CONTRACTORS.	FURNACES.	IRON WORK. (Building)	PRINTING.
LITTLEFIELD BUILDING CO. Incorporated. Room 57, 166 Devonshire St. Boston, Mass.	CYRUS CARPENTER & CO. 44 Hanover St. Boston, Mass.	R. F. HAWKINS' IRON WORKS, Springfield, Mass.	S. J. PARKHILL & CO. 218-226 Franklin St. Boston, Mass.
CARVERS, MODELLERS.	GRANITE.	MANTELS. (Wood)	SASH CORD.
JOHN EVANS & CO. 77 Huntington Ave. Boston, Mass.	GRANITE RAILWAY CO. 166 Devonshire St. Boston, Mass.	J. W. BAILEY & SONS CO. 14 Charlestown St. Boston, Mass.	SILVER LAKE CO. 78 Chauncy St. Boston, Mass.
ELECTRIC WORK.	HEATING. (Air & Water)	MASON CONTRACTORS.	SLATE. (Roofing)
BLODGETT BROS. & CO. 383 Federal St. Boston.	MAGEE FURNACE CO. 30-8 Union St. Boston, Mass.	THOMAS J. LYONS, 166 Devonshire St. Boston, Mass.	H. H. MATHEWS, 178 Devonshire St. Boston, Mass.

Bricks and Terra-Cotta.

HYDRAULIC BRICK, PLAIN AND MOULDED OF ANY COLOR. RED, BUFF, GRAY, BROWN, PINK, MOTTLED, GRANITE.

Total Annual Capacity, 100,000,000.

HYDRAULIC-PRESS BRICK CO.,
OLD FELLOWS' BUILDING,
ST. LOUIS, MO.

PERTH AMBOY
TERRA-COTTA COMPANY,
— OF —

PERTH AMBOY, NEW JERSEY.

OFFICE, 289 Fourth Ave., New York.

PHILADELPHIA
OFFICE,
DREXEL BLDG.

BOSTON AGENTS,
WALDO BROS.,
88 Water Street.

TIFFANY PRESSED BRICK CO.,
Manufacturers of
Pressed and Enamelled Brick,
Plain and Ornamental,
403 Chamber of Commerce B'd'g,
CHICAGO.

BUILDING-BRICK.

YARDS at West Brimfield, Mass., on Boston & Albany R. R., and at Amherst, Mass., on Central Vermont R. R. (New London Northern Div.) and Boston & Maine R. R. (Central Mass. Div.).

CAPACITY, 7,000,000 Annually.

Address, MARCY & GARDNER,
PALMER, MASS.

"Architects" } **LAFARGE'S**
SPECIFY } **CEMENT**

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,

Importer and Sole Agent,

81 and 83 Fulton St., N. Y.

The Temporary Binder

Provided by us will keep your copies of the *American Architect* in PERFECTLY uninjured condition.

Price \$1.35 post paid.

FOR INFORMATION ABOUT U. S. MAIL CHUTES

WHICH ARE

A necessity in Office Buildings and Hotels,
write to the sole makers,

THE CUTLER MFG. CO., ROCHESTER, N. Y.
PATENTED. AUTHORIZED.

NEW YORK ARCHITECTURAL TERRA COTTA COMPANY.

OFFICE,
38 PARK ROW,
New York City.

WORKS,
LONG ISLAND CITY,
New York.

GENERAL AGENTS FOR NEW ENGLAND:
BOSTON FIRE BRICK COMPANY,
Fiske, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.

STEPHENS, ARMSTRONG & CONKLING,
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, - - - Philadelphia, Pa.

— INDIANAPOLIS — TERRA-COTTA CO.

Works: Brightwood, Ind.

ESTIMATES ON SPECIAL DESIGNS PROMPTLY
FURNISHED. WHITE FOR CATALOGUE
AND DISCOUNTS.

SEMI-GLAZE OR DEAD-FINISH.
ALL COLORS.

POMPEIIAN, BUFF AND RED PRESSED, ALSO ORNAMENTAL

FACE BRICK MANTEL.

CAPACITY, 100,000,000 PER ANNUM.

BRICK FIREPLACES

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

FRONT BRICKS AND TERRA-COTTA

— IN OVER TWENTY COLORS. —

Chimney Flue Linings, Chimney Tops, Drain
Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,
86 WATER STREET, - - BOSTON.

THE
Northwestern Terra-Cotta Co.
Manufacturers of

Architectural Terra-Cotta.

WORKS & MAIN OFFICE:
Cor. Clybourn & Wright-
wood Avenues.

CITY OFFICES:
Room 1118 Bookery Bldg.
cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for
Catalogue and Samples.

BRICK OF ANY COLOR AND OF ALL SHAPES.

FACE BRICK MANTEL.

CAPACITY, 100,000,000 PER ANNUM.

BRICK FIREPLACES

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

BALTIMORE ROOFING TILE CO.

BURNS, RUSSELL & CO., Proprietors,

535 Columbia Avenue, Baltimore, Md.,

MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other
styles of Clay Roofing Tiles in all colors,
glazed or unglazed.

CATALOGUE ON APPLICATION.



NO. 3 SPANISH



ROMAN

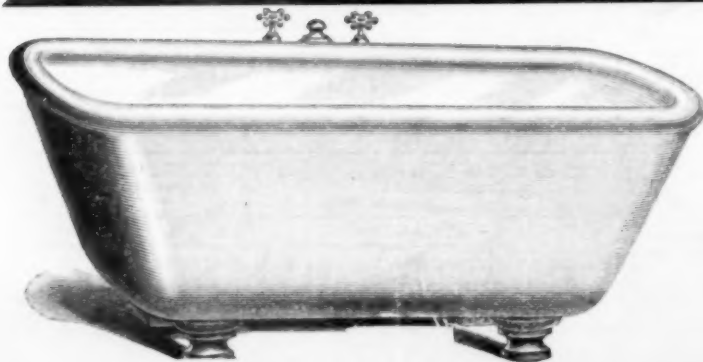
C. PARDEE WORKS, Perth Amboy, N. J.
MANUFACTURERS
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIREPROOF BUILDING MATERIALS, ETC.

THE GENUINE Taylor "OLD STYLE" brand OF ROOFING TIN.

The EFFORTS made to IMITATE the Genuine Taylor "Old Style" Brand of Roofing Tin is the best proof of the high esteem in which it is held. See that you get the Genuine. Remember that every sheet has our name and registered Trade Mark of Target and Arrow stamped upon it.

**N. & C. TAYLOR CO., Manufacturers,
PHILADELPHIA.**

Porcelain Bath Tubs



"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.

"SLUICE" Syphon Jet Water Closet.

MINTON'S TILES

For Bathrooms, Halls and Vestibules; Glazed,
Unglazed and Enamelled.

**MILLER & COATES, 279 PEARL STREET
NEW YORK.**

260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.

THE ONLY MEDAL AND AWARD FOR SHINGLE STAINS
At the World's Columbian Exposition
HAS BEEN AWARDED TO
DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.

PEERLESS COLORS FOR MORTAR.
BLACK, RED, BROWN, BUFF. NEW COLORS, MOSS GREEN, ROYAL PURPLE, FRENCH GREY, POMPEIAN BUFF
COLONIAL DRAB.
THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.
ALSO
PLASTER ARCHITECTURAL ORNAMENTS FROM ORIGINAL AND SPECIAL DESIGNS.
SAMUEL H. FRENCH & CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.

Conservatories,
GREENHOUSES,
VINERIES,
Shipped to any part of the country, and erected
complete, ready for use.
Plans embrace the latest improvements.
Unequalled facilities for manufacturing. Thirty-five
years' experience. Catalogue sent on application.
Address, stating requirements,
LORD & BURNHAM COMPANY,
IRVINGTON-ON-HUDSON, N. Y.



W. R. OSTRANDER & CO.,
204 Fulton Street, New York.
Manufacturers of
Speaking-Tubes, Whistles, Oral, Electric, Me-
chanical and Pneumatic Annunciators & Bells.
Complete outfits of Speaking-Tubes, Whistles, Electric,
Mechanical, and Pneumatic Bells. A full line always
in stock. Send for New Catalogue. Factory, De Kalb
Ave. near Knickerbocker, Brooklyn, N. Y.



DIXON'S GRAPHITE PAINT
FOR TIN OR SHINGLE ROOFS AND IRON WORK. Tin roofs well painted have not re-
quired repainting for 10 to 15 years.
IT IS ABSOLUTELY WITHOUT AN EQUAL.
If you need any paint it will pay you to send for circular.
JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

PASSENGER
AND
FREIGHT
ELEVATORS
Morse, Williams & Co.,
Electric and Hydraulic High Speed
Passenger Elevators.
Steam, Belt and Hand Power Freight Elevators.
1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.
19 Pearl St., Boston. 82 Church St., New Haven.
714 Omaha Building, Chicago. 1116 E. St. N. W., Washington, D. C.

THE MATTHEWS DECORATIVE GLASS CO.
MANUFACTURERS OF
ORNAMENTAL GLASS in Sheets or from Special Design
By the SAND-BLAST and other Patented processes.
CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,
Gold and Silver Embossed, and Transparent Glass Signs. Marbleized Glass
for Ceilings. Estimates promptly furnished on application.
338-330 E. 26th Street, New York City.

ALPHABETICAL LIST OF ADVERTISERS.

The (E) indicates that the advertisement may be found in the last or the following issue: the (M) that it may be found in the first issue for each month.

Table with 4 columns (A, E, K, P) listing various companies and their locations. Includes entries like Abol, C. C. & Co., Adair, C. & Co., and others.

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th St.
NEW YORK CITY.

Designers and Manufacturers of

MANTELS
OPEN FIREPLACES ..
GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 65 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.

PRIZE MEDALLISTS.

EXHIBITION OF 1862, 1866, 1867, 1872, 1873, AND ONLY AWARD AND MEDAL FOR NOISELESS, SELF-COLLING STEEL SHUTTERS AT PHILADELPHIA, 1876; PARIS, 1878; AND MELBOURNE, 1881.

CLARK, BUNNETT & CO. (Limited)

Late CLARK & COMPANY,

ORIGINAL INVENTORS AND SOLE PATENTERS OF NOISELESS

Self-Colling, Revolving **STEEL SHUTTERS** Fire & Burglar Proof.
Also Improved Rolling Wood Shutters, and Clark's Patent Metallic Venetian Blinds.

The BEST in the Market. Send for Catalogues, etc., to

162 and 164 West 27th St. - New York.

ALSEN'S

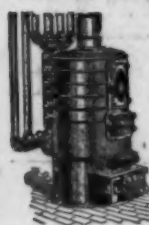
PORTLAND CEMENT

(GERMAN.)

The Strongest, Finest Ground and Most Uniform Cement Made in the World.

The Largest Works and Greatest Production.

U. S. OFFICE, 143 Liberty Street, NEW YORK.



HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.

We invite Correspondence.
Send for Catalogues.

HEAD
OFFICE:

Gurney Heater Mfg. Co.

SELLING AGENCIES.

JOHNSON & Co., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHSEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.



HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.

Endorsed by the leading
Architects and Engineers.

163 Franklin St., Cor.
Congress, Boston, Mass.



JAS. G. WILSON, Patentee and
74 West 23d St., New York.



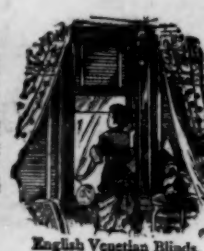
Rolling Steel Shutters.



Rolling Venetian Blinds.



Rolling Partitions.



English Venetian Blinds.

NJ. STEEL & IRON CO.,
TRENTON, N.J.

IRON AND STEEL BEAMS

CHANNELS, ANGLES & TEES

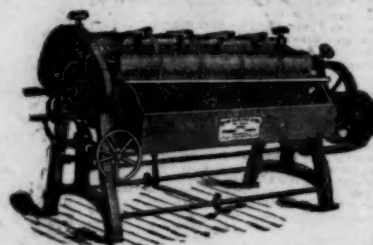
GOOPER, HEWITT & CO.
NEW YORK.

TROY LAUNDRY MACHINERY CO.

(LIMITED.)

FACTORIES: 648-650 Fulton St., Troy, N. Y.
306-405 Fifth Ave., Chicago, Ill.

SALESROOMS: 15 Warren St., New York.
581-683 Mission St., San Francisco, Cal.



Our line the largest and most complete in the world.

Send for Illustrated Catalogue Z.



WHEELER'S PATENT WOOD FILLER.

The only Article to give a

DURABLE, ECONOMICAL, NATURAL and PERFECT FINISH to HARD WOOD

Send for Pamphlet Giving Information on Finishing Hard Wood.

THE BRIDGEPORT WOOD-FINISHING CO., NEW MILFORD, CONN.

GRANVILLE M. BREINIG, General Agent and Superintendent. New York Office, 240 Pearl St. Chicago, 208 East Lake St.
New England Agents: Charles Richardson & Co., 85 & 89 Oliver St., Boston, Mass.

At the World's Fair, Chicago, 1893, as at every place ever exhibited, our WHEELER'S PATENT WOOD FILLER and BREINIG'S LITHOGEN SILICATE PAINT received medal and highest awards.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen. Agts.,

Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Masons' Materials.

Send for Pamphlet.

80-Paged Illustrated Catalogue
of over 250 Designs of
Superior

WEATHER VANES,
TOWER ORNAMENTS,
CHURCH CROSSES,
FINIALS, Etc., Etc.

Mailed to any address for 2-cent
stamp—half the postage.

T. W. JONES, Manufacturer,
170-172 FRONT ST., New York.

THORN'S

PATENT

METALLIC ROOFING,

Tiles and Spring-lock Shingles.

8 DESIGNS

The best, most handsome,
durable and secure roofing
plates yet offered to the
building trade. Indorsed
by all the leading archi-
tects. Send for catalogue.

**Thorn Shingle and
Ornament Co.,**

1227 Calumet St., Philadelphia.

THE AMERICAN ARCHITECT AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. XLV.—No. 975.]

SATURDAY, SEPTEMBER 1, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Ricker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE.
Louis De Coppel Berg.

PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.

COOPER INSTITUTE.
E. A. Miller.

INSTITUTE OF ARTIST-ARTISANS.
140 West 23d Street.
John Ward Stimson.

METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.

S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Truscott.

UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

[Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.]

CONSTRUCTION.

BERG, LOUIS D'G. Two Vols., each \$5.00
"Safe Building."

New York (66 Fifth Ave.): Macmillan & Co.

CHANDLER, F. W. \$10.00
"Construction Details."

Boston (211 Tremont St.): Heliotype Printing Co.

CLARK, T. M. \$3.00
"Building Superintendence." Cuts.

New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts, \$2.00 each.
"Architectural Rendering in Pen and Ink."

Boston (211 Tremont St.): Heliotype Printing Co.

WARE, WILLIAM B., PROFESSOR, \$5.00
"Modern Perspective."

New York (66 Fifth Ave.): Macmillan & Co.

STYLES.

GOTCH, J. A., and W. T. BROWN 6 Parts, \$48.00
Four Parts now ready.

"Architecture of the Renaissance in England."
New York (743 Broadway) Charles Scribner's Sons.

WHITTIER MACHINE CO.,

ELEVATORS,

53 STATE STREET - - BOSTON.

93 LIBERTY STREET, NEW YORK.

526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD

For all kinds of

PASSENGER AND FREIGHT ELEVATOR SERVICE.

OTIS BROTHERS & CO.,

NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,

ELEVATOR AND MACHINE WORKS,

COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.

STEAM AND HYDRAULIC,

For Freight and Passenger use.

ELECTRIC ELEVATORS.

THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,

For passenger and freight service.

Large experience. Many in use.

First cost moderate.

Running Expense much less than Hydraulic.

Also makers of low-speed Perret Electric Motors and Dynamos.

General office and factory, Springfield, Mass.

NEW YORK OFFICE, 126 Liberty Street.

BOSTON OFFICE, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES,

For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate.

References, Principal Architects and Decorators of New York.

AESCHLIMANN & PELLARIN.

37 CLINTON PLACE,

Between Broadway and University Place, New York.

SANITARY CONDITION OF

DWELLINGS examined by T. H. DUGGAN,

Plumber, 141 DARTMOUTH STREET, BOSTON.

Fine Plumbing Materials, First-class Workmanship.

Telephone call, Tremont No. 165.

SELECTED BY

LEADING BUILDERS,

The F. O. Norton Cement, as the Best Brand.

OFFICE, 92 BROADWAY, NEW YORK.

STANDARD ELEVATOR CO.,

HIGHEST GRADE

PASSENGER } ELEVATORS.
AND
FREIGHT }

OFFICE AND WORKS,

15th Street and Ashland Ave.,

Chicago, Ill.

PENN ELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.

PASSENGER AND FREIGHT ELEVATORS,

every description.

See our new Electric and Hydraulic before purchasing.

Works, Bloomsburgh, Pa.

Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.

GENERAL OFFICE, PALMER, MASS.

We contract to perform all labor and furnish all material of the different classes required to build complete

CHURCHES, HOTELS, MILLS, PUBLIC

BUILDINGS AND RESIDENCES.

Also for the construction of

RAILROADS, DAMS AND BRIDGES.

We solicit correspondence with those wishing to place the construction of any proposed new work

under ONE CONTRACT, which shall include all branches connected with the work. To such parties we will

furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO.,

STAINED GLASS & DECORATIVE WORK.

Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.

Sole Agents for

CLAYTON & BELL, GLASS STAINERS, LONDON.

61 Washington Square, South, New York, N. Y.

"TIFFANY GLASS & DECORATING COMPANY"

FURNISHERS & GLASS WORKERS DOMESTIC & ECCLESIASTICAL

DECORATIONS

MEMORIALS

333 TO 341 FOURTH AVENUE NEW YORK

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHERE & CO.),

Importers and Workers of

MARBLE, ONYX AND GRANITE,

425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

ROBERT C. FISHER & CO.,

Successors to FISHER & BIRD,

MARBLE AND GRANITE WORKS,

97, 99, 101 and 103 EAST HOUSTON STREET,

Established 1830.

NEW YORK.

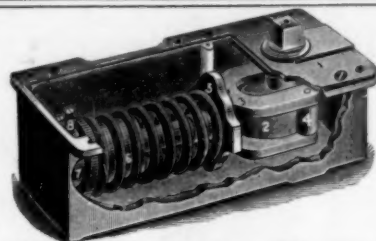
ARCHITECTS are employed to protect the interests of their clients; are paid to give them the benefit of their taste and practical knowledge—not only in design but in materials. In paints why not specify the brands of White Lead known to be

Strictly Pure White Lead

"ANCHOR" (Cincinnati).
 "ARMSTRONG & McKELVY" (Pittsburgh).
 "ATLANTIC" (New York).
 "BEYMER-BAUMAN" (Pittsburgh).
 "BRADLEY" (New York).
 "BROOKLYN" (New York).
 "COLLIER" (St. Louis).
 "CORNELL" (Buffalo).
 "DAVIS-CHAMBERS" (Pittsburgh).
 "ECKSTEIN" (Cincinnati).
 "FAHNESTOCK" (Pittsburgh).
 "JEWETT" (New York).
 "KENTUCKY" (Louisville).
 "JOHN T. LEWIS & BROS. CO." (Phila.)
 "MORLEY" (Cleveland).
 "MISSOURI" (St. Louis).
 "RED SEAL" (St. Louis).
 "SALEM" (Salem, Mass.).
 "SHIPMAN" (Chicago).
 "SOUTHERN" (St. Louis and Chicago).
 "ULSTER" (New York).
 "UNION" (New York).

To color Strictly Pure White Lead any desired shade, use National Lead Co.'s Pure White Lead Tinting Colors. Send to us for sample card and information about painting.

NATIONAL LEAD CO., New York.



Checking Spring Hinges,

For SWING DOORS.

APPLIED IN FLOOR UNDER DOOR.

They close the door gently, without noise or violence and stop it at once at the centre. Doors can not sag. Springs do not break or set.

J. BARDSLEY,

149-151 Baxter St., - NEW YORK.

Illustrated Price-list on application.



Unequaled for all purposes for which Portland Cement is used. Tests and Testimonials of Engineers, and "How to Use Portland Cement," sent free on application.

BUCKEYE PORTLAND CEMENT CO.,
 BELLEFONTAINE, OHIO.

RITCHIE'S PATENT
CORRUGATED EXPANDING CONDUCTOR.
 (See our advertisement last week.)
LAMB & RITCHIE, Cambridgeport, Mass.

GRAVES ELEVATORS
 SAFETY, SPEED AND ECONOMY COMBINED
 NEW YORK 92 & 94 LIBERTY ST.
 BOSTON 31 STATE ST.
 DETROIT HODGES BUILDING
 ATLANTA, GA. INMAN BUILDING
ROCHESTER, N.Y.
 SEND FOR CATALOGUE.

PORCELAIN LINED REFRIGERATORS
 and Cooling Rooms under the Wickes System.
 Mechanical Refrigeration under the Westinghouse System.
WICKES REFRIGERATOR COMPANY,
 860 Broadway, N. Y.

Drawing-Office.

Drawings rendered in line or color with reasonable despatch.

ADDRESS
 Editors of the American Architect.

ESTABLISHED 1853.

HOWSON & HOWSON,
 COUNSELLORS AT LAW,
 SOLICITORS OF PATENTS.

Philadelphia Offices: 119 South Fourth Street,
 New York: Potter Building, 38 Park Row,
 Washington, D. C.: 915 F. Street.

WOOD-CARPET
 THE VERY BEST MATERIAL FOR
BORDERS FOR RUGS

Also for Covering Parlors, Dining, Sitting and Bath Rooms, Libraries, Offices, Stairs, Stores, etc. Send stamp for Book of Designs.

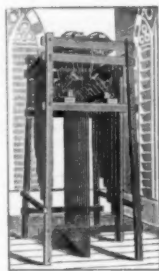
E. B. MOORE & CO., 48 Randolph Street, Chicago, Ill.

BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
Foundation:	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
Dimension.....	5 00 @ ton.	20 @		5 00
Block.....	4 60 @ perch.			Conschocken
Rubble.....	1 25 @ 1 50	8 50 @		1 45 @ 2 50
Bluestone: (P. sq. ft.)				
Sidewalk.....	30 @ 5 00	40 @ 1 75		1 in. th. 10 @ 25
Planned.....	50 @ 6 00	@ 75		37 @ 50
Sandstone:			1 50 @ cub. ft.	
Longmeadow.....	@ 80	80 @ 90	45 @ 50	
Kibbe.....	@ 90	90 @ 1 10	45 @ 55	85 @ 1 05
Brown (Connecticut).....	1 00 @	1 25 @ 1 45	55 @ 65	1 05 @ 1 25
Amherst Ohio.....	90 @ 95	90 @ 1 00	@ 1 25	85 @ 95
Berea.....	75 @ 1 00	85 @ 90		55 @ 75
Berlin.....	75 @ 1 00	80 @ 90		85 @ 95
Belleville.....	80 @ 1 25	25 @ 1 35		1 00 @ 1 10
New Brunswick (Dorchester).....	@ 1 00	175 @ 90		1 05 @ 1 15
Caen.....	@ 1 05	@ 2 00		1 25 @ 1 35
Carlisle, English.....	@ 1 05	@ 1 05	75 @ 1 00	95 @ 1 05
Corse Hill (Scotch).....	@ 1 05	@ 1 05	50 @ 1 00	95 @ 1 05
Marble: (P. cu. ft.)				
Lee, Mass.....	@	1 75 @ 2 50	Not Sold.	2 00 @ 2 50
Rutland, white and blue.....	@	@ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls.....	1 25 @ 1 75	@ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black.....	@	@	Not Sold.	4 00 @ 4 50
Italian, blue-veined.....	@	@	@ 4 40	2 50 @ 2 75
"Sienna.....	@	@	Not Sold.	@ 5 00
Tennessee, red.....	@	@	@ 4 40	4 00 @ 6 00
"Knoxville.....	@	@	@ 4 40	3 00 @ 4 00
Pennsylvania, blue.....	@	@	Not Sold.	2 00 @ 3 00
Vermont, white.....	@	@	3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (P. square)				
"green.....	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
"unfading.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
"purple.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
"red.....	@ 10 00	10 00 @ 11 00	12 00 @ 14 00	5 0 @ 10 25
"black, Lehigh.....	4 25 @ 4 75	@	6 25 @ 6 85	25 @ 4 00
"Chapmans.....	@	@	7 30 @ 8 00	00 @ 4 65
"Unfading black, Brownville, Me.....	6 00 @ 8 50	6 00 @ 8 50	6 80 @ 9 50	6 60 @ 8 60
"Monson.....	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
Tiles, Am..... P. M.	@	@	Not Sold.	@ 25 00
N. Peach Bottom, warranted unfading.....	@	@	@	6 00 @ 6 75
Fire Clay Roofing Tile on cars at factory.....	8 00 @	8 00 @	8 00 @	8 00 @
PAINTS. (In Oil P. lb.)				
White lead, Am.....	7 @ 7 1/2	6 @ 6 1/2	7 @ 7 1/2	@ 7 1/2
"zinc.....	5 @ 5 1/2	5 @ 5 1/2	5 @ 5 1/2	@ 5 1/2
Red lead, Am.....	6 1/2 @ 7	6 @ 6 1/2	6 1/2 @ 7	@ 7 1/2
"Venetian.....	6 @ 10 1/2	7 @ 12 1/2	6 @ 7	dry Eng. @ 7 1/2
"Vermilion.....	65 @ 70	60 @ 65 dry	65 @ 65	Eng. @ 7 1/2
"Indian, Eng.....	12 @ 20	12 @ 20	12 @ 20	dry Am. @ 15
Yellow Ochre.....	6 @ 15	7 @ 12	3 @ 15	@ 21
"Chrome.....	12 @ 20	18 @ 25	15 @ 25	" 15 @ 20
Green (chrome).....	8 @ 13	8 @ 20	8 @ 20	8 @ 12
Green, Paris.....	25 @ 40	25 @ 30	18 @ 35	10 @ 24
Black, lamp.....	15 @ 25	15 @ 25	8 @ 30	@ 60
Blue, ultramarine.....	12 @ 18	18 @ 30	12 @ 35	@ 63
Oil, linseed, (raw).....	55 @ 62	53 @ 55	57 @ 60	@ 44
"boiled.....	58 @ 65	58 @ 58	60 @ 63	125 @ 3 00
Turpentine.....	38 @ 37	@ 36	40 @ 42	150 @ 3 00
Varnish, coach.....	@	1 50 @ 6 00	1 25 @ 2 00	@ 24
Shellac.....	@	2 50 @ 3 00	2 25 @ 4 00	@ 1
Putty.....	2 @	@	2 @ 2 1/2	@ 2 1/2
Whiting.....	75 @ 1 00	1 @ 1 1/2	1 @ 1 1/2	@ 2 1/2
Paris white, (Eng.).....	1 30 @ 2 00	1 1/2 @ 2	1 1/2 @ 2	@ 2 1/2
Litharge, Am.....	5 1/2 @ 6	6 @ 6 1/2	6 @ 7	@ 7 1/2
Sienna (burnt).....	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber.....	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought).....	@ 2 85	@	2 35 @ 3 50	per keg @ 2 25
10d. common.....	@ 2 60	@ 2 00	@ 1 70	@ 2 30
Shingle.....	@ 3 35	@ 2 40	@ 2 10	@ 2 60
Lath.....	@ 4 85	@ 3 10	@ 2 80	3 60 @ 4 75
(Finishing nails according to size).....	@	@	Add .60 to \$1.30	per lb 4 @ 6
(For casing nails add 75 c. per keg).....	@	@	40 to .90	Add per cask
Butts: 4" x 4"..... (P. doz. pairs).....				2 90 (all kinds).
Plain.....	@ 1 00	@ 85	@ 90	@ 90
Japanned.....	@ 1 50	@ 1 25	Not Sold.	1 35 @ 2 00
Acorn, Japanned.....	@ 1 50	@ 1 50	2 00 @ 3 75	1 35 @ 2 75
Ball Tip, Boston Finish..... (P. pair).....	@ 65	@ 40	Not Sold.	48 @ 50
Bronze metal.....	@ 1 90	plain 1 25	2 00 @ 3 25	@ 1 25
Brass (for cupboards).....	@ 10	@ 10	@ 12	@ 1 00
Ebony.....	@	@	@	@ 35
Apple wood.....	@	@	@	37 @ 1 00
Knobs: (P. set.)				
Mineral, best.....	@ 8	@ 8	8 @ 10	@ 08
Lava.....	@ 50	@ 75	31 @ 40	Not Sold.
Hemacite.....	Not Sold.	17 @ 30	25 @ 30	25 @ 50
Porcelain.....	@ 50	@ 50	Not Sold.	1 00 @ 2 50
Glass, solid.....	Not Sold.	88 @ 1 00	@ 1 50	1 75 @ 2 00
Glass, silvered.....	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Bronze metal.....	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder.....	@	@	14 @ 16	13 @ 16
Sheet Lead.....	@	@ 64	@ 7	@ 64
Lead Pipe.....	@	@ 54	5 1/2 @ 6	@ 6
Iron:				
I-Beams, up to and including 30 ft.....	3 3-10 @ 34	@ 2 50	@ 2 50	@ 2 8-10
do. over 30 ft., 1/2 c. adv. for every 5 ft.....	3 8-10 @ 34	@ 2 50	2 50 @ 2 75	@ 2 8-10
Channel Beams.....			50 @ 2 75	@ 2 8-10

FOR INFORMATION ABOUT
U. S. MAIL CHUTES
WHICH ARE
A necessity in Office Buildings and Hotels,
write to the sole makers,
THE CUTLER MFG. CO., ROCHESTER, N. Y.
PATENTED. AUTHORIZED.



NATIONAL
Fine Art Foundry,
218 East 25th Street, New York.
Artists' Models cast in Standard Bronze
Architects' Designs Executed.
Artistic and Enduring Monuments
in Granite and Bronze.
No Catalogues.
MAURICE J. POWER.



TUBULAR
CHIME BELLS
Harrington Patents.
Established in England.
Introduced here.
Lighter in Weight
Sweeter in Tone
Cheaper in Price
Than the ordinary bell
Catalogue with full description.
U. S. Tubular Bell Co.,
Methuen, Mass.

MARKS' ARTIFICIAL LIMBS.
WITH RUBBER HANDS AND FEET,
The most comfortable, durable and natural.



Although a man may lose both of his legs he is not necessarily helpless. By having artificial legs applied, with rubber feet attached, he can be restored to his usefulness.
The engraving is from an instantaneous photograph of a man ascending a ladder; he has two artificial legs substituting his natural ones, which were crushed by a railroad accident and amputated. With his rubber feet he can ascend or descend a ladder, balance himself on the rungs, and have his hands at liberty. He can work at a bench and earn a good days wages. He can walk and mingle with persons without betraying his loss; in fact, he is restored to his former self for all practical purposes.
With the old method of complicated ankle-joints these results could not be so thoroughly attained.
Fifteen thousand in use, scattered in all parts of the world. Many of these have been supplied without procuring themselves to the maker, simply by sending measurements on a formula which any one can easily fill out.
Indorsed and purchased by the U. S. Government.
A treatise of 130 pages and formula for measuring SENT FREE.

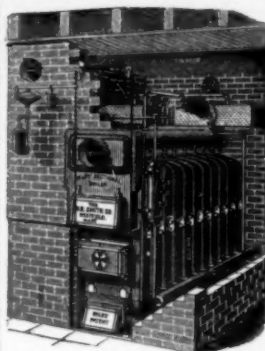
A. A. MARKS,
701 Broadway, NEW YORK CITY.
(Established 41 Years.)

THE GREAT
CHURCH
LIGHT
REFLECTORS FOR
OR OIL, GAS
ELECTRIC LIGHT
I. P. FRANK,
551 PEARL ST. N. Y.

Conservatories,
GREENHOUSES,
VINERIES,

Shipped to any part of the country, and erected complete, ready for use.
Plans embrace the latest improvements.
Unequalled facilities for manufacturing. Thirty-five years' experience. Catalogue sent on application.
Address, stating requirements,

LORD & BURNHAM COMPANY,
IRVINGTON-ON-HUDSON, N. Y.



Gold's Boiler.

The H. B. SMITH CO.,
MANUFACTURERS OF
HEATING APPARATUS
Steam and Water

For Public Buildings and Private Residences.

SPECIALTIES:
GOLD'S Improved Sectional Boilers.
MILLS'S Safety Sectional Boilers.
MERCER'S Patent Improved Sectional Boilers.
KEED'S Improved Cast-Iron Radiators,
"THE UNION" Hot-Water Radiators,
BRECKENRIDGE'S Patent Automatic Air Valves.
GOLD'S Indirect Pin Radiators.

Office & Warerooms, 137 Center Street, New York.
Foundry, Westfield, Mass. Catalogues sent on application.



HEATING.

STEAM AND HOT WATER.

The Architect, Steam Fitter, Plumber, and the General Public give our line of Heaters Preference on account of being Simple in Construction, Economical in Operation, Powerful and Rapid in performing their work.

Write for Descriptive Catalogue.

American Boiler Company

BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
195 Ft. Hill Sq. 94 Center St. 84 Lake St. 127 6th St.

NOTICE TO ARCHITECTS.



This cut shows the additional width, strength and beauty of an eave finished with a hanging, expanding Gutter hung with

"Berger's Favorite Hangers,"

now superseding every other device.

BERGER BROS.,
237 Arch Street, - PHILADELPHIA.

DIXON'S AMERICAN GRAPHITE PENCILS

FOR DRAUGHTING.

By mentioning *American Architect and Building News*, and sending 16 cents in stamps, you will receive an assortment of draughting pencils worth double the money, and unequalled for smooth, tough and uniform leads.

JOSEPH DIXON CRUCIBLE CO. - JERSEY CITY, N. J.

BUILDING MATERIALS.

Reported for the American Architect and Building News.

	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
LUMBER.—P. M.				
Boards: (Ordinary dimensions.)				
Pine, 1st quality, clear.....	65 00 @ 75 00	55 00 @ 70 00	42 00 @ 50 00	48 00 @ 55 00
" 2d quality.....	55 00 @ 60 00	42 00 @ 50 00	27 00 @ 38 00	40 00 @ 45 00
" 3d quality.....	18 00 @ 22 00	20 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce.....	25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock.....	ea 13 1/2 @ 14	10 00 @ 15 00	12 00	11 25 @ 13 50
Yellow pine.....	20 @ 40	23 00 @ 35 00	21 00 @ 34 00	14 00 @ 29 00
Cypress.....	28 00 @ 40 00		18 00 @ 34 00	16 00 @ 35 00
Clapboards:				
Pine.....	38 00 @ 55 00		19 00 @ 22 50	14 00 @ 25 00
Spruce.....	23 00 @ 38 00		Not sold.	Not sold.
Framing Timber:				
Pine.....	14 00 @ 18 00	14 00 @ 17 00	12 00 @ 17 50	25 00 @ 37 30
Spruce.....	12 00 @ 16 00	13 00 @ 15 00	10 00 @ 13 00	16 00 @ 18
Yellow pine.....	18 00 @ 21 00	20 00 @ 35 00	24 00 @ 34 00	13 00 @ 17
Laths:				
Pine.....	Slab	2 25 @ 2 50	@ 2 40	2 75 @ 3
Spruce.....	1 75 @ 1 80	2 00 @ 2 50	Not sold.	2 30 @ 3 00
Shingles:				
Pine, shaved.....P. M.	5 00 @ 6 00	@	Not sold.	
Pine, sawed.....	4 00 @ 5 00	@ 4 50	2 25 @ 2 50	
Spruce, sawed.....	1 50 @ 2 00	1 50 @ 00	Not sold.	
Redwood.....P. 125.	1 40 @ 1 60	3 25 @ 3 75	6 00 @ 7 50	{ 30" 35 @ 40
Cedar split.....P. M.	@	@	Not sold.	{ 24" 8 @ 21
Cedar sawed.....	@	2 00 @ 3 75	2 60 @ 2 75	{ 30" 35 @ 14
Cypress, Split.....7 x 24. "	18 00 @ 20 00	5 00 @ 6 00	3 50 @ 4 00	11 00 @ 14 00
Miscellaneous:				
Pine.....P. ft.	4 1/2 @ 5 1/2	Piles 6c. P. ft.	Cut to order.	
Fence pickets, Common.....	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 22 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts.)....	@	25 @ 50	9 @ 21	40 @ 1 25
Chestnut posts.....	@	25 @ 50	Not sold.	20 @ 30
Finishing Woods: P. M. (First)				
Ash.....(Qual. Kiln-dried.)	@ 55 00	45 00 @ 60 00	14 00 @ 30 00	42 50 @ 47 50
Cherry.....	80 00 @ 120 00	90 00 @ 120 00	35 00 @ 90 00	100 00 @ 120 00
Butternut.....	40 00 @ 60 00	60 00 @ 70 00	17 00 @ 35 00	70 00 @ 80 00
Hard-pine floors (rift).....		42 00 @ 50 00		
Mahogany, Baywood [Mexican].....	@ 180 00	160 00 @ 170 00	110 00 @ 170 00	150 00 @ 250 00
St. Domingo.....	@ 350 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Maple.....	45 00 @ 50 00	45 00 @ 50 00	12 00 @ 20 00	25 00 @ 55 00
Oak, red.....	@ 70 00	40 00 @ 50 00	17 00 @ 27 00	42 50 @ 55 00
" white.....	@ 70 00	45 00 @ 55 00	16 00 @ 28 00	45 00 @ 55 00
" quartered.....	@ 90 00	65 00 @ 75 00	34 00 @ 40 00	60 00 @ 75 00
Sycamore quartered.....		50 00 @ 65 00	25 00 @ 28 00	57 50 @ 65 00
Pine, clear.....	65 00 @ 70 00	50 00 @ 75 00	33 00 @ 50 00	@ 65 00
Redwood.....	60 00 @ 70 00	50 00 @ 70 00	40 00 @ 45 00	60 00 @ 75 00
Rosewood.....P. ft.	@ 6		per M. 600 00	
Spruce floors (clear, (kiln-dried).)		32 00 @ 35 00		
Walnut, black.....	125 00 @ 150 00	85 00 @ 120 00	40 00 @ 75 00	50 00 @ 170 00
Whitewood.....	45 00 @ 50 00	35 00 @ 45 00	14 00 @ 30 00	25 00 @ 40 00
Yellow pine.....P. M.	@ 45 00	40 00 @ 42 00	31 00 @ 34 00	@ 45 00

CLINTON WIRE-CLOTH CO.,

Sole Proprietors and Manufacturers of

WIRE LATH

DOUBLE TWIST WARP
STIFFENED (Iron furred)
CLINTON CORRUGAT'D

Plain, Japanned or Galvanized.

The Most Perfect and Economic System of FIREPROOF Construction.

SEND FOR CIRCULAR.

BOSTON, NEW YORK, CHICAGO, FACTORY,
199 Washington St. 76 Beekman St. 137 Lake St. CLINTON, MASS.



WORTHINGTON STEAM PUMPS

ARE THE STANDARD FOR

HYDRAULIC ELEVATOR AND HOUSE SERVICE.

Send for New Illustrated Catalogue.

Henry R. Worthington,

NEW YORK, 86 & 88 Liberty St.
BOSTON, 70 Kilby St.
PHILADELPHIA, 607 Arch St.
CLEVELAND, 24 South Water St.
CHICAGO, 185 to 189 Van Buren St.
ST. LOUIS, Eighth & St. Charles Sts.

Welded Chrome Steel and Iron. (5 ply)



We are the only manufacturers of Chrome Steel in the United States.

None genuine unless stamped with our Trade Mark.

FOR SAFES AND VAULTS

Positively Burglar-proof, cannot be Cut, Sawed, or Drilled,

CHROME STEEL WORKS, Brooklyn, N. Y.

BUILDING MATERIALS.

BRICK.—P. M.

Common: Cargo ahead.

Pale.....

Jersey.....

Long Island.....

Up River.....

Haverstraw Bay Id.....

" 1st.....

Hollow.....

Fronts:

Croton, Brown.....

" dark.....

" red.....

Chicago pressed (Anderson).....

" Moulded.....

Baltimore.....

Philadelphia.....

Trenton.....

Milwaukee.....

Moulded:

Glens Falls Red Pressed.....

" Buff.....

" Moulded Red & Buff.....

Enamelled: Imp.

Enamelled (edge).....

Enamelled (edge and end).....

CEMENT, LIME, etc.—(P. cash.)

Rosendale Cement.....

Louisville.....

Utica, Akron, Buffalo, Milwaukee, Portland, English (Gibbs).....

" (K. B. & S.).....

" " Black Cross.....

" " (Burnham).....

" " (White's).....

" French (Lafarge).....

" German (Alsen).....

" (Fewer).....

" (Vorwöhler).....

" (Lagerdofers).....

" (Dyckerhoff).....

" (Hancovers).....

" Stettin (Anchor).....

" American (Saylor's).....

Roman.....

Keene's coarse.....

" superfine.....

Lime:

Lime of Tell.....

Hydraulic Lime.....

Chicago Lime in bulk.....

Wisconsin Lime.....

Rockland and Rockport, (Com.).....

Rockland and Rockport, finish.....

Kelley Island Lime, finish.....

State, com. cargo rates (nom.).....

Plaster of Paris (calined).....

" (casting).....

Hair (Cattle) P bush.....

" (Goat).....

Sand, P load.....

STONE. (P cubic foot, rough.)

Granite: (Maine)

Limestone:

Bedford.....

Joliet.....

Lemont.....

Serpentine.....

New York.

(Wholesale

Prices.)

Prices

to Builders and

Imported.

Domestic Com.

8 50 @ 9 50

Domestic Face

18 00 @ 25 00

Philadelphia

35 00 @ 40 00

Phila. mould

50 00 @ 80 00

Enamelled B'k.

Imported.

Enam. (edge)

95 00 @ 105 00

" (edge & end)

115 00 @ 120 00

Domestic.

Enam. (edge)

90 00 @ 100 00

" (edge & end)

110 00 @ 115 00

Enamelled: Imp.

Enamelled (edge).....

Enamelled (edge and end).....

CEMENT, LIME, etc.—(P. cash.)

Rosendale Cement.....

Louisville.....

Utica, Akron, Buffalo, Milwaukee, Portland, English (Gibbs).....

" (K. B. & S.).....

" " Black Cross.....

" " (Burnham).....

" " (White's).....

" French (Lafarge).....

" German (Alsen).....

" (Fewer).....

" (Vorwöhler).....

" (Lagerdofers).....

" (Dyckerhoff).....

" (Hancovers).....

" Stettin (Anchor).....

" American (Saylor's).....

Roman.....

Keene's coarse.....

" superfine.....

Lime:

Lime of Tell.....

Hydraulic Lime.....

Chicago Lime in bulk.....

Wisconsin Lime.....

Rockland and Rockport, (Com.).....

Rockland and Rockport, finish.....

Kelley Island Lime, finish.....

State, com. cargo rates (nom.).....

Plaster of Paris (calined).....

" (casting).....

Hair (Cattle) P bush.....

" (Goat).....

Sand, P load.....

STONE. (P cubic foot, rough.)

Granite: (Maine)

Limestone:

Bedford.....

Joliet.....

Lemont.....

Serpentine.....

Boston.

(Wholesale

Prices.)

Prices

to Builders and

Imported.

Domestic Com.

8 50 @ 9 50

Domestic Face

18 00 @ 25 00

Philadelphia

35 00 @ 40 00

Phila. mould

50 00 @ 80 00

Enamelled B'k.

Imported.

Enam. (edge)

95 00 @ 105 00

" (edge & end)

115 00 @ 120 00

Domestic.

Enam. (edge)

90 00 @ 100 00

" (edge & end)

110 00 @ 115 00

Enamelled: Imp.

Enamelled (edge).....

Enamelled (edge and end).....

CEMENT, LIME, etc.—(P. cash.)

Rosendale Cement.....

Louisville.....

Utica, Akron, Buffalo, Milwaukee, Portland, English (Gibbs).....

" (K. B. & S.).....

" " Black Cross.....

" " (Burnham).....

" " (White's).....

" French (Lafarge).....

" German (Alsen).....

" (Fewer).....

" (Vorwöhler).....

" (Lagerdofers).....

" (Dyckerhoff).....

" (Hancovers).....

" Stettin (Anchor).....

" American (Saylor's).....

Roman.....

Keene's coarse.....

" superfine.....

Lime:

Lime of Tell.....

Hydraulic Lime.....

Chicago Lime in bulk.....

Wisconsin Lime.....

Rockland and Rockport, (Com.).....

Rockland and Rockport, finish.....

Kelley Island Lime, finish.....

State, com. cargo rates (nom.).....

Plaster of Paris (calined).....

" (casting).....

Hair (Cattle) P bush.....

" (Goat).....

Sand, P load.....

STONE. (P cubic foot, rough.)

Granite: (Maine)

Limestone:

Bedford.....

Joliet.....

Lemont.....

Serpentine.....

10 50 per ton

Chicago.

(Wholesale

Prices.)

Prices

to Builders and

Imported.

Domestic Com.

8 50 @ 9 50

Domestic Face

18 00 @ 25 00

Philadelphia

35 00 @ 40 00

Phila. mould

50 00 @ 80 00

Enamelled B'k.

Imported.

Enam. (edge)

95 00 @ 105 00

" (edge & end)

115 00 @ 120 00

Domestic.

Enam. (edge)

90 00 @ 100 00

" (edge & end)

110 00 @ 115 00

Enamelled: Imp.

Enamelled (edge).....

Enamelled (edge and end).....

CEMENT, LIME, etc.—(P. cash.)

Rosendale Cement.....

Louisville.....

Utica, Akron, Buffalo, Milwaukee, Portland, English (Gibbs).....

" (K. B. & S.).....

" " Black Cross.....

" " (Burnham).....

" " (White's).....

" French (Lafarge).....

" German (Alsen).....

" (Fewer).....

" (Vorwöhler).....

" (Lagerdofers).....

" (Dyckerhoff).....

" (Hancovers).....

" Stettin (Anchor).....

" American (Saylor's).....

Roman.....

Keene's coarse.....</

CABOT'S CREOSOTE SHINGLE STAINS



Loring & Phipps Arch'ts Boston



Summer Cottage
Thousand Islands
by J. P. Francis Esq.

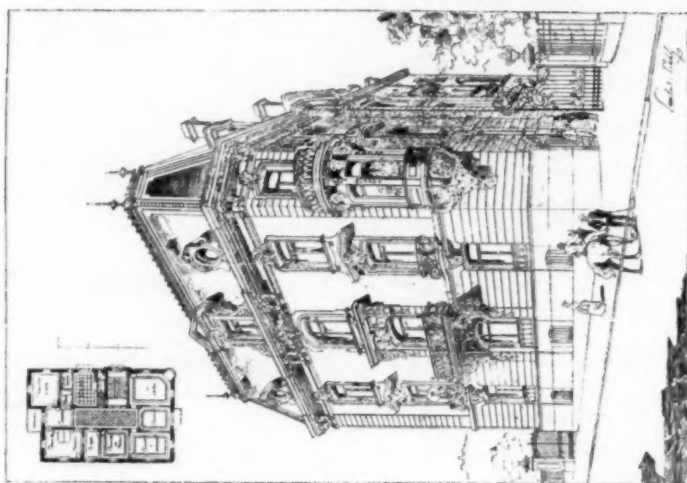
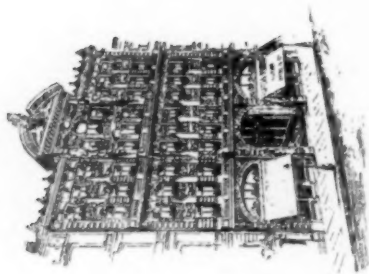


Don't specify paint for shingles; it isn't artistic. Don't specify a Stain that will turn black in a few years, because it looks dirty and you have to paint it over to change the color. Specify a stain that will hold its color and grow old gracefully—like Cabot's, which was the first shingle stain ever made, and is now, as always, first in durability, first in economy, and first in favor with those who have used it. *Every gallon guaranteed.*

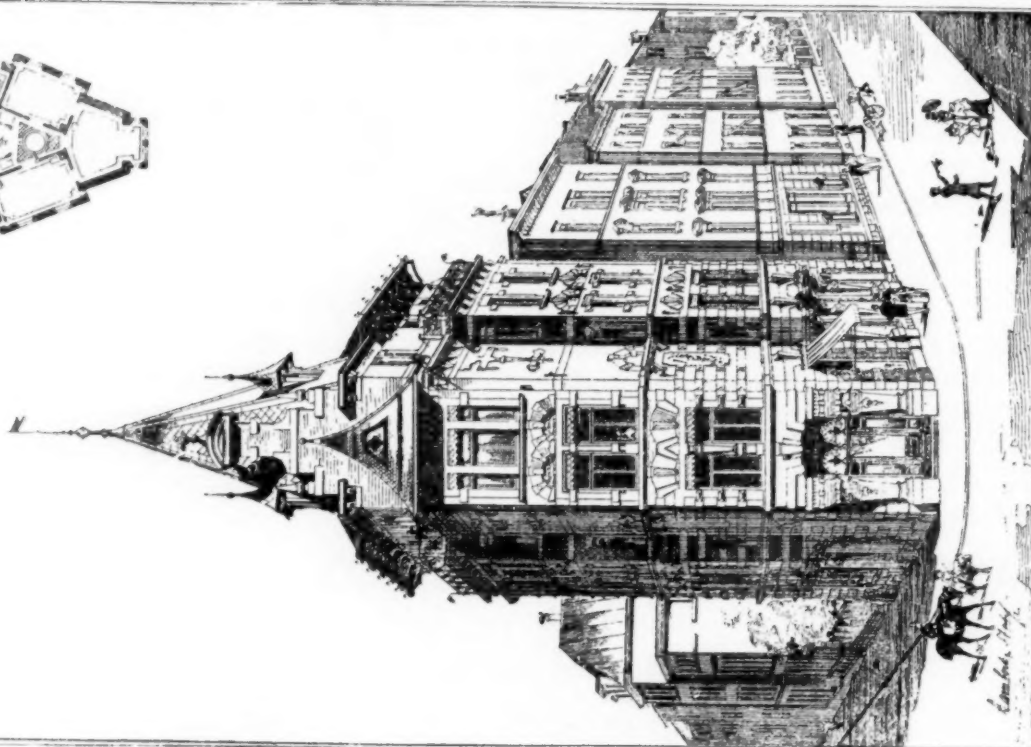
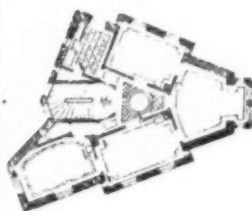
Large or small wood samples, circulars and water-color reproductions of color schemes, sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

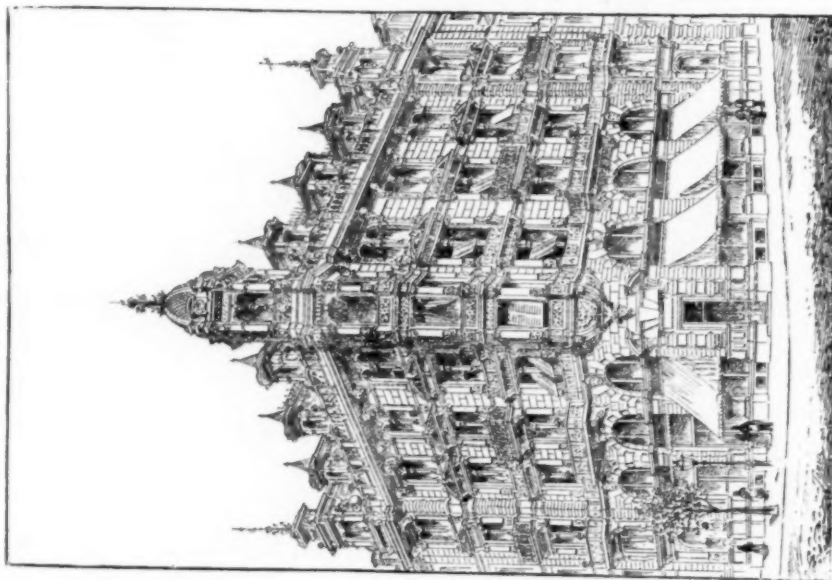
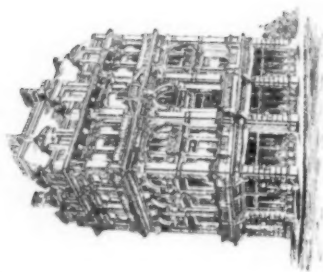
Agents at all Central Points. **70 Kilby St., BOSTON, MASS.**



House in Stuttgart.



House, Stuttgart.

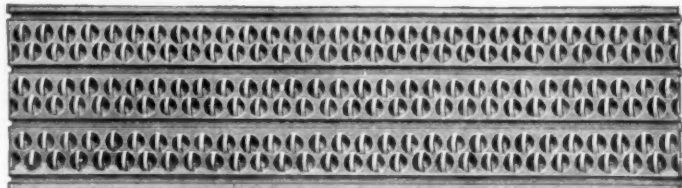


House, Zurich, Switzerland.

HOUSES



"Piqua" Steel Lath.



"Piqua" Lath is made from the best quality of steel, in sheets 27 1/4 x 48 inches, and each sheet covers exactly one square yard of surface. The corrugations shown in cut are 3 1/4 inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.

MERCHANT & CO., Incorporated,

Sole Manufacturers of the



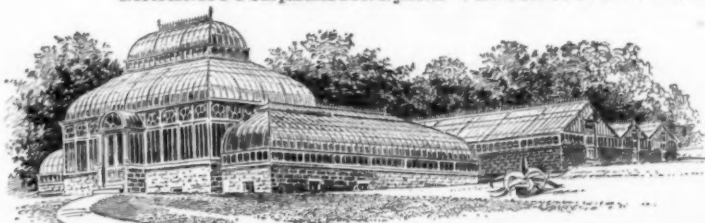
STAR VENTILATOR

MADE OF GALVANIZED OR LEAD-COATED SHEET-IRON, COPPER OR BRASS.

HITCHINGS & CO., Established 50 years.

HORTICULTURAL ARCHITECTS AND BUILDERS

and largest Manufacturers of GREENHOUSE HEATING AND VENTILATING APPARATUS.



Conservatories, Greenhouses, Palm Houses, etc., erected complete with our patent Iron Frame Construction. Plans and Estimates of cost and illustrated catalogues sent on application.

233 MERCER STREET, N. Y.

James A. Miller & Bro.

Slate
Tin
Tile and Iron

Roofers . . .

Galvanized Iron and Copper

Cornices, Bays
Skylights, etc.



Special Attention . . .
to Large First-class Work
Fully Guaranteed.

Our facilities, resources and experience are such that we feel able to compete for large work in our line, almost anywhere in the United States, and will be particularly pleased to do so now when there is so little work going on in this city.

129-131 South Clinton Street,
Chicago.

BLUE PRINTS Best Heavy French Paper 5 cents per square ft.
Spaulding & Moss,
63 State St., Boston, Mass

CHARLES I DEMANDING THE FIVE IMPEACHED MEMBERS.

From the painting by
JOHN SINGLETON COPLEY, R.A.,
IN THE BOSTON PUBLIC LIBRARY.

A few copies of the excellent heliotype made of this fine historical picture, 11 x 16 inches, printed on heavy plate paper, 22 x 28 inches, with key to the portraits, are for sale.

Price . . . \$3.00 each.

Sent carefully wrapped and postpaid, on receipt of price.

WALTER ROWLANDS,
211 Tremont Street, BOSTON.

McCULLY GLASS CO.

Manufacturers of

Stained & Beveled Glass,

MEMORIAL WINDOWS.

Special Designs Furnished upon Application.

346 and 348 Wabash Avenue,
CHICAGO, ILL.



WILKS WATER HEATERS
HOT WATER HEATERS
AND STEAM GENERATORS.
ALL STEEL. BEST IN USE.
For all Steam and Hot Water Heating.
SEND FOR CATALOGUE.

S. WILKS MANUFACTURING COMPANY,
123 So. Clinton Street, CHICAGO.

SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.**Slate, Copper, Tin and Gravel Roofing.****Nos. 20 and 22 EAST STREET, BOSTON.**Order Box at Master Builders Association,
164 Devonshire Street.Special attention given to Repairs
of all kinds.

Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs, acknowledged to be the strongest method in use, and has been applied to many of the best constructed and largest buildings in this country.

Contracts made for Work wherever desired.**ASPHALT ROOFING AND PAVING MATERIALS.**

WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.

Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO. 81 & 83 Fulton Street, NEW YORK, U.S.A.



THE JENKINS AUTOMATIC AIR VALVE has proved to be all we claimed for it, i. e., a Positive and Reliable Air Valve. The expansible plug is a special compound, and **MANUFACTURED EXPRESSLY** for use in the **JENKINS AUTOMATIC AIR VALVE**. It does not deteriorate or lose its flexibility under the action of heat or steam. With the Jenkins Automatic Air Valve, you should connect with a drip pipe, thus insuring a positive circulation. We guarantee them to be as represented. Our trade-mark is on every Valve.

JENKINS BROS., New York, Boston, Chicago, Philadelphia.**JACKSON VENTILATING GRATES**

will heat thoroughly two rooms 16 x 20 in zero weather. And the ventilation will be the best that can be secured by any system.

Send for Catalogue B.

EDWIN A. JACKSON & BRO., 50 Beekman Street, New York.**YALE LOCKS****BROWNVILLE MAINE SLATE COMPANY.**

Office, WORCESTER, MASS.

Unfading black roofing-slate. Strongest, toughest, most durable slate in the world. **Punching does not damage it.** It may be punched full of holes an inch or two apart without breaking. Drilled when desired.

Toughest
Slate,Fewest
Leakages.Oldest
quarry
in Maine.

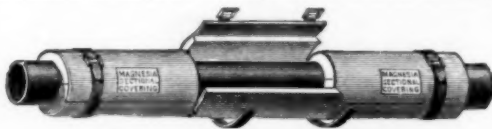
STATE LUNATIC ASYLUM, WORCESTER, covered with our Slate.

BLACKCROSS PORTLAND CEMENT

IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,IMPORTERS **ROMAN, KEENE'S, VICAT CEMENTS,** 23 Liberty Street, NEW YORK.
ENGLISH GLAZED BRICKS.

Absolutely



Fire-Proof.

**MAGNESIA**

SECTIONAL

STEAM PIPE AND BOILER COVERINGS.

THE GREAT COAL-SAVER.

SELLING AGENTS:

Boston, S. C. Nightingale & Childs, 134 Pearl St.
New York, Robert A. Keasbey, 54 Warren St.
Philadelphia, Macan & Co., 1429 Callowhill St.
Baltimore, Wallace & Bro., 432 E. Pratt St.
Washington, Wm. B. Morgan, Builders' Ex'c.
New Orleans, Delbert Engineering Co., 23 Union St.
Memphis, Symmes & Co., 192 Front St.

MANUFACTURED BY

THE KEASBEY & MATTISON CO.,CINCINNATI: AMBLER,
114 West Second St. PA.CLEVELAND:
117 Water St.

SELLING AGENTS:

Milwaukee, F. Sprinkman, 133 Sycamore St.
Louisville, W. W. Hite & Co., 176 Fourth St.
St. Louis, F. Boeler, 108 Walnut St.
Detroit, S. F. Conkling, 20 Atwater St., East.
Denver, C. W. Badgley & Co., 18th & Market Sts.
Salt Lake City, Utah & Montana Machinery Co.
Butte City, Mont., R. W. James.
San Francisco, DeSolia & Deussing, 2 California St.

ASPHALT FLOORS, ROOFS, SIDEWALKS AND CARRIAGE-WAYS

Of Public Buildings, Hospitals, Warehouses, Stables, Cellars, etc.

Laid with **VAL de TRAVERS ROCK ASPHALT**, DURABLE, FIREPROOF AND IMPERVIOUS.

For estimates and list of works executed, apply to

THE NEUCHÂTEL ASPHALT CO., Limited, 265 BROADWAY. - - - NEW YORK.**Brown's Patent Seamless DRAWN COPPER HOUSE BOILERS.**

Cannot collapse.

Will not leak.

Ordinary boiler tested to 200 lbs.

Extra heavy tested to 300 lbs.

Made of two seamless drawn copper shells.

Handsome, best and strongest in the market.

Send for circular giving instructions for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES, Waterbury, Conn.

Western Depot: 71 West Washington St., Chicago. Branch Offices: 104 John St., New York; Room 320 Philadelphia Bank Building, Philadelphia; 99 Milk St., Boston; Room 208, Neave Building, Cincinnati.

Proprietors of the Brown & Bros. Tubing and Boiler Works, and the Brown & Bros. Brass and Copper Rolling Mills.

Makers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

Chicago Interior Decorating Co.*Bank, Office & Club Equipments.***Mantels. Tiles. Ceramic Mosaics****FINE SPECIAL FURNITURE.**

Highest grade of first class goods.

Drawings and Estimates furnished upon application.

149 & 150 Michigan Ave., Chicago, Ill.

Formerly occupied by the **Henry Dibblee Co.****BLAKE BELL CO.**

Successors to Wm. Blake & Co.

Bell Founders and Brass Finishers.

Castings in any metal except iron.

Monumental Tablets, Artistic Brass Work.

Allen and Brighton Sts., BOSTON.

**J.W. TAYLOR'S PHOTOGRAPH SERIES.**

151 MONROE ST. CHICAGO 1 OF AMERICAN ARCHITECTURE.

Removed to Gwings Building.

Send two 5 cent stamps for Catalogue.

PARQUET FLOORS.**The National Wood Manufacturing Co.,**

129 5th Avenue, New York.

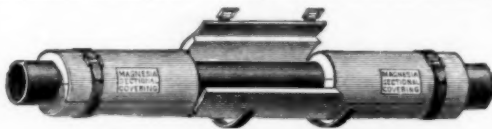
**WAINSCOTINGS AND CEILINGS.**

Inlaid Wood Floors 5-16 and

7-8 inch thick.

Solid work, Tongued and Grooved in each piece.

Designs & Estimates on application. Established 1867.



POINTS ON VARNISH.

NO. 269.—THE DIFFERENCE BETWEEN SELFISHNESS AND SELF-INTEREST.

A fine philosophical theory? Oh, no: a simple business fact; and a mighty good argument for the architect to use on the owner. Selfishness is to make as much as possible out of this particular job. Self-interest is to build up a good business reputation. The painter, on lowest bid, who selects his own varnish, is tempted to get all he can out of that contract. He may be a saint, but saints are not plentiful. The rule is to trust men who are working for, and are obliged to depend on, their business reputations. The self-interest of the varnish-maker is to merit the good opinion of the public. He cannot depend on shrewd bargains or any secret advantage; his entire success is bound up with his reputation for absolutely good work. He has already purchased the material on which he will not realize in ripened varnish until the year 1896. Bad work would kill his future. It is his reputation, constantly sustained and brightened, that sells his goods. That simple fact constitutes the policy of the

MURPHY VARNISH CO.
FRANKLIN MURPHY, President.

Head Office: Newark, N. J.
Other Offices: Boston, Cleveland, St. Louis, Chicago.
Factories: Newark and Chicago.

To ARCHITECTS:

If you desire to recommend a firm as one thoroughly capable of supplying *complete* furnishings for a hotel, club-house or private residence, you can mention us *with confidence*.

We supply CARPETS, RUGS, UPHOLSTERY FABRICS, FURNITURE, ETC., ETC.

Our goods are right; our prices are right.

We make a specialty of *private and exclusive patterns* which cannot be duplicated elsewhere.

John H. Pray, Sons & Co.,
658 Washington Street,
Opposite Boylston Street,
BOSTON.

F. W. DEVOE & CO.

(Established 1862.)

Fulton St., cor. William, New York.
No. 176 Randolph St., Chicago.

Pure Ready-mixed Paints.

We desire to call attention of consumers to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fireproof." We use no secret or patent method in manufacturing them by which benzine and water are made to serve the purpose of pure linseed oil.

Sample cards, containing fifty desirable shades sent on application.

FINE VARNISHES.

Hard Oil-Finish & Wood-Stains.

Illustrated Catalogue of Engineers' and Architects' Supplies, 250 pages, 700 Illustrations, on request.

White-Lead Colors in Oil and Japan.

THE DECORATIVE GLASS

In Abbey's Theatre, N. Y., and Keith's Opera House, Boston, are examples of Renaissance and Rococo designs, the movement, carried out entirely in our hard metal settings.

METALLIC SETTING CO.,
137 Weybosset St., PROVIDENCE, 5 Park Sq., BOSTON.

H. W. JOHNS' Liquid Paints

These Paints are composed of pure linseed oil and the highest grade of pigments. They are combined by processes exclusively our own and are unequalled by any in richness and permanency of color. One gallon will cover from 275 to 300 square feet, two coats without thinning and can be safely thinned with 1/2 gallon linseed oil to one gallon paint for first coat.

SAMPLE CARD OF DES. INSTRUCTIONS FOR USE AND SUGGESTIONS FOR PAINTING ETC. FREE BY MAIL.

New York, Jersey City,
Chicago, Philadelphia, Boston.

H. W. JOHNS MFG CO.

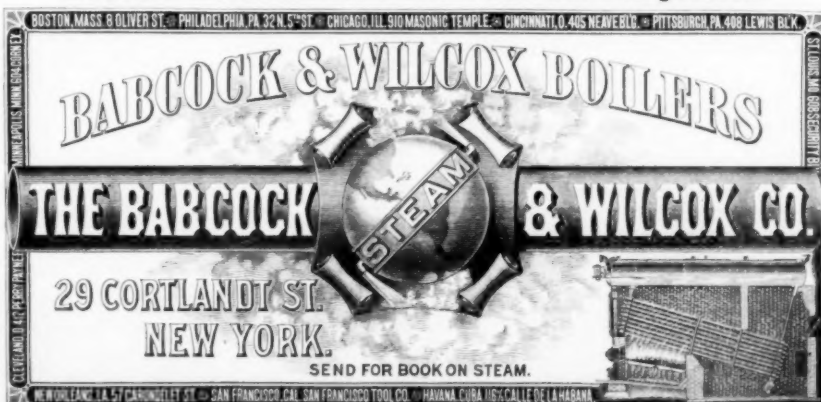


**STAMPED STEEL
CEILINGS**

MANY
DESIGNS
H. S. NORTHROP
Manufactures
30 ROSE ST.
NEW YORK

JOHN WILLIAMS, 544 to 556 West 27th Street, New York.
WROUGHT IRON AND BRASS WORK TO SPECIAL DESIGNS ONLY.
REFERENCES: Tiffany & Co., N. Y.; Cottier & Co., N. Y.; L. Marcotte & Co., N. Y.; McKim, Mead & White, N. Y.; Babb, Cook & Willard, N. Y.; Bruce Price, N. Y.; R. M. Hunt, N. Y.; Bailey, Banks & Biddle, Phila.; Frank Hill Smith, Boston.; A. H. Davenport, Boston.

Awarded the Grand Prize at the late Paris Exposition.



BABCOCK & WILCOX BOILERS

THE BABCOCK & WILCOX CO.

29 CORTLANDT ST.
NEW YORK.

SEND FOR BOOK ON STEAM.

NEW YORK, L.A., ST. CHARLES, ST. LOUIS, ST. FRANCISCO, CAL., SAN FRANCISCO, CAL., HAVANA, CUBA, 161 CALLE DE LA HABANA.

The American Architect and Building News Co.,
211 TREMONT ST., BOSTON, MASS.

Gloucester, Mass.—It is said that a syndicate will build an opera house.

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING, DREXEL BUILDING, MONADOCK BUILDING, DASHWOOD HOUSE,
NEW YORK. PHILADELPHIA. CHICAGO. LONDON.

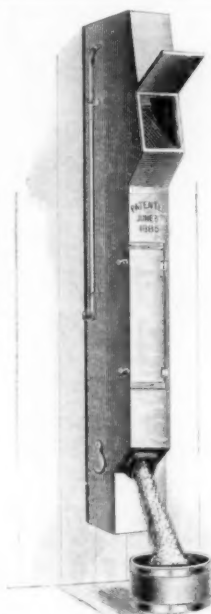


Announce to all who contemplate building or renovating
Hotels, Office Buildings or Residences, that they have
formed a department in their extensive works for

**Architectural Woodwork,
Fine Cabinet Work, and
Interior Finishing.**

Plans, designs, specifications and further particulars will be submitted on ap-
plication. Address **WORKS AT WILMINGTON, DEL.**

PAUL E. CABARET (Successor to SPADONE & CABARET),
BRONZE AND BRASS WORK OF ALL KINDS
For Banks, Churches, Mausoleums, etc. Doors and Gates a specialty.
Send for Catalogue. **Herring Building, Junction of 9th Ave. & 14th Street, New York.**



**Medal and Diploma
AWARDED THE
KASPER SELF-ACTING
... OATS CLEANER,**

BY THE
WORLD'S COLUMBIAN EXPOSITION.

In use in over 14,000 Stables.

Write for Testimonials and Prices.

THOMAS WHITFIELD,
369 Wabash Avenue,
CHICAGO, ILL.

Sole Owner and Manufacturer.
Any imitation or infringement of this
device will be promptly prosecuted.

BUILDING INTELLIGENCE.

(Advance Rumors Continued.)

Jamaica, N. Y.—A State Normal School is to be built here.
Lakewood, N. J.—M. B. Curtis proposes to build a hotel.
Mount Airy, Pa.—The Mount Pleasant Methodist Episcopal congregation is to have a \$50,000 church built on the lot at Sedgwick and Chew Sts.
Newark, N. J.—It is proposed to build a contagious diseases hospital, to cost \$20,000; a market building to cost the same.
Phillipsburg, Mont.—A school to cost \$30,000 will be built.
Salem, Mass.—The machine shop of the Boston & Maine Railroad, recently burnt, will be rebuilt.
Syracuse, N. Y.—It is proposed to build a new engine-house on Mulberry St.
Washington, D. C.—A public school-building will be built in the southeastern section.
West Bethlehem, Pa.—Alfred Krauskopf, of Bethlehem, will have a dwell. erected here.
Winona, Minn.—A Methodist Church, to cost \$45,000, is under consideration.

CHURCHES.

Boston, Mass.—Buena Ave., cor. Warren St., Ward 21, two-sty stone church, pitch roof, 65' x 154'; \$50,000; own., First Universalist Society; bld., Woodbury & Leighton; arch., E. M. Boyden, Worcester.
Eagle Grove, Ia.—A Catholic Church will be built; \$8,000; arch., J. P. Eisentrant, Boone.

FACTORIES.

Boston, Mass.—Federal St., rear, No. 304, six-sty brick building for manufacturing, flat roof, 48' x 80'; own., Jesse Tirrell; bld., Burnham & Davis.
Waterbury, Conn.—Bank St., four-sty brick factory building, mill construction, flat roof, 50' x 110'; own., American Ring Co.; bld., Tracy Bros. Co. & G. S. Chatfield; arch., W. E. Griggs.

HOUSES.

Baltimore, Md.—Nine three-sty brick dwells., w s Caroline St., n Lauvale St.; and 7 two-sty brick dwells., w s Hopkins Ave., bet. Townsend and Lauvale Sts.; own., Jas. W. Sindall, 1210 Homewood Ave.
Five two-sty brick dwells., e s Haubert St., bet. Beason and Clement Sts.; own., Anton Bohn, 1517 Nicholson St.
Eighteen two-sty brick dwells., s s Fayette St., beg. s e cor. Monroe St.; own., David C. Slonaker, 1810 Lorman St.
Three-sty brick dwell., w s Druid Hill Ave., bet. Retreat and Keussett Sts.; own., Chas. Knipp, 627 George St.
Two three-sty brick dwells. and 7 two-sty brick

BUILDING INTELLIGENCE.

(Houses Continued.)

dwells., w s Fulton Ave., n Clifton St.; own., Wm. Collett & Co., 1645 West Lauvale St.
Fourteen two-sty brick dwells., e and w s Sherwood Ave., w Hartford Ave.; own., C. A. Edwards, 1826 Federal St.
Two-sty double brick building, 807-809 Frederick Road, bet. 8th St. and Maiden Choice Lane; own., Theo. Blumenthal.
Two three-sty brick dwells., s s Merryman's Lane, e Cedar Ave.; own., Mrs. R. K. Quigley.
Boston, Mass.—Paul Gore St., near Centre St., Ward 23, frame dwell., 26' x 52'; own., J. J. Spring; bld., J. P. Campbell, 323 Lamartine St.
Paul Gore St., near Centre St., Ward 23, frame dwell., 26' x 62'; own., J. J. Kurnan; bld., J. P. Campbell, 323 Lamartine St.
Quincy St., No. 219, Ward 24, three-sty frame dwell., hip roof, 25.67' x 66.37'; own. and bld., Henry Ford, 219 Quincy St.
Dorr St., near Lambert Ave., Ward 21, 2 three-sty frame dwells., flat roofs, 24' x 51' each; own., Henry Weesling, 135 Thornton St.; bld., J. Luipold.
West Eagle St., No. 59, Ward 1, two-sty frame dwell., hip roof, 22' x 50'; own., W. H. Turner; bld., S. D. Fitch.
Berwick St., near Baker St., Ward 23, frame dwell., 25' x 50'; own., Michael Doyle; bld., S. W. Peterson.
Laural Ave., near Mountain Ave., Ward 24, frame dwell., 27' x 42'; own. and bld., J. E. Wilbur.
Mazwell St., near Capen St., Ward 24, three-sty frame dwell., flat roof, 24' x 44'; own., D. & J. W. Moran; bld., F. L. Carver.
Haver St., near Marion St., Ward 1, three-sty frame dwell., flat roof, 25' x 40'; own., Elizabeth McDunis; bld., J. McDunis.
Bloomfield St., near Bowdoin St., Ward 24, frame dwell., 25' 3/4' x 37' 4/4'; frame dwell., 25' x 37'; frame dwell., 25' x 30'; frame dwell., 25' x 30'; frame dwell., 30' x 40.6'; frame dwell., 25' x 37.6'; \$5,000 to \$7,000 each; own. and bld., J. I. Stewart, 53 State St.
Walnut Ave., cor. Ruthven St., Ward 21, frame dwell., hip roof, 25' x 54' 6"; own., Mrs. A. F. White; bld., C. H. Blodgett.
Linden Ave., near Lamont St., Ward 19, frame dwell., 28' x 47'; own., Philip Dorr; bld., Peter Schneider.
Berlett St., near Walter St., Ward 23, frame dwell., 27' x 44' 10"; own., E. F. Turner; bld., J. H. Bryant.
Cobden St., near Washington St., Ward 21, 2 three-sty frame dwells., flat roofs, each 23' x 52'; own. and bld., J. J. Johnston.
Montclair St., cor. Houston St., Ward 23, three-sty frame dwell., pitch roof, 28' x 34'; own., W. J. Corvill; bld., M. A. Blanchard.
St. Botolph St., Nos. 160 to 176 inclusive, Ward 11, 9 three-sty brick dwells., flat roofs, 22' x 53'; own., J. B. Kendall et al; bld., J. H. Mullen.

ARCHITECTURE



DIPLOMAS AWARDED. Courses in other trades, all including thorough instruction in Mathematics and Physics. Send for FREE circular stating subject you wish to study to **The Correspondence School of Industrial Sciences, Scranton, Pa.**



H. C. CHARLES & CO., 53 Dearborn St., CHICAGO.

BUILDING INTELLIGENCE.

(Houses Continued.)

Bower St., near Humboldt Ave., Ward 21, 3 three-sty brick dwells., 20' x 40' each; own. and bld., O. E. Furler.
St. Botolph St., Nos. 23-37, Ward 11, 5 three-sty brick dwells., flat roofs, 22' 4" x 42'; own. and bld., J. J. Sharp.
Brookline, Mass.—Harvard St., two-and-one-half-sty frame dwell., hip roof, 38' x 40'; own., H. H. Hamilton; bld., J. C. Gowan; arch., O. F. Smith.
Brooklyn, N. Y.—Cornelia St., n s, 100' w Central Ave., 13 two-sty and basement frame dwells., tin roofs, 20' x 45'; \$2,500 each; own. and bld., E. E. Kelly, 713 Gates Ave.; arch., Henry Vollweiler, 483 Hart St.
Cambridge, Mass.—Francis Ave., two-and-one-half-sty frame dwell., pitch roof, 48' x 50'; \$12,000; own., John Graham Brooks; bld., J. Nesbitt; arch., C. H. McClure, 613 Main St., Cambridge.
Fayerweather St., near Brattle St., two-and-one-half-sty frame dwell., hip roof, 44' x 50'; \$10,000; own., Mrs. Nellie J. Morrison; bld., Wellington Fillmore & Co.; arch., C. H. McClure.
Hartford, Conn.—Vernon St., two-sty brick dwell., 25' x 53'; own., Thomas Evans.
Farmington Ave., three-sty brick dwell., 52' x 24'; own., Augustine L. Ellis.
Garden St., frame and brick dwell., \$8,500; own., Henry P. Hitchcock; arch., Willis E. Becker; contracts are let.
Clark St., No. 80, two-sty frame dwell., 23' x 44'; own., Annie M. Cairns.
Kenyon St., two-sty frame dwell., 29' x 39'; own., Joseph Waite.
Broad St., two-sty frame dwell., 24' x 48'; own., Mrs. Waters.
Farmington Ave., No. 579, two-sty brick and frame dwell., 35' x 50'; own. and bld., A. W. Seoville.
Milton, Mass.—Brook Hill Road, two-and-one-half-sty frame dwell., gambrel roof, 31' x 47'; \$5,500; own., Mrs. J. A. Beal; bld., Jonathan Crow; arch., W. R. Emerson, 131 Tremont St., Boston.
Naugatuck, Conn.—Frame dwell., \$8,000; own., F. W. Toller; arch., W. E. Griggs, Waterbury.
Frame dwell., \$6,000; own., Geo. C. Ham; arch., W. E. Griggs, Waterbury; contract not let.
New London, Conn.—North Main St., frame dwell., \$3,500; own., B. H. Hillar; arch., Dudley Donnelly; contract not let.
West St., frame dwell., \$4,500; own., Perry & Stone; arch., Dudley Donnelly.
Newton Centre, Mass.—Sumner St., two-and-one-half-sty frame dwell., pitch roof, 30' x 30'; ell, 6' x 17'; \$6,000; own., Dudley & Shaw; bld., A. H. Roffe; arch., Rand & Taylor, Boston.
Two-and-one-half-sty frame dwell., hip roof, 28' x 34'; ell, 6' x 17'; \$6,000; own., Wm. F. Harback; bld., A. I. English & Son; arch., Rand & Taylor, Boston.
Lake St., two-and-one-half-sty frame dwell., hip roof; own., Mrs. L. E. Shannon; bld., D. Hurley; arch., O. F. Smith.
Newton, Mass.—Crafter Road, Waban Village, two-and-one-half-sty frame dwell., gambrel roof, 30' x 42'; ell, 12' x 18'; \$8,000; own., W. R. Knight; bld., William Pettigrew, West Newton; arch., Rand & Taylor, Boston; contract let.
Philadelphia, Pa.—Cura St., No. 1330, two-sty brick dwell.; own., Alexander Purvis; con., Thos. H. Marshall, 413 Locust St.
Crescon St., w Fisk St., 4 two-sty brick dwells.; con., John Smith, Clearfield and 33d Sts.
East Cumberland St., No. 2351, three-sty brick dwell.; con., Wilson Milnor, Allen and Penn Sts.
Ditman St., w s, n Magee St., two-sty brick dwell.; con., Wilson Milnor, Allen and Penn Sts.
Janney St., No. 3554, two-sty brick dwell.; bld., Samuel Smith, 851 South 51st St.
De Lancey Pl., No. 1824, four-sty stone and brick dwell.; about \$10,000; own., H. La Barre Jayne; con., John Duncan, 905 Chestnut St.
Edgemont St., s w Leiper St., 2 two-sty brick dwells.; con., John Crosta, Emery St., Bridesburg, Pa.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,

BEAMS, CHANNELS, ANGLES, ZEEs, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.

Round, Square and Flat Bars
of all sizes.

SPECIALTIES:

PHENIX COLUMNS AND UPSET EYE-BARS
Of all sizes, in Iron or Steel.

ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.

AGENTS:

New York: EDWARD CORNING & Co., 29 Broadway.
Chicago: A. C. STILES, 331 Rookery Building.
Boston: EDWARD CORNING & Co., 70 Kilby Street.

PASSAIC ROLLING MILL CO.,

PATERSON, N. J.

STEEL BEAMS

4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

NEW YORK OFFICE, - - 43 BROADWAY

J. S. THORN CO.

Architectural Sheet-Metal Works.

Metal Building Trimmings, Ventilating Skylights
Metallic Roofing Tiles, Building Specialties, Builders
Light Iron Work of every description.

Nos. 1325 to 1329 Callowhill Street,
PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Houses Continued.)

Manayunk Ave., w. s. s. Osborne St., three-sty brick dwell.; own., Mrs. S. W. Hill, 143 Kalos St.
Queen St., w. Scotts Lane, 2 three-sty brick dwell.; bld., John P. Neil, 5 West Coulter St.
Eighty-fifth and South Sts., two-and-one-half-sty brick dwell.; con., George B. Heath, Erwig Ave. and 88th St.
Eighteenth St., s. Millin St., 3 two-sty brick dwell.; 28' x 43'; bld., John C. Gallagher, 1741 Moore St.
Forty-third-and-a-half St., No. 872, two-sty brick dwell.; 28' x 39'; bld., G. Richardson, Berks St. and Ridge Ave.
Twenty-sixth St., e. s. s. Spruce St., three-sty brick dwell.; con., Alexander Ewing, 1825 Lombard St.
Rush St., e. 23d St., two-sty brick dwell.; 28' x 45'; bld., Samuel Morrison, 3635 North 5th St.
Ridge Ave., near Spencer St., three-sty brick dwell.; 28' x 42'; con., E. A. Roth, 2331 North 25th St.
South Tenth St., Nos. 926-8, 2 three-sty brick dwell.; con., A. Donato & Co., 1005 South 8th St.
Montgomery Ave. and Eighteenth St., 3 three-sty stone and brick dwell.; arch., Charles W. Bolton, 1510 Chestnut St.

Somerville, Mass.—Prospect Hill Ave., frame dwell.; own., E. Seely, bld., John Quin.
Burnside Ave., frame dwell.; own., Geo. H. Benjamin; bld., Sherriffs & Grant.
Moreland St., frame dwell.; own., Mrs. Julia M. Hynar; bld., Robert Bennett.
Cherry St., frame dwell.; own., Walter C. Meutzer; bld., Ricker & Gray.
Bolton St., frame dwell.; own., Mrs. Clark; bld., Belden Bros.
Stuckney Ave., frame dwell.; own., John S. Nason; bld., Abbott & Boyer.

Springfield, Mass.—Pearl St., two-and-one-half-sty frame dwell., colonial style; \$10,000; own., Harlan P. Stone; bld., Geo. M. Burnham; arch., B. H. Seabury.

West Newton, Mass.—Otis St., two-and-one-half-sty frame dwell., hip roof, 29' x 49'; ell, 7' x 27'; \$8,000; own., E. B. Wilson; bld., Ernest T. Wilson, Natick; arch., Rand & Taylor, Boston.

MERCANTILE BUILDINGS.

Torrington, Conn.—Three-sty pressed brick and granite block, flat roof, 47' x 75'; own., Coe Furniture Co.; bld., Hotchkiss Bros. & Co.

OFFICE-BUILDINGS.

Baltimore, Md.—Herald Publishing Co., seven-sty office building, n. w. cor. Fayette and St. Paul Sts.; arch., Jos. E. Sperry, Central Savings Bank Building, s. e. cor. Charles and Lexington Sts.

New Haven, Conn.—Orange St., No. 85, six-sty brick store and office building, flat roof, 50' x 110'; \$75,000; own., Estate of F. Winchester; bld., Geo. M. Grant Co.; arch., L. W. Robinson.

Pittsfield, Mass.—Six-sty pressed brick and sandstone bank and office building, fireproof construction; own., Berkshire County Savings Bank; arch., Francis R. Allen, Boston; contract not let.

Springfield, Mass.—Worthington St., cor. Dwight St., six-sty brick and stone store, office and tenement building, flat roof; \$30,000; own., Andrew Whitney, Fitchburg.

PUBLIC BUILDINGS.

Lowell, Mass.—Three-sty brick and stone County Court-house, flat roof, 60' x 200'; \$200,000; own., Middlesex County; arch., Wait & Cutler, 85 Milk St., Boston; contract not let.

Peoria, Ill.—The architect of the new city hall, to cost about \$115,000, is William H. Miller.

Iron-Work.

JACKSON ARCHITECTURAL IRON WORKS,

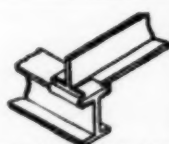
ESTABLISHED 1840.

IRON

Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams, Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze. Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts.

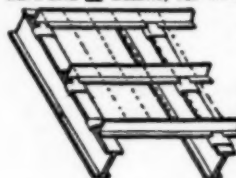
Office, 315 East 28th St., New York.



H. A. Streeter's Patent Clip



ARCHITECTS, OWNERS, CONTRACTORS, and all others interested in Iron or Steel construction will please note that I have PATENTED A STEEL CLIP for connecting Angle or Tee bars to I Beams, etc., which reduces the expense one-half, and does away with the old method of Drilling and Bolting, which is a great saving of Time, besides allowing an easy method of adjusting Tee bars to any desired width of Tilt. (This method is now adopted by our principal contractors). Clips furnished ready to apply by sending the Sections and weight of Tee Bars and I Beams, for which connections are wanted.



FOR PRICES AND FURTHER INFORMATION

APPLY TO STREETER

Globe Iron Works,

35-41 E. INDIANA STREET,

CHICAGO, - - - ILL.



ORNAMENTAL

IRON WORK

PRISMATIC

LIGHT WORK



DAUCHY IRON WORKS
84-92 ILLINOIS STREET
* CHICAGO *

BUILDING INTELLIGENCE.

STABLES.

Boston, Mass.—West First St., bet. E and F Sts., Ward 14, two-sty frame stable, flat roof, 32' x 50'; own., Ira L. Morse; bld., H. S. Clark, 171 East 8th St.
Freeport St., cor. Pierce Ave., Ward 24, one-sty frame stable, flat roof, 18' x 47'; own., Mrs. A. Dinsmore; bld., J. H. Vickery & Son, 17 Otis St.
Bellevue St., No. 171, Ward 22, one-sty frame stable, pitch roof, 30' x 49'; own., M. M. Windom, 92 State St.; bld., H. J. Lyon.
A St., No. 244, Ward 13, two-sty frame stable and office, flat roof, 30' x 43'; own. and bld., C. A. Dodge, 326 Albany St.
Boylston Terrace, rear, near Centre St., Ward 23, frame stable, 18' x 27'; own., Mary Donlan; bld., J. L. Dakin.
Birch St., cor. Corinth St., Ward 23, one-sty brick stable, 75' x 100'; own., G. H. Cobleigh.

Brookline, Mass.—Two-sty frame stable, pitch roof, 35' x 64'; \$6,000; own., W. S. Rogers; bld., Bailey; arch., W. R. Emerson, Boston.
St. Mary St., two-sty frame stable; own., T. D. Baker; bld., F. J. Dower; arch., W. R. Emerson, Boston.

Somerville, Mass.—Adams St., frame stable; own., Eugene Seig; bld., Wm. Sanby.
Willow Ave., cor. Summer St., frame stable; own. and bld., Bernard Rice.

STORES.

Boston, Mass.—Fayette and Bay Sts., four-sty brick store and apart., flat roof, 25' x 35'; own., Gulliver Estate; bld., Chas. S. Woodman; arch., Rand & Taylor, 87 Milk St.

Brooklyn, N. Y.—Third Ave., n. e. cor. 50th St., four-sty brick store and dwell., tin roof, 20' x 65'; \$6,500; own., Dr. F. P. Hogan, 641 Third Ave.; arch., H. L. Spicer, 1106 Third Ave.

Third Ave., e. s. 42' x 58th St., four-sty brick store and dwell., tin roof, 18' x 56'; \$6,000; own., S. T. Hatch & Co., 50th St. and 4th Ave.; arch., H. L. Spicer, 1106 Third Ave.

THEATRES.

Roone, Iowa.—J. P. Eisentraut is the architect of the new opera-house, to be built at a cost of \$25,000.

BUILDING INTELLIGENCE.

MISCELLANEOUS.

Belleville, N. J.—A hose-house will be built on Cortlandt St.; H. Galloway Ten Eyck, architect.

Boston, Mass.—Washington St., near Boylston St., Ward 23, six-sty brick brewery, flat roof, 91' x 112' x 115'; and two-sty boiler-house, 41' x 61'; \$250,000; own., Franklin Brewery Co.; arch., Chas. Kaestner & Co., Chicago; contract not let.

Brooklyn, N. Y.—Melrose St., n. s. 108' w. Central Ave., two-sty brick carriage-house, cement roof, 27' x 50'; \$5,000; own., J. Adam Epig, Central Ave.; arch., Th. Engelhardt, 995 Broadway.

Camden, N. J.—Federal St., s. s. bet. Haddon Ave. and Broadway, plans have been prepared by Moses & King, arch. 431 Walnut St., Philadelphia, Pa., for a gymnasium building for the Camden Young Men's Christian Ass'n; it will be three stories high.

Fairmount, Minn.—The Masonic Block to be built will cost \$10,000; arch., F. W. Kinney, Austin.

New Orleans, La.—Four-sty brick and terra-cotta building, 47' x 160'; own., Y. M. C. A.; arch. and bld., George L. Decker & Son.

Newton Centre, Mass.—Centre and Pleasant Sts., Ward 6, three-sty brick post-office, stores and aparts., flat roof, 53' x 79'; \$30,000; own., Newton Centre Associates; bld., M. S. & G. N. Miller, Boston; arch., Rand & Taylor, Boston.

Pipestone, Minn.—The accepted plans for the new jail are by Albert Bryan, Duluth.

COMPETITIONS.

MUSEUM OF ANTIQUITIES.

[* Cairo, Egypt.] The Egyptian Government have decided to put into competition the supply of the best project for building a museum for the Egyptian Antiquities in Cairo.

Architects of all nations are admitted to compete. The amount allotted for this purpose is ££ 120,000. Awards will be given to the authors of the best projects: the first being fixed at £600 and the next four will have a sum of ££ 400 divided amongst them.

The projects should reach Cairo at latest on the 1st March, 1895, at noon.

The programme of this competition will be supplied

THE J. L. MOTT IRON WORKS,

84 to 90 Beekman Street, New York.

311 and 313 Wabash Avenue, Chicago.

322 and 324 Boylston Street, Boston.

Wainwright Building, St. Louis.

Flood Building, San Francisco.



Copyright, 1893, by THE J. L. MOTT IRON WORKS, in their publications. Plate 1087G. (Reduced cut.)

FINE appearance, durability, and perfection from a sanitary standpoint are all combined in these baths. They entail no labor, scouring or burnishing, requiring merely to be wiped out with a sponge to be thoroughly cleaned.

Interested parties are invited to visit our showrooms and examine these and other sanitary appliances.

IMPERIAL PORCELAIN ROLL-RIM BATHS.

ILLUSTRATED PRICE-LIST MAILED ON APPLICATION.

COMPETITIONS.	PROPOSALS.	PROPOSALS.
by the Public Works Department in Cairo, on application. 965	and specification, copies of which may be had at this office or the office of the Superintendent at Detroit, Mich. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all proposals, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for Brick and Terra-cotta Floor-arches, etc., for the United States Court-house, Post-office, etc., building at Detroit, Mich.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 976	BRICKWORK. [At Washington, D. C.] Proposals are wanted until September 4, for brick-work, boiler repairs, grate-bars, etc., at the Smithsonian Institution. Address CHIEF CLERK, U. S. National Museum, Washington, D. C. 975
PROPOSALS. Treasury Department, Office Supervising Architect, Washington, D. C., August 25, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 21st day of September, 1894, and opened immediately thereafter, for all the labor and materials required for the excavation, concrete foundations, cut-stone and brickwork, iron and wood floor, ceiling and roof construction, roof-covering, drainage, etc., for the United States Post-office building at Roanoke, Va., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Roanoke, Va. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Excavation, Concrete Foundations, Cut-stone and Brickwork, Iron and Wood Floor, Ceiling and Roof Construction, Roof-covering, Drainage, etc., for the United States Post-office building at Roanoke, Va.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 976	ELECTRIC-LIGHTING PLANT. [At League Island, Pa.] Proposals are wanted until September 8, for electric-lighting plant for League Island Navy Yard. Plans, etc., at office of Commandant of the Navy Yard. Address BUREAU OF YARDS AND DOCKS, Navy Department, Washington, D. C. 975	ELECTRIC-LIGHTING PLANT. [At Lancaster, O.] Proposals are wanted until September 14, for an electric-lighting plant for Boys' Industrial School. Address C. D. HILLES, Secretary, as above. 976
Treasury Department, Office Supervising Architect, Washington, D. C., August 24, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 17th day of September, 1894, and opened immediately thereafter, for all the labor and materials required for the brick and terra-cotta floor-arches, terra-cotta column covering, wall-furring, etc., for the United States Court-house, Post-office, etc., building at Detroit, Mich., in accordance with the drawings	To Wharf Builders and Contractors. Office of the Light-house Engineer, Third District, Tompkinsville, N. Y., August 24, 1894. Proposals will be received at this office until 12 o'clock, noon, of Saturday, the 1st day of September, 1894, for furnishing the materials and labor of all kinds necessary for removing part of the old wharf, and building new wharf, at the Light-house Depot, Tompkinsville, Staten Island, New York. Plans, specifications, forms of proposal, and other information may be obtained on application to this office. The right is reserved to reject any or all bids, and to waive any defects. Bidders are advised to visit the site before submitting proposals. D. P. HEAP, Major of Engineers, U. S. A., Light-house Engineer, Third District. 975	ELECTRIC-LIGHTING PLANT. [At Boston, Mass.] Proposals are wanted until September 8, for an electric-lighting plant for the Boston Navy Yard. Plans, etc., at office of Commandant of Boston Navy Yard. Address BUREAU OF YARDS AND DOCKS, Navy Department, Washington, D. C. 975
	WATER-WORKS AND ELECTRIC-LIGHT PLANT. [At Alexandria, La.] Proposals are wanted until September 10, for combined water-works and electric-light plant. Address A. B. RACHAL, Acting Mayor, as above. 976	FENDER PIER. [At Haverhill, Mass.] Proposals are wanted until September 5, for a timber fender pier over the Merrimack River, between Haverhill and Bradford. Plans, etc., at office of C. A. Putnam, 251 Essex St., Salem. Address ESSEX COUNTY COMMISSIONERS, Salem, Mass. 975
	BRONZE MEDALS. Proposals are wanted until September 5, for furnishing blanks and striking 23,757 bronze medals of award of World's Columbian Exposition. Address DIRECTOR OF THE MINT, Washington, D. C. 975	REBUILDING WHARVES. [At Philadelphia, Pa.] Proposals will be received until September 4, for rebuilding and repairing wharves at U. S. Naval Home. Address BUREAU OF YARDS AND DOCKS, Navy Department, Washington, D. C. 975

Lead-Lined Iron Pipe and Fittings,

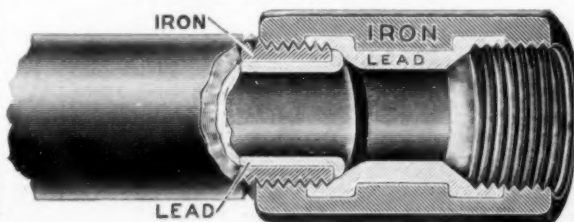
IT CANNOT RUST OR EAT OUT.

ALL FITTINGS ARE LEAD-LINED AND HAVE A PORTION OF THE THREAD IN LEAD.

WHEN COUPLED UP, A PERFECTLY TIGHT LEAD JOINT IS MADE (see cut).

NEW ENG. WATER-PIPE CO.
Wakefield, Mass.

SUPPLY, VENTILATION AND SOIL PIPE.
A Substitute for Lead Pipe.



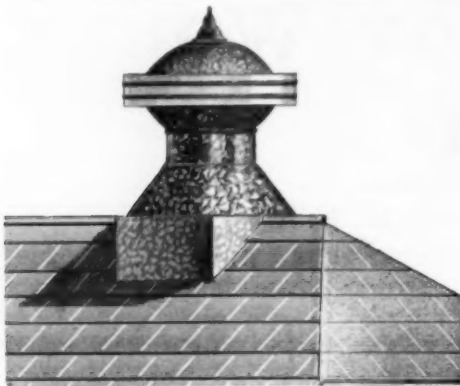
IT IS MUCH CHEAPER THAN LEAD PIPE.

IS NOW USED IN FORTY CITIES AND TOWNS.

IT CAN BE CUT WHEREVER DESIRED AND ENDS PERFECTLY PROTECTED.

IT IS MUCH STRONGER THAN LEAD PIPE.

WE USE STANDARD IRON PIPE AND MALLEABLE IRON FITTINGS.



The Proverbial Cucumber

is not cooler than a

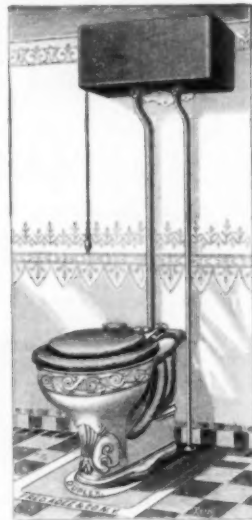
HOUSE, HALL, CHURCH OR FACTORY

that is ventilated by the

GLOBE VENTILATOR.

Send for Circular on the Subject.

GLOBE VENTILATOR COMPANY,
TROY, NEW YORK.



"DUPLIX"

THE BEST WATER CLOSET

IN THE WORLD

*Quiet in Operation,
Positive in Action,
Elegant in Appearance*
—AND—
Sanitarily Perfect.

FRED. ADEE & CO.,
90 BEEKMAN ST.,
NEW YORK.



ROLLED RIM, Porcelain-lined Iron Bath.

A NEW BATH, DOES AWAY ENTIRELY
WITH WOODWORK. ALWAYS SWEET AND
CLEAN. CANNOT GET OUT OF ORDER,
AND IS PRACTICALLY INDESTRUCTIBLE.

HAINES, JONES & CADBURY CO.,

MANUFACTURERS OF

High-class Plumbing Goods,
1136 Ridge Avenue - PHILADELPHIA.

"THE CAST SINK MUST GO"

THE COLUMBUS SINK DISPLACES WROUGHT STEEL ALL OTHERS

PAINTED, GALVANIZED, ENAMELED.

Send for descriptive circular and prices, to
The Kilbourne & Jacobs Mfg. Co.
Sole Manufacturers. - COLUMBUS, OHIO.

PROPOSALS.

COUNTY JAIL. [At Ortonville, Minn.]
Proposals are wanted until September 21, for a county jail for the County of Big Stone, Minn. Plans, etc., at office of auditor of county. Address BUILDING COMMITTEE OF COUNTY JAIL, as above. 977

SCHOOL-HOUSE. [At Riverside, Ill.]
Proposals are wanted until September 11, for eight-room school-house. Kuhlmann & DeCamp, architects, Cincinnati, O. Address CLERK OF BOARD OF EDUCATION, as above. 976

OFFICERS' QUARTERS, ETC. [At Burlington, Vt.]
Proposals are wanted until September 13, for officers' quarters, administration building and magazine. Address CAPT. GUY HOWARD, A. Q. M., U. S. A., as above. 976

Treasury Department, Office Supervising Architect, Washington, D. C., August 21, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 18th day of September, 1894, and opened immediately thereafter, for all the labor and materials required for the superstructure and roof-covering, including approaches, of the United States Post-office and Custom-house building at Fargo, N. D., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Fargo, N. D. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Superstructure, etc., of the United States Post-office and Custom-house at Fargo, N. D." and addressed to JEREMIAH O'HOURKE, Supervising Architect. 975

Proposals for Dynamos. Office of Building for Library of Congress, 145 East Capitol St., Washington, D. C., August 23, 1894. Sealed proposals for furnishing and delivering three 125-volt direct coupled dynamos and engines for the Building for Library of Congress, in this city, will be received at this office until 2 o'clock P. M., on Monday, the 10th of September, 1894, and opened immediately thereafter in presence of bidders. Specifications, general instructions and conditions and blank forms of proposal may be obtained on application to this office. BERNARD R. GREEN, Superintendent and Engineer. 975

PROPOSALS.

ELECTRIC-LIGHTING. [At Hempstead, N. Y.]
Proposals are wanted until September 17, for electric-lighting. Address VILLAGE CLERK, as above. 976

ELECTRIC-LIGHTING. [At Jackson, Tenn.]
Proposals are wanted until October 2, for electric-lighting. Address SAM C. LANCASTER, City Engineer, as above. 979

SCHOOL-BUILDING [At Central Falls, R. I.]
Proposals are wanted until September 6, for a brick school-building on Washington St. Wm. R. Walker & Son, architects, 17 Custom-house St., Providence, R. I. Address HENRY C. DEXTER, Clerk of Committee, as above. 975

STOREHOUSE, ETC. [At North Kingstown, R. I.]
Proposals are wanted until September 3, for storehouse, mess-rooms, kitchen, etc., at the State Camp Ground. Wm. R. Walker & Son, architects, 17 Custom-house St., Providence, R. I. 975

ODD FELLOW'S BUILDING. [At Palmer, Mass.]
Proposals are wanted until September 5, for brick Odd Fellow's building and opera-house. Address CHARLES E. FULLER, as above. 975

REPAIRS. [At Jackson, Miss.]
Proposals are wanted until September 4, for repairs to U. S. Court-house and Post-office, Jackson, Miss. Address D. P. PORTER, Custodian. 975

REPAIRS. [At Leavenworth, Kan.]
Proposals are wanted until September 4, for miscellaneous repairs to U. S. Court house and Post-office Building. Address RICHARD B. MORRIS, Custodian, as above. 975

WATER-WORKS. [At Greenville, Miss.]
Proposals are wanted until October 2, for water-works. Address CITY CLERK, as above. 979

WATER-WORKS. [At Guttenburg, Ia.]
Proposals are wanted until September 18, for water-works. Address HENRY C. ECKART, Recorder, as above. 976

HIGH SCHOOL. [At Scranton, Pa.]
Proposals are wanted until September 17, for a high school. Address E. D. FELLOWS, Secretary Board of Control, as above. 976

SCHOOL-HOUSE. [At Bryan, O.]
Proposals are wanted until September 14, for a school-house. Address A. C. MARSHALL, County Auditor, as above. 976

ELECTRIC-LIGHTING. [At Jacksonville, Fla.]
Proposals are wanted until September 6, for electric-lighting. Address WM. C. WEST, Recorder, as above. 975

PROPOSALS.

SCHOOL-HOUSE. [At Pittsburgh, Pa.]
Proposals are wanted until September 8, for an eight-room school-house. Address U. J. L. PEOPLES, architect, as above. 975

WATER-WORKS. [At Hamilton, N. Y.]
Proposals are wanted until September 6, for water-works. Address JAMES M. TAYLOR, Secretary Board of Water Commissioners, as above. 975

GARBAGE CREMATORY. [At Fort Wadsworth, N. Y.]
Proposals are wanted until September 15, for a garbage crematory. Address POST QUARTERMASTER, as above. 976

ARMORY. [At Niagara Falls, N. Y.]
Proposals are wanted until September 5, for building an armory. Address JOSIAH PORTER, Adj. Genl., Albany, N. Y. 975

ASPHALT PAVEMENTS. [At Washington, D. C.]
Proposals are wanted until September 4, for asphalt pavements. Address J. W. ROSS, GEORGE TRUESDELL, CHAS. F. POWELL, Commissioners, as above. 975

CITY-HALL AND MARKET. [At Jacksonville, Fla.]
Proposals are wanted until September 10, for proposed city-hall and market-building. Address JOHN R. SCOTT, architect, Board of Trade Building, as above. 976

STEAM-HEATING AND ELECTRIC-LIGHTING. [At Paterson, N. J.]
Proposals are wanted until September 5, for steam-heating and electric-lighting for new city-hall. Address CARRERE & HASTINGS, architects, 44 Broadway, New York City, or on the City-hall Grounds at Paterson. 975

WATER-WORKS. [At Traer, Iowa.]
Proposals are wanted until September 3, for a water-works plant. Address W. J. LADD, Recorder, as above. 975

HEATING APPARATUS. [At Hillsboro, O.]
Proposals are wanted until September 11, for heating apparatus for jail and court-house. Yost & Packard, architects, Columbus, O. Address JAMES REECE, County Auditor, as above. 976

LIGHT-STATION. [At Crooked River, Fla.]
Proposals are wanted until September 11, for buildings and metal-work for light-station. Address MAJOR JAMES B. QUINN, C. of E., U. S. A., Seventh District, New Orleans, La. 976

EARTH CLOSETS. [At Fort Bliss, Tex.]
Proposals are wanted until September 10, for dry earth closets. Address G. C. SMITH, Q. M., U. S. A., San Antonio, Tex. 976

BOSTON FIRE-BRICK WORKS.

FRONT BRICK

BUFF, BROWN, MOTTLED YELLOW,
GRAY, OLD GOLD AND
OTHER COLORS.

ARCHITECTURAL TERRA-COTTA

In all its varied colors and forms.

FISKE, HOMES & CO.,

MANAGERS,

Factories on Federal Street and
at South Boston.

Office, 164 Devonshire St., Boston.

Times Building, Park Row, New York.

927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.

SOLE OWNERS AND MANUFACTURERS OF

J. G. MERRILL'S PATENT

SALAMANDER

Fire-Proof Composition

FOR BUILDINGS.

Used as Lining between
Floors, and upon Walls,
Ceilings, Elevator and
Light Shafts, Boiler Rooms,
Doors, Shutters, etc. It is
Air, Dust, and Vermin
Proof, and a Sound-



Headener.

Office, 166 Devonshire Street, BOSTON.

A. J. HODDER, Pres.
CHAS. T. MAKER, Treas.
W. D. LOMBARD, Gen. Mgr.

From 49 Master Builders
Association Building.



For estimates on

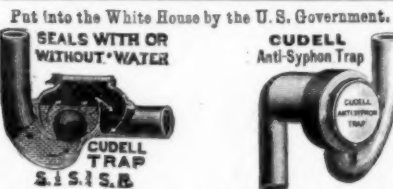
ASPHALT WORK

of every descrip-
tion apply to Man-
ager,

T. Hugh Boorman,

35 Broadway, N. Y.

N. Y. Mastic Works,
Asphalt Mine Owners in France, Sicily, etc.



For venting, use vent-top.

F. E. CUDELL'S
PATENT SEWER-GAS AND BACK-WATER TRAP,
For Wash-Bowls, Sinks, Bath and Wash-Tub
West Cleveland, O.

THE VAN VRANKEN FLUSH TANK.

For Sewers, Subsoil Disposal, etc.

For catalogues, discounts and other particulars, address

J. LELAND FITZGERALD,

437 STATE STREET, SCHENECTADY, N. Y.

Fire-proof Building.

RARITAN HOLLOW AND POROUS BRICK CO.,

—MANUFACTURERS OF—

Hollow Fire-Clay and Porous Terra-Cotta Bricks
of Every Description, for Fireproof Buildings.

BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.

Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.

Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.

HENRY MAURER & SON,

Manufacturers of

FIRE-PROOF BUILDING MATERIAL

Of every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.
Porous Terra-Cotta, Fire-Brick, etc., etc.

Works, MAURER, N. J.

Office and Depot, 420 EAST 23d STREET, New York.

Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."

C. PARDEE WORKS,

Manufacturers

All Kinds Fireproof Building Materials, etc.

Perth Amboy, N. J. See ad. on page XVI.

PIONEER FIREPROOF

CONSTRUCTION CO.

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile AND Porous Terra-Cotta

FOR FIREPROOFING BUILDINGS.

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

TO ARCHITECTS,
BUILDERS
AND OWNERS.

Sample and Circulars Free.

MINERAL WOOL,

As a Lining in Walls and Floors for preventing the
ESCAPE OF WARMTH AND THE DEADENING OF SOUND.

AMERICAN MINERAL WOOL CO.

Lessee of

Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N.Y. City.

Roebling STANDARD Wire Lathing

FIREPROOF—DURABLE—ECONOMICAL

Pays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures
a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three
public tests—detailed accounts of which will be mailed to any address upon request.

THE NEW JERSEY WIRE CLOTH COMPANY, TRENTON, N. J.

Massachusetts Material-Men and Contractors.

ARTIFICIAL STONE.	FIREPROOFING.	HEATING CONTRACTOR.	PAPIER MACHÉ.
SIMPSON BROS. 166 Devonshire St. Boston, Mass.	BOSTON FIREPROOFING CO. 166 Devonshire St. Boston, Mass.	W. E. FLORENCE, 10 Beacon St. Chelsea, Mass.	CONLAN & MAYBECK, 65 Wareham St. Boston, Mass.
BUILDING CONTRACTORS.	FURNACES.	IRON WORK. (Building)	PRINTING.
LITTLEFIELD BUILDING CO. Incorporated. Room 57, 166 Devonshire St. Boston, Mass.	CYRUS CARPENTER & CO. 44 Hanover St. Boston, Mass.	R. F. HAWKINS' IRON WORKS, Springfield, Mass.	S. J. PARKHILL & CO. 218-226 Franklin St. Boston, Mass.
CARVERS, MODELLERS.	GRANITE.	MANTELS. (Wood)	SASH CORD.
JOHN EVANS & CO. 77 Huntington Ave. Boston, Mass.	GRANITE RAILWAY CO. 166 Devonshire St. Boston, Mass.	J. W. BAILEY & SONS CO. 14 Charlestown St. Boston, Mass.	SILVER LAKE CO. 78 Chauncy St. Boston, Mass.
ELECTRIC WORK.	HEATING. (Air & Water)	MASON CONTRACTORS.	SLATE. (Roofing)
BLODGETT BROS. & CO. 383 Federal St. Boston.	MAGEE FURNACE CO. 30-8 Union St. Boston, Mass.	THOMAS J. LYONS, 166 Devonshire St. Boston, Mass.	H. H. MATHEWS, 178 Devonshire St. Boston, Mass.

Bricks and Terra-Cotta.

HYDRAULIC BRICK,
PLAIN AND MOULDED
OF ANY COLOR.
RED, BUFF, GRAY, BROWN,
PINK, MOTTLED, GRANITE.

Total Annual Capacity, 100,000,000.

HYDRAULIC-PRESS BRICK CO.,
ODD FELLOWS' BUILDING,
ST. LOUIS, MO.

PERTH AMBOY
TERRA-COTTA COMPANY,

PERTH AMBOY, NEW JERSEY.

OFFICE, 289 Fourth Ave., NEW YORK.

PHILADELPHIA
OFFICE,
DREXEL BLDG.

BOSTON AGENTS,
WALDO BROS.,
88 Water Street.

TIFFANY PRESSED BRICK CO.,
Manufacturers of

Pressed and Enamelled Brick,
Plain and Ornamental,

403 Chamber of Commerce Bld'g,
CHICAGO.

BUILDING-BRICK.

YARDS at West Brimfield, Mass., on Boston & Albany R. R., and at Amherst, Mass., on Central Vermont R. R. (New London Northern Div.) and Boston & Maine R. R. (Central Mass. Div.).

CAPACITY, 7,000,000 Annually.

Address, MARCY & GARDNER,
PALMER, MASS.

"Architects" } **LAFARGE'S**
SPECIFY } **CEMENT**

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,

Importer and Sole Agent,
81 and 83 Fulton St., N. Y.

The Temporary Binder

Provided by us will keep your copies of the *American Architect* in PERFECTLY uninjured condition.

Price \$1.25 postpaid.

NEW YORK
ARCHITECTURAL TERRA COTTA
COMPANY.

OFFICE,
38 PARK ROW,
New York City.

WORKS,
LONG ISLAND CITY,
New York.

GENERAL AGENTS FOR NEW ENGLAND:
BOSTON FIRE BRICK COMPANY,
Flake, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.

STEPHENS, ARMSTRONG & CONKLING,
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, - - - Philadelphia, Pa.

— **INDIANAPOLIS** —
TERRA-COTTA CO.

Works: Brightwood, Ind.

ESTIMATES ON SPECIAL DESIGNS PROMPTLY
FURNISHED. WRITE FOR CATALOGUE
AND DISCOUNTS.

SEMI-GLAZE OR DEAD-FINISH.
ALL COLORS.

POMPEIIAN,
BUFF AND RED PRESSED,
ALSO ORNAMENTAL

FACE BRICK MANUFACTURE.

CAPACITY, 100,000,000 PER ANNUM.

BRICK FIREPLACES.

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

FRONT BRICKS
— AND —
TERRA-COTTA

— IN OVER TWENTY COLORS. —

Chimney Flue Linings, Chimney Tops, Drain
Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,
86 WATER STREET. - - BOSTON.

THE
Northwestern Terra-Cotta Co.
Manufacturers of

Architectural Terra-Cotta.

WORKS & MAIN OFFICE:
Cor. Clybourn & Wright-
wood Avenues.

CITY OFFICES:
Room 1118 Rookery Bldg.
cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for
Catalogue and Samples.

BRICK OF ANY COLOR
AND
OF ALL SHAPES.



NO. 3 SPANISH

BALTIMORE ROOFING TILE CO.

BURNS, RUSSELL & CO., Proprietors,

535 Columbia Avenue, Baltimore, Md.,

MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other
styles of Clay Roofing Tiles in all colors,
glazed or unglazed.

CATALOGUE ON APPLICATION.



ROMAN

C. PARDEE WORKS, Perth Amboy, N. J.
MANUFACTURERS
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIREPROOF BUILDING MATERIALS, ETC.

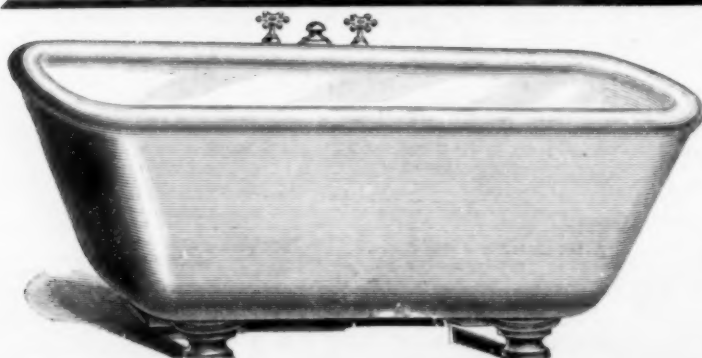


Giant Metal Sash Chain.

MADE ONLY BY

THE SMITH & EGGE MANUFACTURING CO.,
BRIDGEPORT, CONN.

The most reliable and economical article in the market for the purpose. GREAT TENSILE STRENGTH. Does not corrode; does not lose its vitality by continuous use, or exposure to the elements; runs over any pulley, and gives satisfaction wherever it is used. Fixtures made of steel wire, is very simple and easily applied. Prices very low. Samples sent to any architect in the United States, free, on application. Now in use in State House, Hartford; Providence City Hall; Singer Building, Chicago; J. C. Flood's, Menlo Park, Cal.; Vancornear and Florence Flats, New York; Boreel Building, New York; new State, War and Navy Departments, and Patent Office, Washington, D. C.; Herald Building, Boston, and very many other fine buildings in all parts of the United States.

Porcelain Bath Tubs

"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.

"SLUICE" Syphon Jet Water Closet.

MINTON'S TILES

For Bathrooms, Halls and Vestibules; Glazed,
Unglazed and Enamelled.

MILLER & COATES, 279 PEARL STREET
NEW YORK.

260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.

DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.

ORGAN BUILDERS

CORRESPONDENCE SOLICITED

Works and Main Office at Detroit, Michigan.

PEERLESS COLORS FOR MORTAR.

THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.

PLASTER ARCHITECTURAL ORNAMENTS FROM ORIGINAL AND SPECIAL DESIGNS

SAMUEL H. FRENCH & CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.

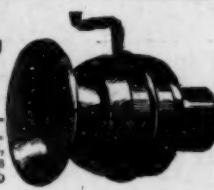
P. SEBIRE & SONS,
NURSEYMEN,
USSY, CALVADES, FRANCE.
A GENERAL ASSORTMENT OF
FRUIT TREE STOCKS, MAHALED CHERRY, SMALL EVERGREENS,
SUCH AS APPLE, PEAR, MAZZARD, FOREST TREES,
ATROCULAN PLUM, QUINCE, ORNAMENTAL SHRUBS, RIDGES
ETC.
THE LARGEST COLLECTION OF QUINCE TREES FOR SALE IN FRANCE.
Sole Agents for U.S. America & Canada.
C.C. ABEL & CO. P.O. Box 920, New York



W. R. OSTRANDER & CO.,
204 Fulton Street, New York.

Manufacturers of

Speaking-Tubes, Whistles, Oral, Electric, Mechanical and Pneumatic Annunciators & Bells. Complete outfits of Speaking-Tubes, Whistles, Electric, Mechanical, and Pneumatic Bells. A full line always in stock. Send for New Catalogue. Factory, De Kalb Ave. near Knickerbocker, Brooklyn, N. Y.



**PASSENGER
AND
FREIGHT
ELEVATORS**

Morse, Williams & Co.,
Electric and Hydraulic High Speed
Passenger Elevators.
Steam, Belt and Hand Power Freight Elevators.
1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.
19 Pearl St., Boston. 82 Church St., New Haven.
714 Omaha Building, Chicago. 1110 E. St. N. W., Washington, D. C.

Decorative Glass and Sand Blast Work.

THE MATTHEWS DECORATIVE GLASS CO.
MANUFACTURERS OF
ORNAMENTAL GLASS in Sheets or from Special Design
By the SAND-BLAST and other Patented processes.
CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,
Gold and Silver Embossed, and Transparent Glass Signs. Marbled Glass
for Ceilings. Estimates promptly furnished on application.
328-330 E. 26th Street, New York City.

Classified Advertisements.

[Advertisers can be indexed only under a single head free of charge].

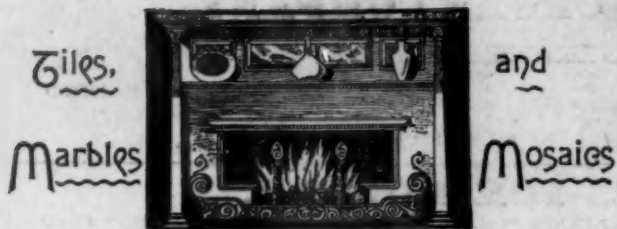
Architects.
W. R. Ostrander & Co., New York.....
Architects.
Ingram & Treasott, Philadelphia, Pa. (mon)
F. E. Kiddle, Denver, Col.
Architects' Materials.
Frost & Adams, Boston.
Architectural Iron Work.
Globe Iron Works Chicago Ill.....(cov)
Architectural Wood-Work.
Havlin & Hollingsworth Co., Wilmington, Del.
C. A. B. Co., Boston
A. A. Marx, New York
Art Metal Work.
Edo. C. T. St. Louis, Mo. (mon)
Howe Taylor Wire Co., New York
Asbestos Mats & Boiler Coverings.
H. W. Johns Mfg. Co., New York
Asbestos Paint.
B. C. T. Co., New York
Asphalt. Neuchatel Asphalt Co., New York
New York Mastic Works Co., New York, N. Y.
Asphalt Roofings.
H. W. Johns Mfg. Co., New York
Basin Cocks.
Stebbins Mfg. Co., Brighton, Mass.....(cov)
Basin Cocks.
Miller Cocks, New York
J. L. Mast Iron Works, New York
H. J. Blake Bell Co., Boston, Mass.
Bell Co., Bell Co.
Bine Prints.
Spaulding & Moss, Boston, Mass.....(cov)
Boilers.
Baker & Wilcox Co., New York
Books and Journals.
J. A. Baker & Wilcox Co., New York
H. W. Johns Mfg. Co., New York
T. K. & Co., Boston
Brick (Colored).
Jarden Brick Co., Philadelphia, Pa.
Brick, (Enamelled).
F. H. F. Co., Chicago, Ill.
Brick (Ornamental).
Fleming Cement & Brick Co., New York (cov)
H. W. Johns Mfg. Co., U. S. Louis.
Waldo Bros., Boston
Bronze-work. M. J. Power, New York
Burners and Burners.
Paul, Cabaret, New York, N. Y.
Building Brick.
Mayer & Gardner, Palmer, Mass.....(cov)
H. W. Johns Mfg. Co., New York
H. W. Johns Mfg. Co., New York
Carpet. John H. Fry, Sons & Co., Boston.
Ceilings (Metal).
H. S. Northrop, New York, N. Y.
N. Y. Metal Ceiling Co., N. Y. City.....(cov)
Fleming Cement & Corrugating Co. (Lim.)
Philadelphia, Pa. (mon)
Cement (Hydraulic).
F. O. Norton Cement Co., N. Y.
Cement.
Allen's Cement Works, New York, N. Y. (cov)
Buckeye Portland Cement Co., Bellefonte,
Ohio.....
Brooks, Shobridge & Co., New York
Fleming Cement & Brick Co., New York (cov)
H. W. Johns Mfg. Co., New York
Lawrence Cement Co., New York
E. Thiele, New York, N. Y.
Chrome Steel Castings.
Reading-Appearances, N. Y. (cov)
Condensers (Water).
Lamb & Hupke, Cambridgeport, Mass.
Consulting Engineers.
Irvington-on-Hudson, N. Y.
Consulting Engineer.
Greene Hill, New York, N. Y.
Contracting. Flat Building, New York
ton Co., Palmer, Mass.
Cordage.
Sawage Cordage Works, Boston. (cov)
Correspondence School. School of Me-
chanics and Industrial Sciences, Scranton, Pa.
Crescent Stairs. S. Cabot, Boston, Mass.
Coverings. Booth
H. W. Johns Mfg. Co., New York, N. Y.
Decorative Glass.
Metallic Setting Co., Providence and Boston.
L. Haberstroff & Son, Boston.
Door-Knobs.
J. Hardsley, New York, N. Y.
Dress Makers.
Lane Bros., Poughkeepsie, N. Y.
Electric Pumps.
Goulds Mfg. Co., Seneca Falls, N. Y.
Elevators.
Electric Mfg. Co., Springfield, Mass.
Graves Elevator Co., Rochester, N. Y.
Moore & Wyman, Boston
Merrill Williams & Co., New York
Otto Brothers & Co., New York
Penn. Elevator Engineering Co., Philadelphia.
Perry Elevator Engineering Co., Chicago, Ill.
Whittier Machine Co., Boston.
Fan (Ventilating).
Huyett & Smith Mfg. Co., Detroit, Mich.
Fireproof Building.
Henry Maurer, New York
Pioneer Fireproof Construction Co., Chicago, Ill.
Fireproofing.
Chicago Iron Pipe-rod Co., Boston, Mass.
Fireproof Lathing.
Hayes Metallic Lathing, New York
H. W. Johns Mfg. Co., New York
G. Pardee, Perth Amboy, N. J.
Fire Pumps.
Goulds Mfg. Co., Seneca Falls, N. Y.
Flannels (Rough).
New York Mfg Co., N. Y.
Fish Tank.
L. C. Fitzgerald, Schenectady, N. Y.
Furniture (Special).
Chicago Interior Decorating Co., Chicago, Ill.
Gates. Wm. E. Pratt, New York, N. Y. (mon)
Glass.
Mattland Armstrong & Co., New York
Matthews Decorative Glass Co., New York
Metally Glass Co., Chicago, Ill. (mon)
Wm. H. Johnson & Co., New York
Groceries, etc.
E. A. Jackson & Bro., New York, N. Y.
Wm. H. Johnson & Co., New York
Grates.
Hitchings & Co., New York, N. Y.
Hardware (Art).
Van der Corput Mfg. Co., Stamford, Ct.
Hardware. (Builders)
Burditt & Williams, Boston, Mass.
Heaters. Steam and Hot Water.
Brooks, Shobridge & Co., New York
Fleming Cement & Brick Co., New York (cov)
H. W. Johns Mfg. Co., New York
Lawrence Cement Co., New York
E. Thiele, New York, N. Y.
Heating and Ventilating.
Percy N. Kenay, Boston, Mass.
Smith & Anthony Store Co., Boston
Heating Apparatus. H. W. Johns Mfg. Co.
Garney Heater Mfg. Co., Boston
W. H. Mfg. Co., Chicago.....(mon)
Heating Apparatus (Warm).
American Works Co., Boston
Gorton & Lidgerwood Co., New York.....(cov)
Heating Apparatus (Steam).
H. B. Smith Co., New York
Heliotype Process.
Heliotype Printing Co., Boston
Hinges.
Huyett & Smith Mfg. Co., Detroit, Mich.
Insulated Wire.
H. W. Johns Mfg. Co., New York, N. Y. (cov)
The Okonite Co., (Lid.) New York, N. Y. (cov)
Insurance.
Continental Insurance Co., N. Y. (cov)
Interior Decorations.
Chicago Interior Decorating Co., Chicago, Ill.
Iron-Work (Architectural).
Belmont Iron Works, Philadelphia, Pa. (cov)
Jackson Architectural Iron Works, N. Y.
Passaic Rolling Mill Co., Paterson, N. J.
Phenix Iron Co., Philadelphia
Iron-Work.
Apollo Iron & Steel Co., Pittsburgh, Pa.
Laundry Machinery.
Troy Laundry Machinery Co., Troy
Machinists.
Cutter Manufg. Co., Rochester, N. Y.
Machinists.
Aschlimann & Pollard, New York
Carbide Welding Co., New York
Battersea, See & Kline, New York
Robert C. Fisher & Co., New York
Metal-Work.
Cincinnati Corrugating Co., Piqua, Ohio.
G. Hayes, New York
Metal-Work (Wrought).
Paul Cabaret, New York
John Williams, New York
Mineral Wool.
American Mineral Wool Co., New York
Miscellaneous.
Samuel H. French & Co., Philadelphia
Mosquito (Cranet).
Chicago Interior Decorating Co., Chicago, Ill.
Nurserymen.
G. C. Abel & Co., New York.....(cov)
Oats Cleaner.
Chicago Iron Pipe-rod Co., Chicago, Ill. (mon)
Organ Builders.
Fairbank & Votey Organ Co., New York.....(mon)
Devon & Co., New York
Joseph Dixon Crucible Co., Jersey City, N. J.
H. W. Johns Mfg. Co., New York
Paints (various).
Hosmer & Howland, Philadelphia.....(cov)
Photographs. J. W. Taylor, Chicago, Ill.
Pipe Lead (Lead). New England Water Pipe
Co., Boston
Plumbers. T. B. Duggan, Boston
Pumps (Steam).
H. B. Worthington, New York and Boston
Refrigerators.
H. C. Charles & Co., Chicago, Ill.
L. F. Pratt, New York
Refrigerator and Cold Storage Co.,
Kendallville, Ind.
Wicks Refrigerator Co., New York, N. Y.
Refrigerator and Cold Storage Co.,
Kendallville, Ind.
Roofers. Berger Bros., Philadelphia, Pa.
John Farquhar & Sons, Boston
James A. Miller & Bro., Chicago, Ill.
Roofs. M. J. Power, New York
Thomas J. Hind, Boston
Merchant & Co., Philadelphia, Pa. (cov)
E. G. Taylor Co., Philadelphia, Pa. (cov)
Ther's Building Co., Boston
Ther's Shingle and Ornament Co., Phila. Pa.

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th St.
NEW YORK CITY.

Designers and Manufacturers of....

MANTELS
OPEN FIREPLACES ..
GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 65 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.

PRIZE MEDALLISTS.

EXHIBITION OF 1862, 1865, 1867, 1873, 1876, AND ONLY AWARD AND MEDAL
NOISELESS, SELF-COLLING STEEL SHUTTERS AT PHILADELPHIA
1876; PARIS, 1879; AND MELBOURNE, 1881.

CLARK, BUNNETT & CO. (Limited)

Late CLARK & COMPANY,

ORIGINAL INVENTORS AND SOLE PATENTERS OF NOISELESS

Self-Colling, Revolving **STEEL SHUTTERS** Fire & Burglar Proof.
Also Improved Rolling Wood Shutters, and Clark's Patent
Metallic Venetian Blinds.

The BEST in the Market. Send for Catalogues, etc., to

162 and 164 West 27th St. - - New York.

ALSEN'S

PORTLAND CEMENT

(GERMAN.)

The Strongest, Finest Ground and Most Uniform
Cement Made in the World.

The Largest Works and Greatest Production.

U. S. OFFICE, 143 Liberty Street, NEW YORK.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

We Invite Correspondence.
Send for Catalogues.

HEAD OFFICE: **Gurney Heater Mfg. Co.** 163 Franklin St., Cor.
Congress, Boston, Mass.

SELLING AGENCIES. (JOHNSON & CO., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHSEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

Endorsed by the leading
Architects and Engineers.



JAS. G. WILSON, Patentee and
Manufacturer,
74 West 23d St., New York.



Rolling Steel Shutters.

Rolling Venetian Blinds.

Rolling Partitions.

English Venetian Blinds.

NJ. STEEL & IRON CO.
TRENTON, N.J.

IRON AND STEEL BEAMS

CHANNELS, ANGLES & TEES

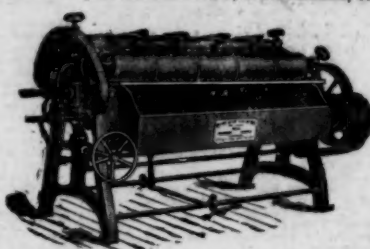
COPPER, HEWITT & CO.
NEW YORK.

TROY LAUNDRY MACHINERY CO.

[LIMITED.]

FACTORIES: (848-650 Fulton St., Troy, N. Y.
305-405 Fifth Ave., Chicago, Ill.

SALESROOMS: (15 Warren St., New York.
261-263 Mission St., San Francisco, Cal.



Our line the largest and most complete
in the world.

Send for Illustrated Catalogue Z.



80-Paged Illustrated Catalogue
of over 250 Designs of
Superior
**WEATHER VANES,
TOWER ORNAMENTS,
CHURCH CROSSES,
FINIALS, Etc., Etc.**

Mailed to any address for 2-cent
stamp-half the postage.

T. W. JONES, Manufacturer,
170-172 FRONT ST., New York.



LUDLOW SAYLOR WIRE CO. No. 114 & 116 So. Fourth St.
ST. LOUIS, MO.



Elevator Enclosures and Cabs,
Metal Work in Brass,
Wire and Wrought-Iron,
Office and Bank Railings,
Wire and Iron Fences, etc.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen. Agts.,

Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Masons' Materials. Send for Pamphlet.

CONTINENTAL INSURANCE COMPANY,
of NEW YORK CITY.

Extract from statement made Jan. 1, 1894.
CASH CAPITAL - - - - - \$1,000,000.00
RESERVE for insurance in force, etc. - - - 3,856,575.95
NET SURPLUS - - - - - 1,076,586.38
POLICY HOLDERS' SURPLUS - - - - - 2,576,086.38
GROSS ASSETS - - - - - 6,433,171.33

SAFETY FUND POLICIES ISSUED.

F. C. MOORE, President, HENRY EVANS, Vice-President.
EDWARD LANNING, Secretary. CYRUS PECK, Treasurer.

WM. A. HOLMAN, Asst. Sec. R. I. TAYLOR, Man'gr Loss Dept.
40 Cedar Street, New York.

C. H. DUTCHER, Secretary Brooklyn Dept., Court
and Montague Sts., Brooklyn, N.Y.; J. J. McDONALD,
Gen'l Manager Western Dept.; GEO. E. KLINE, Asst.
to Gen'l Manager, Blais Building, Chicago, Ill.; W.
S. DUYAL, Gen'l Manager Pacific Coast Dept.; F. C.
BANKMAN, Asst. to Gen'l Manager, 331 Pine St., San
Francisco, Cal.

RESPONSIBLE AGENTS WANTED.

THE AMERICAN ARCHITECT

AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. XLV. — No. 976.]

SATURDAY, SEPTEMBER 8, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS.
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Kicker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE.
Louis De Coppet Berg.

PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

ARCHITECTURAL ATELIER.
MASQUERAY-CHAMBERS.
123 East 23d Street, New York.
E. L. Masqueray. W. B. Chambers.
(Ecole des Beaux-Arts, Paris.) See page x.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.

COOPER INSTITUTE.
E. A. Miller.

INSTITUTE OF ARTIST-ARTISANS.
140 West 23d Street.
John Ward Stimson.

METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.
S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Truscott.

UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

[Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.]

CONSTRUCTION.

BERG, LOUIS D'G. Two Vols., each \$5.00
"Safe Building."
New York (66 Fifth Ave.): Macmillan & Co.

CHANDLER, F. W. \$10.00
"Construction Details."
Boston (211 Tremont St.): Heliotype Printing Co.

CLARK, T. M. \$3.00
"Building Superintendence." Out.
New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts. \$2.00 each.
"Architectural Rendering in Pen and Ink."
Boston (211 Tremont St.).

WARE, WILLIAM R., PROFESSOR, \$5.00
"Modern Perspective."
New York (66 Fifth Ave.): Macmillan & Co.

WHITTIER MACHINE CO.,

ELEVATORS,

53 STATE STREET - - BOSTON.

93 LIBERTY STREET, NEW YORK.

526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD

For all kinds of
PASSENGER AND FREIGHT ELEVATOR SERVICE.

OTIS BROTHERS & CO.,

NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,

ELEVATOR AND MACHINE WORKS,
COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.

STEAM AND HYDRAULIC,

For Freight and Passenger use.

ELECTRIC ELEVATORS. THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,
For passenger and freight service.
Large experience. Many in use.
First cost moderate.
Running Expense much less than Hydraulic.
Also makers of low-speed Perret Electric Motors and Dynamos.

General office and factory, Springfield, Mass.
NEW YORK OFFICE, 126 Liberty Street.
BOSTON OFFICE, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES,

For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate. References, Principal Architects and Decorators of New York.

AESCHLIMANN & PELLARIN,

37 CLINTON PLACE,

Between Broadway and University Place, New York.

SANITARY CONDITION OF
DWELLINGS examined by T. H. DUGGAN,
Plumber, 141 DARTMOUTH STREET, BOSTON.
Fine Plumbing Materials, First-class Workmanship.
Telephone call, Tremont No. 165.

UNEQUALLED!

THE F. O. NORTON CEMENT

Supports the largest New York Engineering and Architectural Works.

OFFICE, 92 BROADWAY, NEW YORK.

STANDARD ELEVATOR CO.,

HIGHEST GRADE

PASSENGER }
AND } ELEVATORS.
FREIGHT }

OFFICE AND WORKS,

15th Street and Ashland Ave.,

Chicago, Ill.

PENNELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.

PASSENGER AND FREIGHT ELEVATORS,
every description.

See our new Electric and Hydraulic before purchasing.

Works, Bloomsburgh, Pa.

Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.

GENERAL OFFICE, PALMER, MASS.

We contract to perform all labor and furnish all material of the different classes required to build complete

CHURCHES, HOTELS, MILLS, PUBLIC
BUILDINGS AND RESIDENCES.

Also for the construction of

RAILROADS, DAMS AND BRIDGES.

We solicit correspondence with those wishing to place the construction of any proposed new work under ONE CONTRACT, which shall include all branches connected with the work. To such parties we will furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO.,

STAINED GLASS & DECORATIVE WORK.

Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.

Sole Agents for

CLAYTON & BELL, GLASS STAINERS, LONDON.
61 Washington Square, South, New York, N. Y.

TIFFANY GLASS & DECORATING COMPANY.

FURNISHERS OF GLASS WORKERS DOMESTIC & ECCLESIASTICAL

DECORATIONS. GD MEMORIALS.

333 TO 341 FOURTH AVENUE NEW YORK

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHERE & CO.),

Importers and Workers of

MARBLE, ONYX AND GRANITE,

425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

ROBERT C. FISHER & CO.,

Successors to FISHER & BIRD,

MARBLE AND GRANITE WORKS,

97, 99, 101 and 103 EAST HOUSTON STREET,

Established 1830

NEW YORK

IN paint the best is the cheapest.—Don't be misled by trying what is said to be "just as good," but when you paint insist upon having a genuine brand of Strictly Pure White Lead

It costs no more per gallon than cheap paints, and lasts many times as long.

Look out for the brands of White Lead offered you; any of the following are sure:

- | | |
|-------------------------------------|--------------------------------------|
| "ANCHOR" (Cincinnati). | "JEWETT" (New York). |
| "ARMSTRONG & McKELVY" (Pittsburgh). | "KENTUCKY" (Louisville). |
| "ATLANTIC" (New York). | "JOHN T. LEWIS & BROS. CO." (Phila.) |
| "BEYMER-BAUMAN" (Pittsburgh). | "MORLEY" (Cleveland). |
| "BRADLEY" (New York). | "MISSOURI" (St. Louis). |
| "BROOKLYN" (New York). | "RED SEAL" (St. Louis). |
| "COLLIER" (St. Louis). | "SALEM" (Salem, Mass.). |
| "CORNELL" (Buffalo). | "SHIPMAN" (Chicago). |
| "DAVIS-CHAMBERS" (Pittsburgh). | "SOUTHERN" (St. Louis and Chicago). |
| "ECKSTEIN" (Cincinnati). | "ULSTER" (New York). |
| "FAHNESTOCK" (Pittsburgh). | "UNION" (New York). |

FOR COLORS.—National Lead Co.'s Pure White Lead Tinting Colors. These colors are sold in one-pound cans, each can being sufficient to tint 25 pounds of Strictly Pure White Lead the desired shade; they are in no sense ready-mixed paints, but a combination of perfectly pure colors in the handiest form to tint Strictly Pure White Lead. A good many thousand dollars have been saved property-owners by having our book on painting and color-card. Send us a postal card and get both free.

NATIONAL LEAD CO., New York.

CAS LIGHT



H. C. CHARLES & CO., 53 Dearborn St., CHICAGO.



Unequaled for all purposes for which Portland Cement is used. Tests and Testimonials of Engineers, and "How to Use Portland Cement," sent free on application. **BUCKEYE PORTLAND CEMENT CO.,** BELLEFONTAINE, OHIO.

Architects, Builders, and others will confer a favor on the Publishers by mentioning "The American Architect and Building News" when sending for circulars or corresponding with parties advertising in these columns.

Best Conductor of all. RITCHIE'S Corrugated Expanding Conductor.

Guaranteed no Infringement.

This pipe has all the advantages of other corrugated conductors in not bursting from freezing, and in addition:

It has no soldered joints. The enlarged coupling makes the conductor of even size inside throughout. It is galvanized, after formation, great care being taken to secure a smooth coating of zinc free from dross and impurities.

MANUFACTURED BY
LAMB & RITCHIE,
Boston Spiral Tube Works
CAMBRIDGEPORT, MASS.

GRAVES ELEVATORS

**SAFETY, SPEED AND
ECONOMY COMBINED**

NEW YORK
92 & 94 LIBERTY ST.
BOSTON
5 STATE ST.
DETROIT
HODGES BUILDING.
ATLANTA, GA.
INMAN BUILDING.

**GRAVES
ELEVATOR
CO.**
ROCHESTER, N.Y.
SEND FOR CATALOGUE.

**PORCELAIN LINED
REFRIGERATORS**
and Cooling Rooms under the
Wickes System.
Mechanical Refrigeration under
the Westinghouse System.
WICKES REFRIGERATOR COMPANY,
860 Broadway, N. Y.

Drawing-Office.

Drawings rendered in line or color with reasonable despatch.

ADDRESS

Editors of the American Architect.

BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
Foundation:	(Wholesale Prices.)	(Price to Builders and Contractors.)		
Dimension.....	5 00 @ 1 ton.	20 @		5 00
Block.....	4 60 @ per ch.			Conshocken
Rubble.....	1 25 @ 1 50	8 50 @		1 45 @ 2 50
Blue stone: (P sq. ft.)				
Sidewalk.....	30 @ 5 00	40 @ 1 75		1 in. th. 10 @ 25
Planed.....	50 @ ' 00	75 @		37 @ 50
Sandstone:				
Longmeadow.....	80 @	80 @ 90	1 50 @ eub. ft.	
Kibbe.....	90 @	90 @ 1 10	45 @ 50	
Brown (Connecticut).....	1 00 @	1 25 @ 1 45	45 @ 55	95 @ 1 05
Amherst Ohio.....	90 @ 95	90 @ 1 00	55 @ 65	1 05 @ 1 25
Berea.....	75 @ 1 00	85 @ 90	1 25 @	85 @ 95
Borlin.....	75 @ 1 00	80 @ 90		55 @ 75
Bellefonte.....	80 @ 1 25	25 @ 1 35		85 @ 95
New Brunswick (Dorchester).....	75 @ 1 00	75 @ 90		1 00 @ 1 10
Caen.....	1 05 @	2 00 @		1 05 @ 1 15
Carlisle, English.....	1 05 @	1 05 @	75 @ 1 00	1 25 @ 1 35
Corse Hill (Scotch).....	1 05 @	1 05 @	50 @ 1 00	95 @ 1 05
Marble: (P cu. ft.)				
Leo, Mass.....		1 75 @ 2 50	Not Sold.	2 00 @ 2 50
Rutland, white and blue.....		5 50 @ 6 50	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls.....	1 35 @ 1 75	2 00 @	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black.....			Not Sold.	4 00 @ 4 50
Italian, blue-veined.....			4 40 @	2 50 @ 2 75
" Sienna.....			Not Sold.	5 00 @
Tennessee, red.....			4 40 @	4 00 @ 6 00
" Knoxville.....			4 40 @	3 00 @ 4 00
Pennsylvania, blue.....			Not Sold.	2 00 @ 3 00
Vermont, white.....			3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (P square)				
" green.....	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 00
" unfading.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
" purple.....	5 00 @ 6 00	6 50 @ 7 10	6 50 @ 7 10	3 50 @ 4 50
" red.....	10 00 @	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
" black, Lehigh.....	4 25 @ 4 75		6 25 @ 6 85	25 @ 4 00
" Chapmans.....	6 00 @ 8 50	6 00 @ 8 50	7 30 @ 8 00	00 @ 4 65
" Unfading black, Brownville, Me.....	5 50 @ 8 00	5 50 @ 8 00	6 50 @ 9 50	6 60 @ 8 40
" Monson.....			6 00 @ 9 00	5 50 @ 8 00
Tiles, Am. ... P M.			Not Sold.	6 00 @ 6 75
N. Peach Bottom, warranted unfading.....			8 00 @	8 00 @
Fire Clay Roofing Tile on cars at factory	8 00 @	8 00 @	8 00 @	
PAINTS. (In Oil P lb.)				
White lead, Am.....	7 @ 7 1/2	6 @ 6 1/2	7 @ 7 1/2	@ 7 1/2
" zinc.....	5 @ 8 1/2	@ 8	5 @ 10 1/2	@ 7
Red lead, Am.....	6 1/2 @ 7	6 @ 6 1/2	6 1/2 @ 7	@ 7 1/2
" Venetian.....	6 @ 10 1/2	7 @ 12	1 1/2 @ 2 1/2	dry Eng. @ 7
" Vermillion.....	65 @ 70	60 @ 65 dry	65 @ 68	Eng. @ 76
" Indian, Eng.....	12 @ 20	12 @ 20	12 @ 20	dry Am. @ 1 1/2
Yellow Ochre.....	6 @ 15	7 @ 12	3 @ 15	@ 18
" Chrome.....	12 @ 20	18 @ 25	15 @ 25	@ 21
Green (chrome).....	8 @ 13	8 @ 20	8 @ 20	@ 20
Green, Paris.....	25 @ 40	25 @ 30	18 @ 35	@ 12
Blue, lamp.....	15 @ 25	15 @ 25	8 @ 20	@ 24
Blue, ultramarine.....	12 @ 18	18 @ 30	12 @ 35	@ 60
Oil, linseed, (raw).....	55 @ 62	53 @ 55	57 @ 60	@ 63
" " boiled.....	58 @ 65	56 @ 58	60 @ 63	@ 44
Turpentine.....	36 @ 37	@ 38	40 @ 42	@ 300
Varnish, coach.....	1 50 @ 6 00	1 25 @ 2 00	1 25 @ 2 00	125 @ 3 00
Shellac.....	2 50 @ 3 00	2 25 @ 4 00	2 25 @ 4 00	150 @ 3 00
Putty.....	2 @ 4	2 @ 4	2 @ 2 1/2	2 @ 2 1/2
Whiting.....	75 @ 1 00	1 @ 1 1/2	1 @ 1 1/2	@ 1
Paris white, (Eng.).....	1 30 @ 2 00	1 1/2 @ 2	1 1/2 @ 2	@ 2
Litharge, Am.....	5 1/2 @ 6	6 @ 6 1/2	6 1/2 @ 7	@ 7 1/2
Sienna (burnt).....	14 @ 20	14 @ 20	4 @ 16	4 @ 14
Umber.....	14 @ 20	14 @ 20	2 @ 10	2 @ 13
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought.)	@ 2 25	@ 2 00	2 35 @ 3 50	per keg @ 2 25
10d. common.....	@ 3 35	@ 2 40	@ 2 10	@ 2 30
Shingle.....	@ 4 85	@ 3 10	@ 2 80	3 60 @ 4 75
Lath.....	@	@	Add .60 to \$1.90	per lb. 4 @ 6
(Finishing nails according to size.)	@	@	" .40 to .50	Add per cask
(For casing nails add 75 c. per keg.)	@	@		2 90 (all kinds.)
Butts: 4" x 4" (P doz. pairs.)				
Plain.....	@ 1 00	@ 85	@ 90	@ 90
Japanned.....	@ 1 50	@ 1 25	Not Sold.	1 35 @ 2 00
Acorn, Japanned.....	@ 1 50	@ 1 50	2 00 @ 3 75	1 35 @ 2 75
Ball Tip, Boston Finish..... (P pair.)	@ 65	@ 40	Not Sold.	48 @ 50
Bronze metal.....	@ 1 90	plain 1 25	2 00 @ 3 25	@ 1 25
Brass (for cupboards).....	@ 10	@ 10	@ 12	@ 1 00
Ebony.....	@	@	@	@ 35
Apple wood.....	@	@	@	37 @ 1 00
Knobs: (P set.)				
Mineral, best.....	@ 8	@ 8	8 @ 10	@ 08
Lava.....	@ 50	@ 75	65 @ 80	Not Sold.
Hemlock.....	Not Sold.	17 @ 33	31 @ 40	25 @ 50
Porcelain.....	@ 30	@ 10	25 @ 30	@ 25
Glass, solid.....	Not Sold.	@ 50	Not Sold.	1 00 @ 2 50
Glass, silvered.....	Not Sold.	88 @ 1 00	@ 1 50	1 75 @ 2 00
Bronze metal.....	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass.....	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:				
Sheet Lead.....	@	@ 6 1/2	5 1/2 @ 6	13 1/2 @ 16
Lead Pipe.....	@	@ 5 1/2	@	@ 6 1/2
Iron:				
I-Beams, up to and including 30 ft.....	3 3-10 @ 3 1/2	@ 2 50	@	@ 2 8-10
do. over 30 ft., 1/2 c. adv. for every 5 ft.	3 3-10 @ 3 1/2	@ 2 50	2 50 @ 2 75	@ 2 8-10
Channel Beams.....	3 3-10 @ 3 1/2	@ 2 50	50 @ 2 75	@ 2 8-10

FOR INFORMATION ABOUT
U. S. MAIL CHUTES
 WHICH ARE
 A necessity in Office Buildings and Hotels,
 write to the sole makers,
THE CUTLER MFG. CO., ROCHESTER, N. Y.
 PATENTED. AUTHORIZED.



NATIONAL
Fine Art Foundry,
 218 East 25th Street, New York.
 Artists' Models cast in Standard Bronze
 Architects' Designs Executed.
 Artistic and Enduring Monuments
 in Granite and Bronze.
 No Catalogues.
MAURICE J. POWER.



TUBULAR
CHIME BELLS
 Harrington Patents.
 Established in England.
 Introduced here
 Lighter in Weight
 Sweeter in Tone
 Cheaper in Price
 Than the ordinary bell
 Catalogue with full descrip-
 tion.
U. S. Tubular Bell Co.,
 Methuen, Mass.

MARKS' ARTIFICIAL LIMBS.
 WITH RUBBER HANDS AND FEET,
 The most comfortable, durable and natural.



Although a man may lose both of his legs he is not necessarily helpless. By having artificial legs applied, with rubber feet attached, he can be restored to his usefulness.
 The engraving is from an instantaneous photograph of a man ascending a ladder; he has two artificial legs substituting his natural ones, which were crushed by a railroad accident and amputated. With his rubber feet he can ascend or descend a ladder, balance himself on the rungs, and have his hands at liberty. He can work at a bench and earn a good days wages. He can walk and mingle with persons without betraying his loss; in fact, he is restored to his former self for all practical purposes.
 With the old method of complicated ankle-joints these results could not be so thoroughly attained.
 Fifteen thousand in use, scattered in all parts of the world. Many of these have been supplied without pre-seeing themselves to the maker, simply by sending measurements on a formula which any one can easily fill out.
 RECEIVED THE HIGHEST AWARD AT
 WORLD'S COLUMBIAN EXPOSITION.
 Indorsed and purchased by the U. S. Government.
 A treatise of 430 pages and formula for measuring SENT FREE.

A. A. MARKS,
 701 Broadway, NEW YORK CITY.
 [Established 41 Years.]



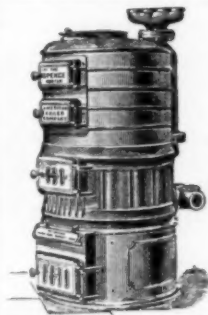
The Great
CHURCH LIGHT
 Frink's Patent Reflectors
 for Gas, Oil, or Electric, give
 the most powerful, softest,
 cheapest, and best light known
 for Churches, Stores, Banks, The-
 atres, Depots, etc. New and dis-
 creet designs. Send size of room.
 Get circular & estimate. A liberal
 discount to churches & the trade.
 Don't be deceived by cheap imitations.
I. P. FRINK, 351 Pearl St., N. Y.

Conservatories,
GREENHOUSES,
VINERIES,

Shipped to any part of the country, and erected
 complete, ready for use.
 Plans embrace the latest improvements.
 Unequalled facilities for manufacturing. Thirty-five
 years' experience. Catalogue sent on application.
 Address, stating requirements,

LORD & BURNHAM COMPANY,
 IRVINGTON-ON-HUDSON, N. Y.

THE H. B. SMITH COMPANY,
 MANUFACTURERS OF
HEATING APPARATUS,
 STEAM AND WATER,
 For Public Buildings and Private Residences.
SPECIALTIES:
 "THE UNION" Hot-water Radiators.
 BRECKENRIDGE'S Patent Automatic Air Valves.
 GOLD'S Improved Sectional Boilers.
 MILLS'S Safety Sectional Boilers.
 MERCER'S Patent Improved Sectional Boilers.
 REED'S Improved Cast-iron Radiators.
 GOLD'S Indirect Pin Radiators.
 Office and Warerooms, 137 CENTER ST., NEW YORK.
 Foundry, Westfield, Mass. Catalogues sent on Application.



HOUSE
HEATING
 BY
 Steam and Hot Water.

The ARCHITECT, STEAMFITTER and PLUMBER,
 All seem to be of one accord, and give our line of Heaters their approval, because they are
 SIMPLE IN CONSTRUCTION, ECONOMIC IN OPERATION,
 POWERFUL AND RAPID IN PERFORMING THEIR WORK.

Write for Price Lists.

American Boiler Company

SPENCE BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
 (TRADE MARK) 195 Ft. Hill Sq. 94 Center St. 84 Lake St. 127 6th St.

NOTICE TO ARCHITECTS.



This cut shows the additional width, strength
 and beauty of an eave finished with a hanging,
 expanding Gutter hung with
 "Berger's Favorite Hangers,"
 now superseding every other device.

BERGER BROS.,
 237 Arch Street, - PHILADELPHIA.

METAL
CEILING
 WRITE CATALOGUE
 FOR PRICES.
BERGER MFG CO. CANTON
 OHIO.

BUILDING MATERIALS.

Reported for the American Architect and Building News.

	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
LUMBER.—P. M.				
Boards: (Ordinary dimensions.)				
Pine, 1st quality, clear	65 00 @ 75 00	55 00 @ 70 00	42 00 @ 50 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	27 00 @ 38 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	20 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	@ 25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock	ea 13 1/2 @ 14	10 00 @ 15 00	@ 12 00	11 25 @ 13 50
Yellow pine	20 @ 40	23 00 @ 35 00	21 00 @ 34 00	14 00 @ 29 00
Cypress	@	28 00 @ 40 00	18 00 @ 34 00	@ 35 00
Clapboards:				
Pine	@	38 00 @ 55 00	19 00 @ 22 50	14 00 @ 25 00
Spruce	@	23 00 @ 38 00	Not sold.	Not sold.
Framing Timber:				
Pine	14 00 @ 18 00	14 00 @ 17 00	12 00 @ 17 50	25 00 @ 37 30
Spruce	12 00 @ 16 00	13 00 @ 15 00	Not sold.	16 00 @ 18
Hemlock	18 00 @ 21 00	20 00 @ 35 00	10 00 @ 13 00	13 00 @ 17
Yellow pine			24 00 @ 34 00	22 00 @ 28
Laths:				
Pine	Slab	2 25 @ 2 50	@ 2 40	2 75 @ 3
Spruce	1 55 @ 1 75	2 00 @ 2 50	Not sold.	2 30 @ 3 00
Shingles:				
Pine, shaved	P. M. 5 00 @ 6 00	@ 4 50	Not sold.	2 25 @ 2 50
Pine, sawed	" 4 00 @ 5 00	1 50 @ 2 00	Not sold.	Not sold.
Spruce, sawed	" 1 50 @ 2 00	3 25 @ 3 75	6 00 @ 7 50	30 00 @ 35 @ 40
Redwood	" 1 40 @ 1 60	@ 2 00	Not sold.	24 00 @ 35 @ 40
Cedar split	" @	2 00 @ 3 75	2 60 @ 2 75	20 00 @ 35 @ 40
Cedar sawed	" @	5 00 @ 6 00	3 50 @ 4 00	11 00 @ 14 00
Cypress, Split	" 7 x 24. "			
Miscellaneous:				
Piles	4 @ 5 1/2	Piles 6c. P. ft.	Cut to order.	
Fence pickets, Common	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 22 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts.) ..	@	25 @ 50	9 @ 21	40 @ 1 25
Chestnut posts	@	25 @ 50	Not sold.	20 @ 30
Finishing Woods: P. M. (First)				
Ash	@ 55 00	45 00 @ 60 00	14 00 @ 30 00	42 50 @ 47 50
Cherry	80 00 @ 120 00	30 00 @ 120 00	35 00 @ 30 00	100 00 @ 120 00
Butternut	40 00 @ 60 00	60 00 @ 70 00	17 00 @ 35 00	70 00 @ 80 00
Hard-pine floors (rift)	@ 180 00	160 00 @ 170 00	110 00 @ 170 00	150 00 @ 250 00
Mahogany, Baywood [Mexican]	@ 350 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
St. Domingo	45 00 @ 50 00	45 00 @ 50 00	12 00 @ 20 00	25 00 @ 55 00
Maple	@ 70 00	40 00 @ 50 00	17 00 @ 27 00	42 50 @ 55 00
Oak, red	@ 70 00	45 00 @ 55 00	16 00 @ 28 00	45 00 @ 55 00
" white	@ 90 00	65 00 @ 75 00	34 00 @ 40 00	60 00 @ 75 00
" quartered		50 00 @ 65 00	25 00 @ 28 00	57 50 @ 65 00
Sycamore quartered		65 00 @ 70 00	33 00 @ 50 00	@ 65 00
Pine, clear	60 00 @ 70 00	50 00 @ 75 00	40 00 @ 45 00	60 00 @ 75 00
Redwood	@ 6	32 00 @ 35 00	per M. 000 00	
Rosewood		85 00 @ 120 00		
Spruce floorboard, (kilm-dried).	125 00 @ 150 00	35 00 @ 45 00		
Walnut, black	45 00 @ 50 00	40 00 @ 42 00		
Whitewood	@ 45 00			
Yellow pine	P. M. @			

CLINTON WIRE-CLOTH CO.,

Sole Proprietors and Manufacturers of

WIRE LATH

DOUBLE TWIST WARP
STIFFENED (Iron furred)
CLINTON CORRUGATED

Plain, Japanned or Galvanized.

The Most Perfect and Economic System of FIREPROOF Construction.

SEND FOR CIRCULAR.

BOSTON, NEW YORK, CHICAGO, FACTORY,
199 Washington St. 76 Beekman St. 137 Lake St. CLINTON, MASS.



WORTHINGTON STEAM PUMPS

ARE THE STANDARD FOR
HYDRAULIC ELEVATOR AND HOUSE SERVICE.

Send for New Illustrated Catalogue.

Henry R. Worthington,

NEW YORK, 86 & 88 Liberty St.
BOSTON, 70 Kilby St.
PHILADELPHIA, 607 Arch St.
CLEVELAND, 24 South Water St.
CHICAGO, 185 to 189 Van Buren St.
ST. LOUIS, Eighth & St. Charles Sts.



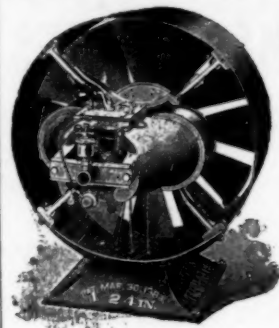
A BOON TO ARCHITECTS AND BUILDERS. THE MORSE PATENT WALL TIE.

Made from 3-16 in. galvanized steel wire; thickness where ends cross 1-4 in.
Secures Hollow Walls, Brick Facings, Terra Cotta, Etc.
Also made from 3-32 and 1-8 wire.

CHEAP, STRONG, RELIABLE.

Adopted by more than 400 Architects and Builders the past three seasons.
Write for samples, circulars, etc.

J. B. PRESCOTT & SON, Sole Mfrs., Webster, Mass.



THE SMITH
VENTILATING
FAN.

KEEP WARM
BY USING
THE SMITH
HOT BLAST
APPARATUS.

Both Manufactured by

THE HUYETT & SMITH MFG. COMPANY,

Heating and Ventilating Engineers,

DETROIT, MICH.

Write for Catalogue, mentioning this paper.

MCCRAY REFRIGERATOR AND COLD STORAGE CO.,

Cooling Rooms for public Institutions, Hotels,
Fine Residences, Groceries, and
Meat Markets.

KENDALLVILLE, IND.

CHICAGO OFFICE: 42-157 Washington St.

CATALOGUE

FOR 1894 OF
Architectural Books.

SEND FOR CLEARANCE CIRCULAR.

WM. T. COMSTOCK, Pub., 23 Warren St., N. Y.



NEW ENGLAND FELT ROOFING WORKS,

42 MILE ST., BOSTON.

Originators of Felt Roof-
ing in New England.

Inventors and only Manu-
facturers of the Celebrated

"BEEHIVE BRAND."

BURDITT & WILLIAMS,

Representatives of Leading Manufacturers of

Builders' Hardware.

Refer to the prominent Architects of Boston,
New York and Washington, as well as to many
of the finest Public Buildings and Residences
in all parts of the United States.

Branch Office, 20 Dock Square,
WASHINGTON, D. C. BOSTON, MASS.

Heliotype Printing Co.,

211 Tremont Street, Boston.

ESTABLISHED 1872.

• PHOTO-LITHOGRAPH.

• PHOTO-COLOR-LITHOGRAPH.

• PHOTO-GELATINE.

• PHOTO-GRAVURE.

• PHOTO-ENGRAVING.

COPIES OF ARCHITECTURAL,
MECHANICAL AND OTHER
DRAWINGS, MAPS, PLANS, ETC.,
PORTRAITS, VIEWS AND ALL
BOOK ILLUSTRATIONS.

Heliotype Printing Co.

BUILDING MATERIALS.

Common: Cargo afloat.

Pale.....

Jersey.....

Long Island.....

Up River.....

Haverstraw Bay 2d.....

" 1st.....

Hollow.....

Fronts:

Croton, Brown.....

" dark.....

" red.....

Chicago pressed (Anderson).....

" Moulded.....

Baltimore.....

Philadelphia.....

Trenton.....

Milwaukee.....

Moulded:

Glens Falls Red Pressed.....

" Buff.....

" Moulded Red & Buff.....

Enamelled: Imp.

Enamelled (edge).....

Enamelled (edge and end).....

CEMENT, LIME, etc.—(per cask.)

Rosendale Cement.....

Louisville.....

Utica, Akron, Buffalo, Milwaukee.....

Portland, English (Gibbs).....

" " (K. B. & S.).....

" " Black Cross.....

" " (Burnham).....

" " (White's).....

" French (Lafarge).....

" German (Alsen).....

" (Fower).....

" (Vorwöhler).....

" (Lagerdoff).....

" (Dyckerhoff).....

" (Hanover).....

" Stettin (Anchor).....

" American (Saylor's).....

Roman.....

Keene's coarse.....

" superfine.....

Lime:

Lime of Tell.....

Hydraulic Lime.....

Chicago Lime in bulk.....

Wisconsin Lime.....

Rockland and Rockport, (Conn.).....

Rockland and Rockport, finish.....

Kelley Island Lime, finish.....

State, com. cargo rates (nom.).....

Plaster of Paris (colined).....

" (casting).....

Hair (Cattle) & bush.....

" (Goat).....

Sand, & load.....

STONE. (per cubic foot, rough.)

Granite: (Maine)

Limestone:

Bedford.....

Joliet.....

Lemont.....

Serpentine.....

New York.

(Wholesale Prices.)

1 50 @ 1 75

3 75 @ 4 25

3 75 @ 4 50

4 00 @ 4 25

4 50 @ 5 25

@ 13 00

9 00 @ 12 00

10 00 @ 13 00

10 00 @ 13 00

37 00 @ 41 00

22 00 @ 23 00

@ 19 00

@ 37 00

@ 30 00

45 00 @ 70 00

85 00 @ 100 00

90 00 @ 115 00

80 @ 90

Not sold.

2 25 @ 2 50

2 50 @ 3 00

2 25 @ 2 50

2 50 @ 2 50

2 50 @ 3 00

3 60 @ 3 75

2 90 @ 3 25

2 25 @ 2 40

2 50 @ 2 90

2 60 @ 2 90

2 50 @ 3 00

2 35 @ 2 85

2 15 @ 2 25

2 75 @ 3 00

4 50 @ 5 30

5 00 @ 5 50

3 50 @ 4 00

@ 1 45

St. John

@ 85

@ 85

@ 1 00

@ 80

1 05 @ 1 10

1 40 @ 1 50

@ 1 60

18 @ 21

21 @ 25

1 00 @ 1 25

Boston.

(Prices)

Domestic Com.

8 50 @ 9 50

Domestic Face

18 00 @ 25 00

Philadelphia

35 00 @ 40 00

Phila. mould

50 00 @ 80 00

Enamelled B'k.

Imported.

Enam. (edge)

95 00 @ 105 00

" (edge & end)

115 00 @ 120 00

Domestic.

Enam. (edge)

90 00 @ 100 00

" (edge & end)

110 00 @ 115 00

1 15 @ 1 25

Brooks, S. & Co.

2 40 @ 2 75

2 40 @ 2 75

2 40 @ 2 75

2 40 @ 2 75

2 40 @ 2 75

3 00 @ 3 50

Cleopatra

2 40 @ 2 75

3 00 @ 3 50

Not Sold.

" "

" "

Not sold.

Not sold.

1 85 @ 2 00

@ 2 25

25 @ 30

@ 30

1 75 @ 1 90

@ 60

45 @ 1 25

1 00

10 50 per ton

50 @

35 @

3 @

@ 1 00

Chicago.

(Prices to Builders and

Building Brick

@ 5 50

Indiana Pressed

14 00 @ 20 00

St. Louis Fronts

@ 27 00

15 00 @ 27 00

65 00 @ 350 00

@ 55 00

45 00 @ 50 00

45 00 @ 50 00

25 00 @

60 00 @ 100 00

30 @

35 @

55 00 @ 65 00

@ 100 00

@ 120 00

Not sold.

1 05 @ 1 15

1 00 @ 1 10

3 00 @ 3 10

3 00 @ 3 25

3 00 @ 3 25

2 90 @ 3 15

3 00 @ 3 25

3 75 @ 4 25

@ 3 20

3 20 @ 3 40

2 75 @ 3 00

3 25 @ 3 50

Not sold.

Not sold.

2 60 @ 2 70

2 75 @ 3 25

6 00 @ 7 00

9 00 @ 10 50

Not sold.

60 @ 70

60 @

Not sold.

Not sold.

1 00 bulk, 75c.

CABOT'S CREOSOTE SHINGLE STAINS



Loring & Phipps Arch'ts Boston

Don't specify paint for shingles; it isn't artistic. Don't specify a Stain that will turn black in a few years, because it looks dirty and you have to paint it over to change the color. Specify a stain that will hold its color and grow old gracefully—like Cabot's, which was the first shingle stain ever made, and is now, as always, first in durability, first in economy, and first in favor with those who have used it. *Every gallon guaranteed.*



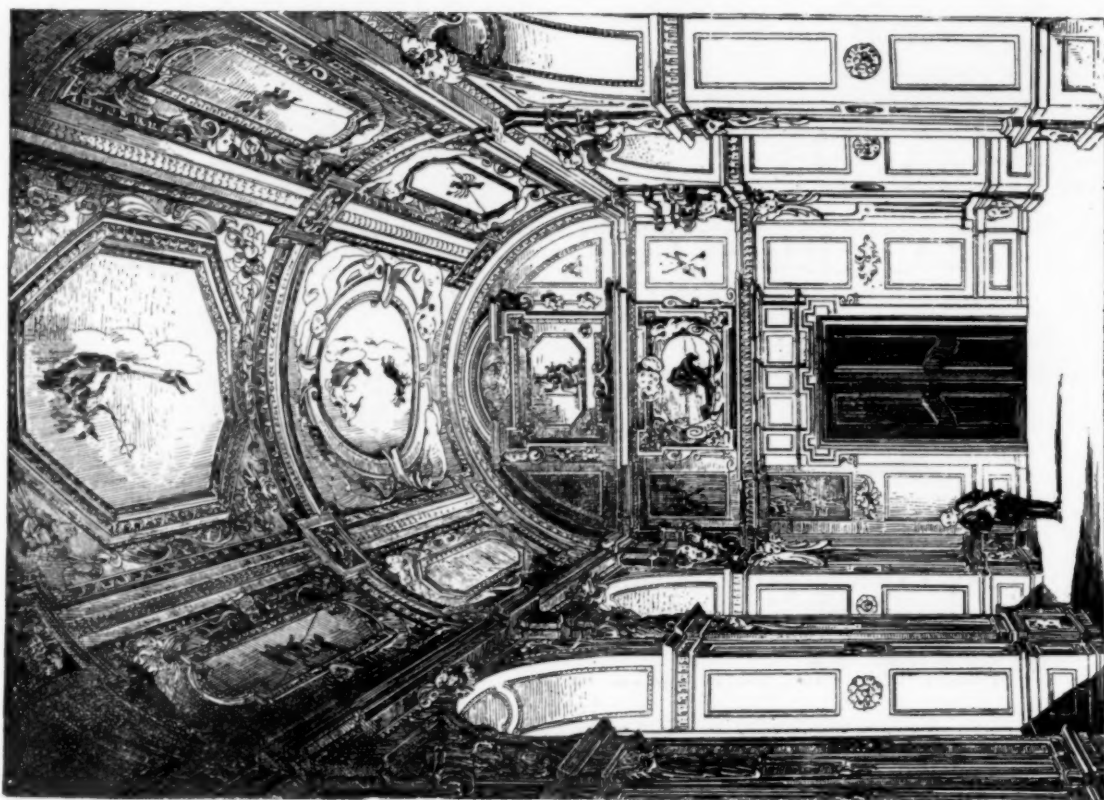
SUMMER COTTAGE
THOUSAND ISLANDS
FOR ARCHT. 19



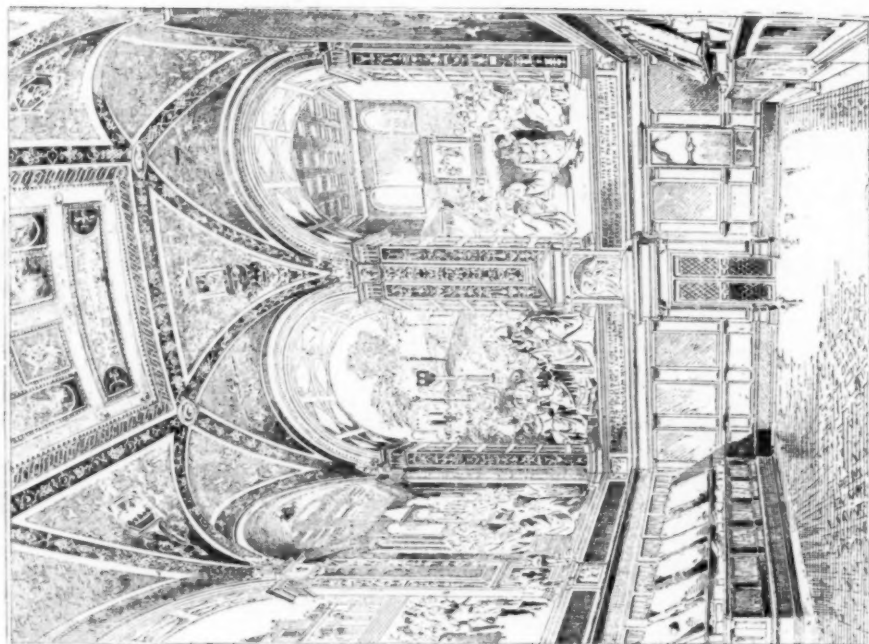
Large or small wood samples, circulars and water-color reproductions of color schemes, sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

Agents at all Central Points. 70 Kilby St., BOSTON, MASS.



Vestibule of the Palace Waldstein, Prague.



Interior of the Library, Siena, Italy.

INTERIOR DECORATION.

OKONITE INSULATED ELECTRIC LIGHT WIRES.



TRADE MARK
WILLARD L. CANDEE,
H. DURANT CHEEVER, } Managers.
GEO. T. MANSON, Gen'l Supt.
W. H. HODGINS, Sec'y.

The Okonite Wire is pronounced by Architects to be a **SAFE, DURABLE and EASILY ADJUSTED WIRE**, for the **INSIDE WIRING** of PUBLIC and PRIVATE BUILDINGS.
AWARDED A GOLD MEDAL AT THE PARIS EXPOSITION.

BRANCHES: Boston, Philadelphia, Chicago, Omaha, Cincinnati, Minneapolis, San Francisco, Louisville, St. Louis, Kansas City, South America, London.

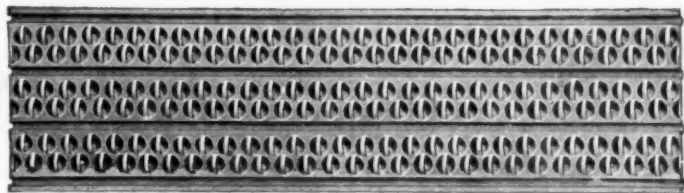
THE OKONITE COMPANY, L'T'D,

Send for Catalogue and Prices.

13 Park Row, New York.



"Piqua" Steel Lath.

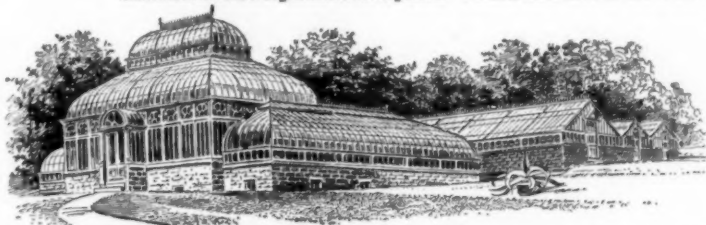


"Piqua" Lath is made from the best quality of steel, in sheets $27\frac{1}{4} \times 48$ inches, and each sheet covers exactly one square yard of surface. The corrugations shown in cut are $3\frac{1}{4}$ inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.



HITCHINGS & CO., Established 50 years.
HORTICULTURAL ARCHITECTS AND BUILDERS
and largest Manufacturers of
GREENHOUSE HEATING AND VENTILATING APPARATUS.



Conservatories, Greenhouses, Palm Houses, etc., erected complete with our patent Iron Frame Construction. Plans and Estimates of cost and illustrated catalogues sent on application.

233 MERCER STREET, N. Y.



CHARLES I DEMANDING THE FIVE IMPEACHED MEMBERS.

From the painting by

JOHN SINGLETON COPLEY, R. A.,

IN THE BOSTON PUBLIC LIBRARY.

A few copies of the excellent heliotype made of this fine historical picture, 11×16 inches, printed on heavy plate paper, 22×28 inches, with key to the portraits, are for sale.

Price . . \$3.00 each.

Sent carefully wrapped and postpaid, on receipt of price.

WALTER ROWLANDS,
211 Tremont Street, BOSTON.

PERSPECTIVE DRAWINGS.

During the current year Pen-and-Ink or Water-color Perspective Drawings have been rendered in the

DRAWING OFFICE

OF THE

"AMERICAN ARCHITECT"

For the Following Architects.

BOSTON.

Peabody & Stearns.
Winslow & Wetherell.
Shepley, Ruten & Coolidge.
C. Brigham.
Wait & Cutter.
Blackall & Newton.
Longfellow, Alden & Harlow.

SPRINGFIELD, MASS.

Gardner, Pyne & Gardner.

WORCESTER, MASS.

G. H. Clemence.

PROVIDENCE, R. I.

Stone, Carpenter & Willson.

ALBANY, N. Y.

Fuller & Wheeler.

BUFFALO, N. Y.

C. D. Swan.

PHILADELPHIA, PA.

G. T. Pearson.

BALTIMORE, MD.

Wyatt & Nötting.
J. A. & W. T. Wilson.
J. E. Sperry.

PITTSBURGH, PA.

F. J. Osterling.
W. S. Fraser.

YORK, PA.

J. A. Dempwolf.

LYNCHBURG, VA.

E. G. Frye.

MINNEAPOLIS, MINN.

W. D. Dunnell.

TORONTO, CANADA.

Strickland & Symons.

ST. JOHNS, NEWFOUNDLAND.

J. Wills & Son.

And others.

SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.**Slate, Copper, Tin and Gravel Roofing.****Nos. 20 and 22 EAST STREET, BOSTON.**Order Box at Master Builders Association,
164 Devonshire Street.Special attention given to Repairs
of all kinds.

Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs, acknowledged to be the strongest method in use, and has been applied to many of the best constructed and largest buildings in this country.

*Contracts made for Work wherever desired.***ASPHALT ROOFING AND PAVING MATERIALS.**WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.
Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO. 81 & 83 Fulton Street, NEW YORK, U. S. A.

Send
for
Samples.

If you SPECIFY

**SAMSON SPOT CORD**

You can tell at a glance that no other cord is substituted. It is warranted to be of pure Cotton, smooth finish and perfect braid.

Samson Cordage Works, Boston, Mass.**JACKSON VENTILATING GRATES**

Will each heat an entire residence Spring and Fall, as they introduce warm, pure air, and give over four times the heat of other open fires.

Send for Catalogue B.

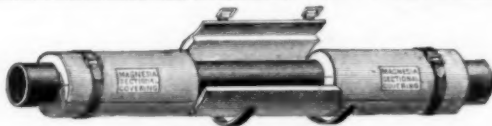
EDWIN A. JACKSON & BRO., 50 Beekman Street, New York.

**YALE LOCKS****BLACKCROSS PORTLAND CEMENT**

IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,

IMPORTERS ROMAN, KEENE'S, VICAT CEMENTS, ENGLISH GLAZED BRICKS. 23 Liberty Street, NEW YORK.



Absolutely Fire-proof.

**MAGNESIA**

SECTIONAL

STEAM PIPE AND BOILER COVERINGS.

THE GREAT COAL-SAVER.

MANUFACTURED BY

The Keasbey & Mattison Company,CINCINNATI:
114 West Second St.AMBLER,
PA.CLEVELAND:
117 Water St.

SELLING AGENTS:

Boston, S. C. Nightingale & Childs, 134 Pearl St.
New York, Robert A. Keasbey, 54 Warren St.
Philadelphia, Macan & Co., 1420 Callowhill St.
Baltimore, Wallace & Bro., 432 E. Pratt St.
Washington, Wm. B. Morgan, Builders' Ex'c.
New Orleans, Delbert Engineering Co., 23 Union St.
Memphis, Symmes & Co., 192 Front St.Milwaukee, F. Sprinkman, 133 Sycamore St.
Louisville, W. W. Hite & Co., 176 Fourth St.
St. Louis, F. Boelter, 108 Walnut St.
Detroit, S. P. Conkling, 20 Atwater St., East.
Denver, C. W. Badgley & Co., 18th & Market Sts.
Salt Lake City, Utah & Montana Machinery Co.
Butte City, Mont., E. W. James.
San Francisco, DeSolla & Daussing, 2 California St.*The only Rubber Insulation Awarded Medal at World's Fair, Chicago, U. S. A., 1893.***High Grade Insulated Wires for Interior Use****Electric Light Wires and Feeders.**

Kerite Tape.

WRITE FOR CATALOGUE.

Kerite Elastic Tape.

W. R. BRIXEY, Manufacturer, 203 Broadway, NEW YORK.**ASPHALT FLOOR ROOF SIDEWALKS AND CARRIAGE.**

Of Public Buildings, Hospitals, Warehouses, Stables, Cellars, etc.

Laid with VAL de TRAVERS ROCK ASPHALT,

DURABLE, FIREPROOF AND IMPERVIOUS.

For estimates and list of works executed, apply to
THE NEUCHÂTEL ASPHALT CO., Limited,
265 BROADWAY. - - - NEW YORK.**Brown's Patent Seamless DRAWN COPPER HOUSE BOILERS.**

Cannot collapse.

Will not leak.

Ordinary boiler tested to 200 lbs.

Extra heavy tested to 300 lbs.

Made of two seamless drawn copper shells.

Handsome, best and strongest in the market.

Send for circular giving instructions for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES,

Waterbury, Conn.

Western Depot: 71 West Washington St., Chicago. Branch Offices: 104 John St., New York; Room 320 Philadelphia Bank Building, Philadelphia; 99 Milk St., Boston; Room 208, Neave Building, Cincinnati.

Proprietors of the Brown & Bros. Tubing and Boiler Works, and the Brown & Bros. Brass and Copper Rolling Mills.

Makers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

**VALVES.**

You can try and experiment with all kinds of valves, and then as a last resort

TRY THE

JENKINS BROS' VALVES,

and if you do not get more satisfaction than from any other make, your money will be refunded. All our valves are fitted with our new HIGH PRESSURE disc, suitable for high or low pressure.

New York. Chicago. JENKINS BROS. Philadelphia. Boston.

Chicago Interior Decorating Co.*Bank, Office & Club Equipments.***Mantels, Tiles, Ceramic Mosaics FINE SPECIAL FURNITURE.**

Highest grade of first class goods.

Drawings and Estimates furnished upon application.

149 & 150 Michigan Ave., Chicago, Ill.

Formerly occupied by the **Henry Dibblee Co.****BLAKE BELL CO.**

Successors to Wm. Blake & Co.

Bell Founders and Brass Finishers.

Castings in any metal except iron.

Monumental Tablets, Artistic Brass Work.

Allen and Brighton Sts., BOSTON.

J-W-TAYLOR'S PHOTOGRAPH SERIES.

151 MONROE ST. CHICAGO 1 OF AMERICAN ARCHITECTURE.

Removed to Owings Building.

Send two 5 cent stamps for Catalogue.

PARQUET FLOORS.**The National Wood Manufacturing Co.,**

129 5th Avenue, New York.

WAINSCOTINGS AND CEILINGS.

Inlaid Wood Floors 5-16 and 7-8 inch thick.

Solid work, Tongued and Grooved in each piece.

Designs & Estimates on application. Established 1867.



POINTS ON VARNISH.

NO. 270.—“WEARS JUST AS LONG, AND COSTS LESS.”

Of course, that is nearly always true. The element of style enters into the cost of almost everything that people buy. If you do not care to be in the height of the fashion you can buy a bonnet or a coat or a piano or a carriage, that will wear just as long, for less money. People are so accustomed to different prices for goods of the same wearing value that they imagine there are no exceptions to the rule. Varnish is an exception. There's no Blucher or Parisian cut on varnish. The only cut is the cut-away from wearing value.

You can put silver plating on an iron spoon until it will be for all practical purposes a silver spoon, and will wear you a lifetime; but varnish is not made that way. It is like a color which holds or fades. If you make a gallon of soup with one oyster and swallow the whole of it you only get the strength of one oyster. There's abundance of soup-varnish, as weak as you ever bought at a church so-cial. T. W. F. is not made that way. It is like a plate-glass without flaw.

MURPHY VARNISH CO.
FRANKLIN MURPHY, President.

Head Office: Newark, N. J.
Other Offices: Boston, Cleveland, St. Louis, Chicago.
Factories: Newark and Chicago.

TO ARCHITECTS:

If you desire to recommend a firm as one thoroughly capable of supplying complete furnishings for a hotel, club-house or private residence, you can mention us with confidence.

We supply CARPETS, RUGS, UPHOLSTERY FABRICS, FURNITURE, ETC., ETC.

Our goods are right; our prices are right.

We make a specialty of private and exclusive patterns which cannot be duplicated elsewhere.

John H. Pray, Sons & Co.,
658 Washington Street,
Opposite Baylston Street,
BOSTON.

F. W. DEVOE & CO.

(Established 1852.)

Fulton St., cor. William, New York.
No. 176 Randolph St., Chicago.

Pure Ready-mixed Paints.

We desire to call attention of consumers to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fireproof." We use no secret or patent method in manufacturing them by which benzine and water are made to serve the purpose of pure linseed-oil.

Sample cards, containing fifty desirable shades sent on application.

FINE VARNISHES.

Hard Oil-Finish & Wood-Stains.

Illustrated Catalogue of Engineers' and Architects' Supplies, 250 pages, 700 Illustrations, on request.

White-Lead Colors in Oil and Japan.

THE DECORATIVE GLASS

In Abbey's Theatre, N. Y., and Keith's Opera House, Boston, are examples of Renaissance and Rococo designs, the movement, carried out entirely in our hard metal settings.

METALLIC SETTING CO.,
137 Weybosset St., PROVIDENCE, 5 Park Sq., BOSTON.

H. W. JOHNS' SHINGLE STAINS

Prepared ready for use from the Purest Pigments and best Wood Preservative known. We will send upon request a full set of samples on wood, showing Silver Grays, Moss Greens and many handsome weather stained effects. These are permanent, durable stains.

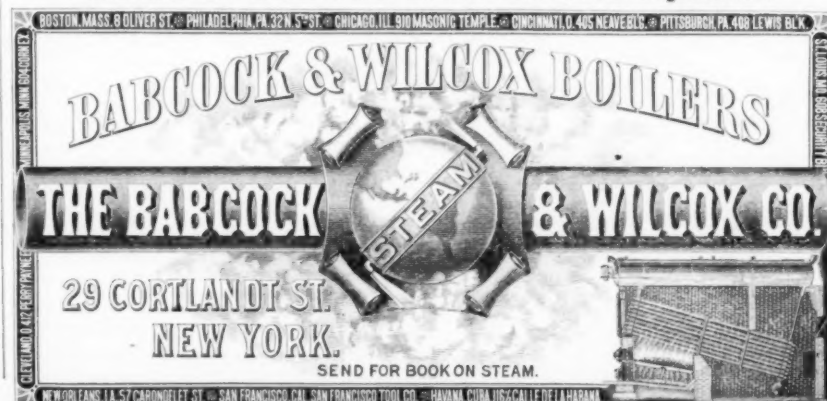
H. W. JOHNS M'FG CO., 87 MAIDEN LANE, NEW YORK.
NEW YORK, JERSEY CITY, CHICAGO, PHILADELPHIA, BOSTON.



STAMPED STEEL CEILINGS
MANY DESIGNS
H. S. NORTROP
Manufactures,
30 ROSE ST
NEW YORK

JOHN WILLIAMS, 544 to 558 West 27th Street, New York.
WROUGHT IRON AND BRASS WORK TO SPECIAL DESIGNS ONLY.
REFERENCES: Tiffany & Co., N. Y.; Cottier & Co., N. Y.; L. Marcotte & Co., N. Y.; McKim, Mead & White, N. Y.; Babb, Cook & Willard, N. Y.; Bruce Price, N. Y.; R. M. Hunt, N. Y.; Bailey, Banks & Biddle, Phila.; Frank Hill Smith, Boston.; A. H. Davenport, Boston.

Awarded the Grand Prize at the late Paris Exposition.



BABCOCK & WILCOX BOILERS
THE BABCOCK & WILCOX CO.
29 CORTLANDT ST.
NEW YORK.
SEND FOR BOOK ON STEAM.

NEW ORLEANS, LA. 57 CARondelet St. SAN FRANCISCO, CAL. SAN FRANCISCO TOOL CO. HAWAII, CUBA, 116 CALLE DE LA HABANA.

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING, DREXEL BUILDING, MONADOCK BUILDING, DASHWOOD HOUSE,
NEW YORK. PHILADELPHIA. CHICAGO. LONDON.



Announce to all who contemplate *building or renovating Hotels, Office Buildings or Residences*, that they have formed a department in their extensive works for
**Architectural Woodwork,
Fine Cabinet Work, and
Interior Finishing.**

Plans, designs, specifications and further particulars will be submitted on application. Address **WORKS AT WILMINGTON, DEL.**

THE "GORTON" BOILER,

For STEAM and HOT-WATER HEATING.

ECONOMICAL IN FUEL, AUTOMATIC, SELF-FEEDING.

A STEEL SECTIONAL TUBULAR BOILER.

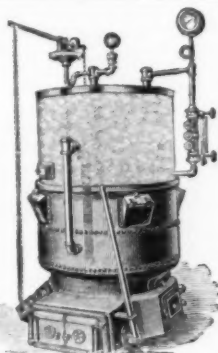
Correspondence solicited from Architects and those interested in Heating Large or Small Buildings.

Our New Book on MODERN HOUSE HEATING furnished on application.

GORTON & LIDGERWOOD CO.,

96 LIBERTY STREET, NEW YORK.

197 to 203 Congress St., Old Colony Bldg., Van Buren and Dearborn Sts.,
BOSTON. CHICAGO.



JAMES A. MILLER & BRO.

129 & 131
S. CLINTON ST.
CHICAGO

SLATE TIN AND IRON ROOFERS	CORRUGATED IRON FOR ROOFING AND SIDING.	GALVANIZED IRON CORNICES
THE HAYES SKYLIGHT.	CORRUGATED CONDUCTOR PIPE.	WARRANTED NOT TO BURST WHEN FULL OF ICE.

DIXON'S GRAPHITE PAINT

FOR TIN OR SHINGLE ROOFS AND IRON WORK. Tin roofs well painted have not required repainting for 10 to 15 years.
IT IS ABSOLUTELY WITHOUT AN EQUAL.

If you need any paint it will pay you to send for circular.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

BUILDING INTELLIGENCE.

(Advance Rumors Continued.)

Paul Railroad will build freight and passenger depots.

Washington, D. C. — A syndicate of Boston capitalists propose to build a model livery stable, to cost about \$75,000.

Wayne, Neb. — Plans are being made for a court-house to cost not over \$40,000.

Woonsocket, R. I. — A new court-house and a new city-hall are under consideration.

ALTERATIONS AND ADDITIONS.

Brooklyn, N. Y. — Flatbush Ave., Nos. 148-150, 2 brick stores and flats, tin roofs, 40' x 68'; internal and other alterations; \$5,000; own., G. F. & E. C. Swift, Ames Building, Boston; arch., W. B. Page, Ames Building, Boston; bld., Selser & Rennie, 253 Broadway, New York City.

High St., No. 219, one-st'y brick and stone church, slate roof, 50' x 65'; two-st'y stone extension, slate roof, 18' x 65', to be added, internal and other alterations made; \$5,000; own., St. Michael's Church, 219 High St.; arch., Withers & Dickson, Bible House, New York City.

Camden, N. J. — Friends Ave., No. 334, two-st'y rear addition to dwell.; con., Reuben C. Cross, Arch St., bet. 4th and 5th Sts.

Seventh and Liberty Sts., alterations to oil-cloth factory; own., Farr & Bailey.

Charleston, S. C. — Meeting St., alterations to Charleston Hotel; \$15,000; own., Charleston Hotel Co.

Chicago, Ill. — J. E. Haginbourg, addition, 510 Fullerton Ave.; \$3,000.
Mrs. Springleider, brick addition, 945 North Clark St.; \$4,000.

BUILDING INTELLIGENCE.

(Alterations and Additions Continued.)

Germantown, Pa. — Tulpehocken St., No. 47, three-st'y addition to dwell. and bay-window; property will be remodelled throughout; about \$10,000; own., General Louis Wagner; con., George F. Payne & Co., 401 South Juniper St., Philadelphia; arch., Moses & King, 431 Walnut St., Philadelphia.

New Haven, Conn. — Highland St., brick addition to the St. Francis Orphan Asylum; \$40,000.

APARTMENT-HOUSES.

Boston, Mass. — West Fifth St., No. 11, Ward 13, three-st'y brick apart., flat roof, 35' x 37'; \$9,000; own., John Gormley; bld., Jas. A. Flanagan; arch., J. F. & G. H. Smith, 22 School St.

Chicago, Ill. — Charles Westergren, three-st'y brick flats, 1629 Superior Ave.; \$4,000.

A. Anderson, two-st'y brick flats, 518 Evergreen Ave.; \$4,500.

H. Staab, two-st'y brick flats, 675 Dana Ave.; \$3,500.

S. T. Kaminski, two-st'y brick flats, 111 Davis St.; \$6,000.

Kies & Tromm, two-st'y brick flats, 4886-4888 Champlain Ave.; \$7,000.

J. B. Shutterly, three-st'y brick flats, 346 Fifty-first St.; \$20,000.

John Burns, two-st'y brick flats, 1648 Fulton St.; \$5,000.

H. Travers, two-st'y brick flats, 945 Trumbull Ave.; \$4,500.

W. E. Diebler, two-st'y brick flats, 933 Turner Ave.; \$6,000.

John A. Brown, four-st'y brick flats, 3123-3129 Groveland Ave.; \$29,000.

George Kammerer, two-st'y brick flats, 904 Central Park Ave.; \$3,300.

John Shaw, two-st'y brick flats, 52 Weage Ave.; \$3,000.

ARCHITECTURAL DRAWING



DIPLOMAS AWARDED. Courses in other trades, all including thorough instruction in Mathematics and Physics. Send for FREE circular stating subject you wish to study to **The Correspondence School of Industrial Sciences, Scranton, Pa.**

BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

Theo. Pike, 4 two-st'y brick flats, 693-703 Rockwell St.; \$12,000.

W. F. Sharp, two-st'y brick flats, 2089 Adams St.; \$3,000.

Frank Kilekowskl, three-st'y brick flats, 1001 Elk Grove Ave.; \$3,000.

H. Kloth, two-st'y brick flats, 513 Thomas St.; \$4,300.

C. Knopp, two-st'y brick flats, 509 Thomas St.; \$4,300.

William Schick, 3 two-st'y brick flats, 604-606 Burling St.; \$9,000.

Dr. H. S. Sparrow, three-st'y brick flats, 9125 Erie Ave.; \$3,000.

John Darome, two-st'y brick flats, 514 Drummond Ave.; \$4,000.

C. A. Londellus, two-st'y brick flats, 5948 Calumet Ave.; \$4,000.

N. Christenson, three-st'y brick flats, 478 West Ohio St.; \$7,000.

New York, N. Y. — Mott Ave., w. s. 50' s 150th St., 2 four-st'y brick flats, flat tin roof, 25' x 68', 49' high; \$32,000; own., James T. Barry, 1498 Valentine Ave.; arch., Neville & Bagge, 217 West 125th St.

Ninety-fifth St., Nos. 217 to 235, 10 five-st'y brick flats, flat tin roofs, 25' x 72', 28' high; \$160,000; own., Joseph Schloper, 28 East 81st St.; arch., Charles Stegmayer, 306 East 82d St.

Hester St., No. 190, six-st'y brick flats, flat tin roof, 25' x 86', 70' high; \$18,000; own., Louis P. Klek, College Point, L. I.; arch., M. C. Merritt, 1267 Broadway.

One Hundred and Twenty-fifth St., s. s. 125' e Amsterdam Ave., 4 five-st'y brick flats, flat tin roof, 25' x 87' 6", 57' high; \$72,000; own., Jos. Romaine Brown, 614 West 152d St.; arch., Henry Fouchaux, 918 St. Nicholas Ave.

Eighty-third St., n. s. 200' w Amsterdam Ave., five-st'y brick flats, flat tin roof, 25' x 92', 58' high; \$25,000; own., Hallahan & Hearn, 1790 Park Ave.; arch., John C. Burne, 101 West 42d St.

Washington, D. C. — Virginia Ave., s. e. cor. 7th St., four-st'y brick and stone apart.; own., Robert Portner; arch., C. A. Didden, 709 Thirteenth St.

CHURCHES.

Buffalo, N. Y. — Delaware Ave., e. s. 300' s Utica St., brick and stone church; \$100,000; own., Delaware Ave. Baptist Society; arch., John H. Coxhead.

Louisville, Ky. — St. Paul's Church will build a new house of worship, to cost about \$45,000; arch., Maury & Dodd.

Philadelphia, Pa. — Watkins St., s. w. cor. 9th St., stone and brick church, 40' x 64', to be known as the First Church of the Evangelical Association of North America; arch., H. K. Warren, s. w. cor. Oxford and Carlisle Sts.

Lansdowne Ave. and Fifty-fourth St., West Park Presbyterian Church, 80' x 110, Avondale stone with Indiana limestone trimmings, timber roof, octagonal stone tower over 100' in height; arch., Charles W. Bolton, 1510 Chestnut St.

Pepper, Sepriva and Tucker Sts., two-st'y brick church, 50' x 89', for the Wesley Episcopal Congregation; arch., Frank R. Watson; superintendent, Joseph Achuff, 2348 Sergeant St.

Pittsburgh, Pa. — Lincoln and Meadow Sts., brick Lincoln Ave. M. E. Church; \$28,000; arch., Charles Bickel; bld., C. Stevenson.

Reading, Pa. — Stone and brick Reformed Church; arch., Charles W. Bolton, 1510 Chestnut St., Phila.

CLUB-HOUSES.

Fox Chase, Pa. — Devereaux St., s. s. e Oxford and Kensington Pike, two-st'y frame club-house, 24' x 42'; con., Joseph Ashley.

EDUCATIONAL.

Ardmore, Pa. — Two-st'y stone and brick school, on lot near the station owned by the Merion Title and Trust Co.; arch., D. J. Elhean.

Buffalo, N. Y. — A school-house will be built on Winslow and Wohler Aves.; August C. Esenwein, architect, 316 Pearl St.

Chester, Pa. — Eighth and Broad Sts., four-st'y stone grammar school, 77' x 105'; arch., Edwin F. Bertolett, 1216-18 Filbert St., Philadelphia.

Philadelphia, Pa. — Woodland Ave. and Seventieth Sts., brick and stone Sunday-school building, 30' x 100'; con., Howard W. Urian, 5318 Woodland Ave.

ENGINE-HOUSES.

Cincinnati, O. — York St., brick and stone police and patrol wagon stations; \$30,000; arch., Saml. Hannaford & Sons.

Iron-Work.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,
BEAMS, CHANNELS, ANGLES, ZEEs, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.Round, Square and Flat Bars
of all sizes.

SPECIALTIES:

PHENIX COLUMNS AND UPSET EYE-BARS
Of all sizes, in Iron or Steel.ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.

AGENTS:

New York: EDWARD CORNING & Co., 29 Broadway.
Chicago: A. C. STITES, 931 Rookery Building.
Boston: EDWARD CORNING & Co., 70 Kilby Street.PASSAIC ROLLING MILL CO.,
PATERSON, N. J.STEEL BEAMS 4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

NEW YORK OFFICE, - - 45 BROADWAY

BELMONT IRON WORKS, Limited.

Successors to

MANLY & COOPER MANUFACTURING CO.

Ornamental

AND

Architectural
IRON.Twenty-Second Street and Washington Ave
PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

FACTORIES.

Camden, N. J. - Atlantic Ave., s. s. e. Ferry Ave.,
one-st'y frame factory, 20' x 30'; own., C. Smith, Jr.
Philadelphia, Pa. - Point Breeze, one-st'y brick
experimental building; also two-st'y can factory,
28' high, 120' long; also two-st'y stone and brick
filling house wall, 29' high and 155' long; own.,
Atlantic Refining Co., s. e. cor. Chestnut and 4th Sts.
Chadwick St., s. e. cor. Mifflin St., three-st'y store
and brick macaroni factory, 35' x 50'; con., Mowbray
Bros., 1826 South Broad St.

HOUSES.

Chestnut Hill, Pa. - Plans have been prepared by
Tritten & Lockington, architects, 502 Walnut St.,
Philadelphia, for a dwell. of colonial style of archi-
tecture.Chicago, Ill. - A. J. Stebbins, two-st'y frame dwell.,
7351 Webster Ave.; \$5,000.Howard Decker, two-st'y frame dwell., 668 Ken-
more Ave.; \$6,000.L. Eastman, two-st'y frame dwell., 36 Buena Park
Terrace; \$3,000.R. A. Waller, two-st'y brick dwell., 1606 Alexander
Ave.; \$5,000.E. S. Camp, 6 two-st'y brick dwells., 6851-6859
Calumet Ave.; \$12,500.E. S. Camp, 3 two-st'y brick dwells., 69th St. and
Calumet Ave.; \$6,000.Germantown, Pa. - Six dwells., stone fronts; about
\$5,500 each; arch., Tritten & Lockington, 502 Wal-
nut St., Philadelphia.Lansdale, Pa. - Three frame and brick dwells.;
about \$9,000; arch., Tritten & Lockington, 502 Wal-
nut St., Philadelphia.Lansdowne, Pa. - Three-st'y stone and frame dwell.;
own., Dr. Joseph W. White; arch., Morgan Bunting,
1215 Filbert St., Philadelphia; con., I. Walter
Thompson.Lawndale, Pa. - Plans have been prepared by
Tritten & Lockington, architects, Philadelphia, for
4 semi-detached houses.Philadelphia, Pa. - Chester Ave., s. w. cor. 46th St.,
brick dwell.; own., Robert A. Pitts; con., John
Airey, Chester and 48th Sts.St. Louis, Mo. - Two-st'y dwell., 28' x 52', n. s. Vernon
St., bet. Academy and Credeu Sts.; \$5,000; own.,
W. Dunnerburg.Two-st'y dwell., 38' x 47', n. s. McPherson St., bet.
Taylor and Euclid Sts.; \$8,000; own., L. Blessing.Two-and-one-half-st'y dwell., 47' x 48', s. s. Forest
Park Boulevard, bet. Newstead and Taylor Sts.;
\$10,000; own., W. H. Mittenburger.

MERCANTILE BUILDINGS.

Pittsburgh, Pa. - Penn Ave., near 8th St., brick and
stone business block; \$31,000; own., W. I. Howland,
41 Wabash Ave., Chicago; arch., H. I. Cobb, Chicago;
bid., Murphy & Hamilton.

PUBLIC BUILDINGS.

Mankato, Minn. - City hall and library; \$30,000;
arch., Harry W. Jones, Minneapolis, Minn.

STABLES.

New York, N. Y. - East Fifty-fifth St., No. 154, five-
st'y brick stable, flat asphalt roof, 24' x 100', 60'
high; \$14,000; own., Isaac Griggs, 1164 Third Ave.;
arch., A. B. Ogden & Son, 1031 Madison Ave.Sixty-seventh St., n. s. 150' w. 2d Ave., three-st'y
brick stable, flat tin roof, 27' x 90', 40' high; \$10,000;
own., Jno. D. Crimmins, 40 East 68th St.; arch.,
Wm. Schickel, 246 Fifth Ave.

JACKSON ARCHITECTURAL IRON WORKS

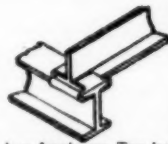
ESTABLISHED 1840.

IRON

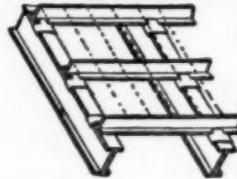
Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams,
Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings
and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze.
Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts.

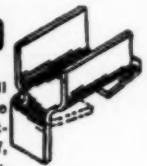
Office, 315 East 28th St., New York.



H. A. Streeter's Patent Clip

ARCHITECTS, OWNERS, CONTRACTORS, and all
others interested in Iron or Steel construction will please
note that I have PATENTED A STEEL CLIP for connect-
ing Angle or Tee bars to I Beams, etc., which reduces the expense one-half,
and does away with the old method of Drilling and Bolting, which is a great sav-
ing of Time, besides allowing an easy method of adjusting Tee bars to any de-
sired width of Tilt. (This method is now adopted by our principal contractors).
Clips furnished ready to apply by sending the Sections and weight of Tee
Bars and I Beams, for which connections are wanted.

FOR PRICES AND FURTHER INFORMATION

APPLY TO STREETER
Globe Iron Works,
35-41 E. INDIANA STREET,
CHICAGO, - - - ILL.ORNAMENTAL
IRON
WORKPRISMATIC
LIGHT
WORK

BUILDING INTELLIGENCE.

(Stables Continued.)

East Forty-first St., No. 116, three-st'y brick stable,
flat tin roof, 25' x 91', 36' high; \$18,000; own., R. G.
Dun, 261 Madison Ave.; arch., Berg & Clark, 10
West 23d St.Philadelphia, Pa. - Mather St., No. 3420, two-st'y
brick and stone stable and shop; bid., F. N. For-
sythe, 2129 Jefferson St.Allegheny Ave., n. e. cor. Trenton Ave., two-st'y
brick stable; bid., John T. Gordon & Bro., 2985
Salmon St.North Broad St., No. 3802, frame stable; own.,
Geo. Blumer, 3802 North Broad St.

STORES.

Chicago, Ill. - M. Almy, three-st'y brick store and
flats, 2449-2455 State St.; \$30,000.Huebsch Bros., three-st'y brick store and flats,
Ashland Ave. and 51st St.; \$16,000.A. Flows, three-st'y brick store and flats, 1959
Harrison St.; \$5,000.Mrs. Martin Fischer, three-st'y brick store and
flats, 60 Woodside Ave.; \$4,500.John M. Collins, four-st'y brick store and flats,
4737 State St.; \$11,000.E. L. Stoneham, 2 three-st'y brick stores and
flats, 6938 Wentworth Ave.; \$8,000.New York, N. Y. - Broadway, Nos. 1356-1358, two-
st'y brick store, flat tin roof, 52' x 141', 38' high;
\$20,000; own., Douglas H. Schneider, 33 Park Pl.;
arch., Schneider & Herter, 9th St. and 3d Ave.St. Louis, Mo. - Four-st'y store and flats, 44' x 60',
s. e. cor. 11th St. and Chouteau Ave.; \$12,000; own.,
R. Greer.

WAREHOUSES.

Chicago, Ill. - Chicago Dock & Canal Co., six-st'y
and basement brick warehouse; 362-372 Illinois St.;
\$45,000.

MISCELLANEOUS.

Philadelphia, Pa. - Academy Road, n. Bristol Pike,
barn, 50' x 42'; wagon house, 30' x 50'; own., Anthony
McGarvey; con., John Samms, Byberry, Pa.Arcadia St., w. s. n. Ontario St., frame wagon-shed;
bid., George E. Cliver, 3417 Frankford Ave.Eric Ave., e. Lawrence St., frame barn will be
erected for the Philadelphia & Reading Railroad
Co.; con., John Schickel, 3700 Lawrence St.

BUILDING INTELLIGENCE.

(Miscellaneous Continued.)

Fairmount Ave., No. 1024, one-st'y brick and frame
wash-house, 20' x 35'; con., Ellsworth Troth, 1016
Franklin St.Franklin St., near Unity St., one-st'y freight-
station; con., F. L. Hoover & Son, 703 Jayne St.North Thirtieth St., No. 236, one-st'y brick and
stone greenhouse; own., William A. Fogg, 114 North
13th St.

COMPETITIONS.

MUSEUM OF ANTIQUITIES.

[At Cairo, Egypt.]
The Egyptian Government have decided to put into
competition the supply of the best project for building
a museum for the Egyptian Antiquities in Cairo.

Architects of all nations are admitted to compete.

The amount allotted for this purpose is £E. 120,000.

Awards will be given to the authors of the best pro-
jects; the first being fixed at £E. 600 and the next four
will have a sum of £E. 400 divided amongst them.The projects should reach Cairo at latest on the 1st
March, 1895, at noon.The programme of this competition will be supplied
by the Public Works Department in Cairo, on appli-
cation.NOTE: - The sterling pound is worth £E. 0.975, and
the French piece of twenty francs £E. 0.770.

PROPOSALS.

Treasury Department, Office Supervising Architect,
Washington, D. C., August 31, 1894. Sealed proposals
will be received at this office until 2 o'clock P. M. on
the 20th day of September, 1894, and opened immedi-
ately thereafter, for the plumbing, gas-piping and
electric-wire conduits for the United States Custom-
house and Post-office building at Newark, N. J., in
accordance with the drawings and specification, copies
of which may be had on application at this office or
the office of the Superintendent at Newark, N. J.Each bid must be accompanied by a certified check
for a sum not less than two per cent of the amount
of the proposal. The right is reserved to reject any
or all bids, and to waive any defect or informality in

THE J. L. MOTT IRON WORKS,

84 to 90 Beekman Street, New York.

311 and 313 Wabash Avenue, Chicago.

322 and 324 Boylston Street, Boston.

Wainwright Building, St. Louis.

Flood Building, San Francisco.



Copyright, 1893, by THE J. L. MOTT IRON WORKS, in their publications. Plate 1087G. (Reduced cut.)

FINE appearance, durability, and perfection from a sanitary standpoint are all combined in these baths. They entail no labor, scouring or burnishing, requiring merely to be wiped out with a sponge to be thoroughly cleaned.

Interested parties are invited to visit our showrooms and examine these and other sanitary appliances.

IMPERIAL PORCELAIN ROLL-RIM BATHS.

ILLUSTRATED PRICE-LIST MAILED ON APPLICATION.

PROPOSALS.

any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Plumbing, Gas-piping and Electric-wire Conduits for the United States Custom-House and Post-office building at Newark, N. J.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 977

MONUMENT.

[At Newton, N. J.] Proposals are wanted until September 25, for a Quincy granite Soldiers and Sailors Monument, to cost about \$5,000. Address SAMUEL JOHNSON, Newton, Sussex Co., N. J. 978

BARRACKS, ETC.

[At Fort Myer, Va.] Proposals are wanted until September 27, for barracks and officers' quarters. Address LIEUT. COL. GEORGE H. WEEKS, Depot Quartermaster, Washington, D. C. 978

BUILDINGS.

[At Plattsburgh, N. Y.] Proposals are wanted until September 27, for storehouse buildings, officers' quarters, etc. Address GEORGE C. POND, A. Q., U. S. A., as above. 978

BUILDINGS.

[At Fort Harrison, near Helena, Mont.] Proposals are wanted until September 19, for several brick and frame buildings and for plumbing, steam-heating and gas-piping. Address GEORGE S. HOYT, Capt. U. S. A., Helena, Mont. 977

COPPER ROOF.

[At Washington, D. C.] Proposals are wanted until September 10, for new copper roof for Pension Office Building, and for corrugated sheet-metal ceilings for great hall of same. Address JOHN M. REYNOLDS, Acting Secretary, as above. 976

HEATING APPARATUS.

[At Boston, Mass.] Proposals are wanted until September 11, for heating apparatus for high school-house in Brighton District. Address E. M. WHEELWRIGHT, City Architect, as above. 976

HEATING AND VENTILATING, ETC.

[At Auburn, Cal.] Proposals are wanted until October 19, for heating and ventilating apparatus, vaults and cells in Placer County Court-house. Address GEORGE B. HEWES, Chairman Board of Supervisors, as above. 981

IRONWORK.

[At Kanawha, W. Va.] Proposals are wanted until September 27, for about 635,000 lbs. wrought-iron and 337,000 lbs. cast-iron for movable dams on the Great Kanawha River. Address ADDISON M. SCOTT, as above. 978

LIGHT STATION.

[At Solomon's Lump, Md.] Proposals are wanted until September 26, for a light station. Address ERIC BERGLAND, Capt. 978



"DUPLEX"

THE BEST WATER CLOSET
IN THE WORLD

Quiet in Operation,
Positive in Action,
Elegant in Appearance
—AND—
Sanitarily Perfect.

FRED. ADEE & CO.,
90 BEEKMAN ST.,
NEW YORK.

PROPOSALS.

U. S. A., Office of Light-house Engineer, Fifth District, Baltimore, Md. 978

OFFICERS' QUARTERS.

[At David's Island, N. Y.] Proposals are wanted until September 25, for officers' quarters. Address J. W. SUMMERHAYES, A. Q. M., U. S. A., as above. 978

PENITENTIARY.

[At Nashville, Tenn.] Proposals are wanted until October 1, for the State Penitentiary Buildings. Address ED. LAURENT, Supervising Architect, as above. 979

REPAIRS.

[At Fort Mifflin, Pa.] Proposals are wanted until September 25, for repairs at Naval Magazine, Fort Mifflin, near Philadelphia. Address W. T. SAMPSON, Bureau of Ordnance, Navy Department, Washington, D. C. 978

SCHOOL.

[At Fort Leavenworth, Kan.] Proposals are wanted until September 25, for addition to school. Address CAPT. F. G. HODGSON, A. Q. M., U. S. A., as above. 978

TELEPHONE SYSTEM.

[At Washington, D. C.] Proposals are wanted until September 24, for telephone exchange system for Department of Interior. Address JOHN M. REYNOLDS, Acting Secretary, Department of the Interior, as above. 978

PROPOSALS.

LIGHT-STATION.

[At Crooked River, Fla.] Proposals are wanted until September 11, for buildings and metal-work for light-station. Address MAJOR JAMES B. QUINN, C. of E., U. S. A., Seventh District, New Orleans, La. 976

HEATING APPARATUS.

[At Hillsboro, O.] Proposals are wanted until September 11, for heating apparatus for jail and court-house. Yost & Packard, architects, Columbus, O. Address JAMES REECE, County Auditor, as above. 976

COUNTY JAIL.

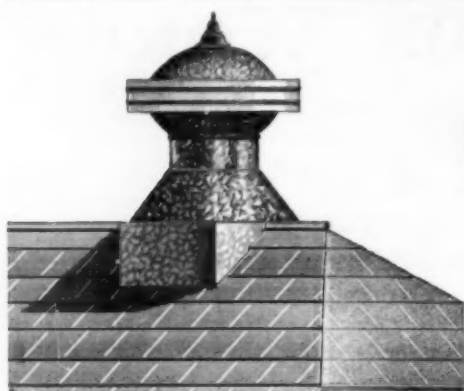
[At Ortonville, Minn.] Proposals are wanted until September 21, for a county jail for the County of Big Stone, Minn. Plans, etc., at office of auditor of county. Address BUILDING COMMITTEE OF COUNTY JAIL, as above. 977

SCHOOL-HOUSE.

[At Riverside, Ill.] Proposals are wanted until September 11, for eight-room school-house. Kuhlmann & DeCamp, architects, Cincinnati, O. Address CLERK OF BOARD OF EDUCATION, as above. 976

WATER-WORKS AND ELECTRIC-LIGHT PLANT.

[At Alexandria, La.] Proposals are wanted until September 10, for combined water-works and electric-light plant. Address A. B. RACHAL, Acting Mayor, as above. 976



The Proverbial Cucumbe

is not cooler than a

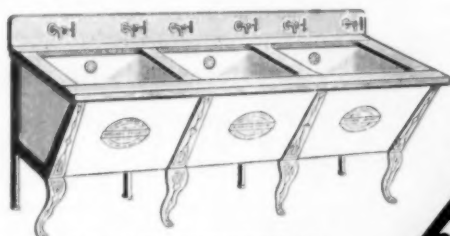
HOUSE, HALL, CHURCH OR FACTORY

that is ventilated by the

GLOBE VENTILATOR.

Send for Circular on the Subject.

GLOBE VENTILATOR COMPANY,
TROY, NEW YORK.



SOLE MANUFACTURERS OF
MORAHAN'S PATENT SOLID WHITE
CROCKERY STATIONARY
WASH TUBS

Perfectly Glazed, Smooth Surfaces.
No labor required to keep clean.
Cannot absorb, leak or decay.
Not affected by heat or cold.
No seams to open. Very strong.
Over fifty years on the market.
Warranted for thirty years against
injury, violence excepted.
Thousands in use.
BEWARE OF IMITATIONS.

The Only PERFECT
SANITARY TUBS
in Existence

SOLID WHITE
CROCKERY

312
PEARL STREET,
COR. PECK SLIP
NEW YORK.

259 WABASH AVENUE,
CHICAGO, ILL.
Three Highest Awards Columbian Exposition.



BUTLER'S
PANTRY, SLOP &
KITCHEN SINKS.

SAME MATERIAL AND STRENGTH AS TUBS.

PROPOSALS.

ELECTRIC-LIGHTING.

[At Hempstead, N. Y.]
Proposals are wanted until September 17, for
electric-lighting. Address VILLAGE CLERK, as
above. 976

ELECTRIC-LIGHTING.

[At Jackson, Tenn.]
Proposals are wanted until October 2, for electric-
lighting. Address SAM C. LANCASTER, City En-
gineer, as above. 979

WATER-WORKS.

[At Greenville, Miss.]
Proposals are wanted until October 2, for water-
works. Address CITY CLERK, as above. 979

WATER-WORKS.

[At Guttenburg, Ia.]
Proposals are wanted until September 18, for
water-works. Address HENRY C. ECKART, Re-
corder, as above. 976

HIGH SCHOOL.

[At Scranton, Pa.]
Proposals are wanted until September 17, for a
high school. Address E. D. FELLOWS, Secretary
Board of Control, as above. 976

SCHOOL-HOUSE.

[At Bryan, O.]
Proposals are wanted until September 14, for a
school-house. Address A. C. MARSHALL, County
Auditor, as above. 976

ELECTRIC-LIGHTING PLANT.

[At Lancaster, O.]
Proposals are wanted until September 14, for an
electric-lighting plant for Boys' Industrial School.
Address C. D. HILLES, Secretary, as above. 976

GARBAGE CREMATORY.

[At Fort Wadsworth, N. Y.]
Proposals are wanted until September 15, for a
garbage crematory. Address POST QUARTER-
MASTER, as above. 976

OFFICERS' QUARTERS, ETC.

[At Burlington, Vt.]
Proposals are wanted until September 13, for
officers' quarters, administration building and maga-

PROPOSALS.

zine. Address CAPT. GUY HOWARD, A. Q. M., U.
S. A., as above. 976

EARTH CLOSETS.

[At Fort Bliss, Tex.]
Proposals are wanted until September 10, for
dry earth closets. Address G. C. SMITH, Q. M., U.
S. A., San Antonio, Tex. 976

CITY-HALL AND MARKET.

[At Jacksonville, Fla.]
Proposals are wanted until September 10, for
proposed city-hall and market-building. Address
JOHN R. SCOTT, architect, Board of Trade Building,
as above. 976

Treasury Department, Office Supervising Architect,
Washington, D. C., August 25, 1894. Sealed proposals
will be received at this office until 2 o'clock P. M. on
the 21st day of September, 1894, and opened immedi-
ately thereafter, for all the labor and materials
required for the excavation, concrete foundations,
cut-stone and brickwork, iron and wood floor, ceiling
and roof construction, roof-covering, drainage, etc.,
for the United States Post-office building at Roanoke,
Va., in accordance with the drawings and specifica-
tion, copies of which may be had at this office or at
the office of the Superintendent at Roanoke, Va.
Each bid must be accompanied by a certified check
for a sum not less than two per cent of the amount
of the proposal. The right is reserved to reject any
or all bids, and to waive any defect or informality in
any bid, should it be deemed in the interest of the
Government to do so. All bids received after the time
stated will be returned to the bidders. Proposals
must be enclosed in envelopes, sealed and marked
"Proposal for Excavation, Concrete Foundations,
Cut-stone and Brickwork, Iron and Wood Floor, Cell-
ing and Roof Construction, Roof-covering, Drainage,
etc., for the United States Post-office building at Roan-
oke, Va.," and addressed to JEREMIAH O'ROURKE,
Supervising Architect. 976

Treasury Department, Office Supervising Architect,
Washington, D. C., August 24, 1894. Sealed proposals
will be received at this office until 2 o'clock P. M. on
the 17th day of September, 1894, and opened immedi-
ately thereafter, for all the labor and materials
required for the brick and terra-cotta floor-arches,
terra-cotta column covering, wall-furring, etc., for
the United States Court-house, Post-office, etc., build-
ing at Detroit, Mich., in accordance with the drawings
and specification, copies of which may be had at this

BROUGHTON SELF-CLOSING COCKS.

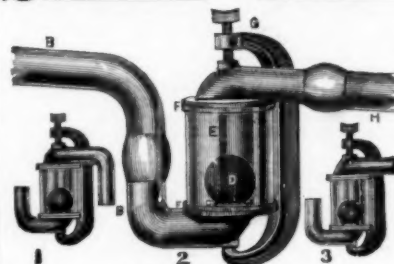
EVERY
ONE
WARRANTED.



Send for Circular.

E. STEBBINS MFG CO. Sole
Manufacturers,
BRIGHTWOOD, MASS.

BENBOR SYPHON TRAP.



Patented Feb. 13, 1883.

WITHOUT EXCEPTION THE
— BEST —
IN THE MARKET.

MANUFACTURED ONLY BY

HAINES, JONES & CADBURY CO.,
1136 Ridge Avenue,
PHILADELPHIA, PA.
Prices reduced. Send for New Circular.

PROPOSALS.

office or the office of the Superintendent at Detroit,
Mich. Each bid must be accompanied by a certified
check for a sum not less than two per cent of the
amount of the proposal. The right is reserved to
reject any or all proposals, and to waive any defect
or informality in any bid, should it be deemed in the
interest of the Government to do so. All proposals
received after the time stated will be returned to the
bidders. Proposals must be enclosed in envelopes
sealed and marked "Proposal for Brick and Terra-
cotta Floor-arches, etc., for the United States Court-
house, Post-office, etc., building at Detroit, Mich.,"
and addressed to JEREMIAH O'ROURKE, Supervis-
ing Architect. 976

THE VAN VRANKEN FLUSH TANK.
For Sewers, Subsoil Disposal, etc.
For catalogues, discounts and other particulars, address
J. LELAND FITZGERALD,
437 STATE STREET, SCHENECTADY, N. Y.

"THE CAST SINK MUST GO"
THE COLUMBUS SINK DISPLACES ALL OTHERS
WROUGHT STEEL
PAINTED, GALVANIZED, ENAMELLED.
Send for descriptive circular and prices, to
The Kilbourne & Jacobs Mfg. Co.
Sole Manufacturers. - COLUMBUS OHIO

BOSTON FIRE-BRICK WORKS.
FRONT BRICK
BUFF, BROWN, MOTTLED YELLOW,
GRAY, OLD GOLD AND
OTHER COLORS.
**ARCHITECTURAL
TERRA-COTTA**
In all its varied colors and forms.
FISKE, HOMES & CO.,
MANAGERS,

Factories on Federal Street and
at South Boston.
Office 164 Devonshire St., Boston.
Times Building, Park Row, New York.
927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.
SOLE OWNERS AND MANUFACTURERS OF
**J. G. MERRILL'S PATENT
SALAMANDER**



Fire-Proof Composition
FOR BUILDINGS.
Used as Lining between
Floors, and upon Walls,
Ceilings, Elevator and
Light Shafts, Boiler Rooms,
Doors, Shutters, etc. It is
Air, Dust, and Vermin
Proof, and a Sound
Deadener.
Office, 166 Devonshire Street, BOSTON.
A. J. HODDER, Pres.
CHAS. T. BAKER, Treas.
W. D. LOMBARDO, Gen. Mgr.



For estimates on
**ASPHALT
WORK**
of every descrip-
tion apply to Man-
ager,
T. Hugh Beerman,
N. Y. Mastic Works, 35 Broadway, N. Y.
Asphalt Mine Owners in France, Sicily, etc.

BROOKS, SHOOBRIDGE & CO.,
PORTLAND CEMENT.
Works: Grays, Essex, England.
New York Office: 7 Bowling Green.

Fire-proof Building.

RARITAN HOLLOW & POROUS BRICK CO.,
—MANUFACTURERS OF—
Hollow Fire-Clay and Porous Terra-Cotta Bricks
of Every Description, for Fireproof Buildings.
BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.
Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.
Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.
HENRY MAURER & SON,
Manufacturers of
FIRE-PROOF BUILDING MATERIAL
Of every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.
Porous Terra-Cotta, Fire-Brick, etc., etc.
Works, MAURER, N. J. Office and Depot, 420 EAST 23d STREET, New York.
Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."

C. PARDEE } Manufacturers All Kinds Fireproof Building Materials, etc.
WORKS, } Perth Amboy, N. J. See ad. on page XVI.

**PIONEER FIREPROOF
CONSTRUCTION CO.**

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile and Porous Terra-Cotta
FOR FIREPROOFING BUILDINGS.

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

TO ARCHITECTS,
BUILDERS
AND OWNERS.

Attention is called to Fireproof and Vermin-Proof
MINERAL WOOL,
As a Lining in Walls and Floors for preventing the
ESCAPE OF WARMTH AND THE DEADENING OF SOUND.
AMERICAN MINERAL WOOL CO.

Sample and Circulars Free.

Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N.Y. City.

Roebling STANDARD Wire Lathing
FIREPROOF—DURABLE—ECONOMICAL

Pays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures
a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three
public tests—detailed accounts of which will be mailed to any address upon request.

THE NEW JERSEY WIRE CLOTH COMPANY,
TRENTON, N. J.

Massachusetts Material-Men and Contractors.

ARTIFICIAL STONE.	FIREPROOFING.	HEATING CONTRACTOR.	MASON CONTRACTORS.
SIMPSON BROS. 166 Devonshire St. Boston, Mass.	BOSTON FIREPROOFING CO. 166 Devonshire St. Boston, Mass.	W. E. FLORENCE, 10 Beacon St. Chelsea, Mass.	THOMAS J. LYONS, 166 Devonshire St. Boston, Mass.
BUILDING CONTRACTORS.	FURNACES.	INTERIOR DECORATOR.	PAPIER MACHÉ.
LITTLEFIELD BUILDING CO. Incorporated. Room 57, 166 Devonshire St. Boston, Mass.	CYRUS CARPENTER & CO. 44 Hanover St. Boston, Mass.	WILLIAM J. DOLAN, 224 Tremont St. Boston, Mass.	CONLAN & MAYBECK, 65 Warcham St. Boston, Mass.
CARVERS, MODELLERS.	GRANITE.	IRON WORK. (Building)	SASH CORD.
JOHN EVANS & CO. 77 Huntington Ave. Boston, Mass.	GRANITE RAILWAY CO. 166 Devonshire St. Boston, Mass.	R. F. HAWKINS' IRON WORKS, Springfield, Mass.	SILVER LAKE CO. 78 Chauncy St. Boston, Mass.
ELECTRI WORK.	HEATING. (Air & Water)	MANTELS. (Wood)	SLATE. (Roofing)
BLODGETT BROS. & CO. 383 Federal St. Boston.	MAGEE FURNACE CO. 30-8 Union St. Boston, Mass.	J. W. BAILEY & SONS CO. 14 Charlestown St. Boston, Mass.	H. H. MATHEWS, 178 Devonshire St. Boston, Mass.

Bricks and Terra-Cotta.

HYDRAULIC BRICK,
PLAIN AND MOULDED
OF ANY COLOR.
RED, BUFF, GRAY, BROWN,
PINK, MOTTLED, GRANITE.

Total Annual Capacity, 100,000,000.

HYDRAULIC-PRESS BRICK CO.,
ODD FELLOWS' BUILDING,
ST. LOUIS, MO.

PERTH AMBOY
TERRA-COTTA COMPANY,

PERTH AMBOY, NEW JERSEY.

Office, 289 Fourth Ave., New York.

PHILADELPHIA
OFFICE,
Drexel Bldg.

BOSTON AGENTS,
WALDO BROS.,
88 Water Street.

TIFFANY PRESSED BRICK CO.,

Manufacturers of

Pressed and Enamelled Brick,
Plain and Ornamental,

403 Chamber of Commerce B'ld'g,
CHICAGO.

BUILDING-BRICK.

YARDS at West Brimfield, Mass., on Boston & Albany R. R., and at Amherst, Mass., on Central Vermont R. R. (New London Northern Div.) and Boston & Maine R. R. (Central Mass. Div.).

CAPACITY, 7,000,000 Annually.

Address, MARCY & GARDNER,
PALMER, MASS.

"Architects"
SPECIFY

**LAFARGE'S
CEMENT**

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,

Importer and Sole Agent,

81 and 83 Fulton St., N. Y.

The Temporary Binder

Provided by us will keep your copies of the *American Architect* in PERFECTLY uninjured condition.

Price \$1.35 postpaid.

**NEW YORK
ARCHITECTURAL TERRA COTTA
COMPANY.**

OFFICE,
38 PARK ROW,
New York City.

WORKS,
LONG ISLAND CITY,
New York.

GENERAL AGENTS FOR NEW ENGLAND:
BOSTON FIRE BRICK COMPANY,
Fiske, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.

STEPHENS, ARMSTRONG & CONKLING,
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, Philadelphia, Pa.

—INDIANAPOLIS—
TERRA-COTTA CO.

Works: Brightwood, Ind.

ESTIMATES ON SPECIAL DESIGNS PROMPTLY
FURNISHED. WRITE FOR CATALOGUE
AND DISCOUNTS.

SEMI-GLAZE OR DEAD-FINISH.
ALL COLORS.

**POMPEIIAN,
BUFF AND RED PRESSED,
ALSO ORNAMENTAL**

FACE BRICK MARTELS.

CAPACITY, 100,000,000 PER ANNUM.

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

**FRONT BRICKS
AND
TERRA-COTTA**

—IN OVER TWENTY COLORS.—

Chimney Flue Linings, Chimney Tops, Drain
Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,
88 WATER STREET. - - BOSTON.

**THE
Northwestern Terra-Cotta Co.**
Manufacturers of

Architectural Terra-Cotta.

WORKS & MAIN OFFICE:

Cor. Clybourn & Wright-
wood Avenues.

CITY OFFICES:

Room 1118 Bookery Bldg.
cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for
Catalogue and Samples.

BRICK

OF ANY COLOR

AND

OF ALL SHAPES.

BRICK FIREPLACES



NO. 3 SPANISH.

BALTIMORE ROOFING TILE CO.

BURNS, RUSSELL & CO., Proprietors,

535 Columbia Avenue, Baltimore, Md.,

MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other
styles of Clay Roofing Tiles in all colors,
glazed or unglazed.

CATALOGUE ON APPLICATION.



ROMAN

C. PARDEE WORKS, Perth Amboy, N. J.
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIREPROOF BUILDING MATERIALS, ETC.

THE GENUINE

Taylor **"OLD STYLE"** brand
OF ROOFING TIN.

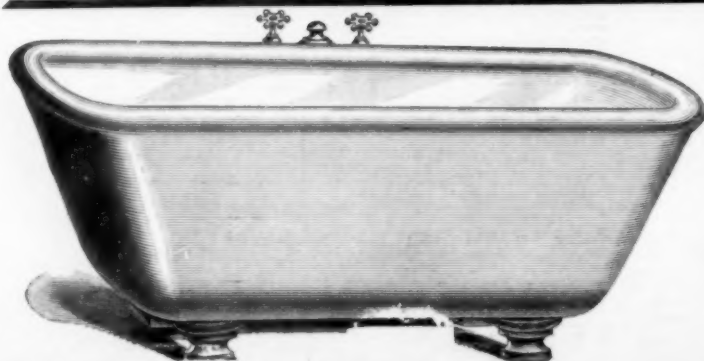
The EFFORTS made to IMITATE the Genuine Taylor "Old Style" Brand of
Roofing Tin is the best proof of the high esteem in which it is held. See that
you get the Genuine. Remember that every sheet has our name and registered
Trade Mark of Target and Arrow stamped upon it.

N. & C. TAYLOR CO., Manufacturers,
PHILADELPHIA.

Porcelain Bath Tubs

"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.

"SLUICE" Syphon Water Closet.



MINTON'S TILES

For Bathrooms, Halls and Vestibules; Glazed,
Unglazed and Enamelled.

**MILLER & COATES, 279 PEARL STREET
NEW YORK.**

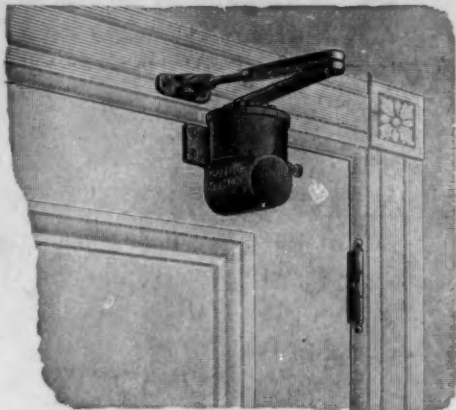
260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.

THE ONLY MEDAL AND AWARD FOR SHINGLE STAINS

At the World's Columbian Exposition

HAS BEEN AWARDED TO

DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.



BARDSLEY'S DOOR SPRING AND CHECK.

Embodies all the latest improvements, and is the neatest, most perfect in action, and most durable of any in the market. Prices low.

BARDSLEY'S CHECKING SPRING HINGES.

For single or double acting doors. Operate without noise or violence.

BARDSLEY'S WOOD DOOR KNOBS.

The most pleasing and satisfactory in the market. Cannot come loose from the shank. Every Knob warranted. New styles and reduced prices.

SEND FOR NEW PRICE LIST.

J. BARDSLEY,

149 and 151 Baxter Street, - - - NEW YORK.

PEERLESS COLORS FOR MORTAR.

BLACK, RED, BROWN, BUFF. NEW COLORS, MOSS GREEN, ROYAL PURPLE, FRENCH GREY, POMPEIAN BUFF, COLONIAL DRAB.

THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.

ALSO

PLASTER ARCHITECTURAL ORNAMENTS FROM ORIGINAL AND SPECIAL DESIGNS.

SAMUEL H. FRENCH & CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.

**Draughting
Instruments.**

And Supplies for Architects,
Engineers, and
Draughtsmen.

FROST & ADAMS,

37 Cornhill,
Boston, Mass.

Send for Our New Catalogue.

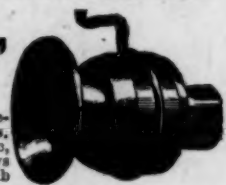


W. R. OSTRANDER & CO.,

204 Fulton Street, New York.

Manufacturers of

Speaking-Tubes, Whistles, Oral, Electric, Me-
chanical and Pneumatic Announcers & Bells,
Complete outfits of Speaking-Tubes, Whistles, Electric,
Mechanical, and Pneumatic Bells. A full line always
in stock. Send for New Catalogue. Factory, De Kalb
Ave. near Knickerbocker, Brooklyn, N. Y.



PASSENGER
AND
FREIGHT
ELEVATORS

Morse, Williams & Co.,
Electric and Hydraulic High Speed
Passenger Elevators.

Steam, Belt and Hand Power Freight Elevators.

1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.

19 Pearl St., Boston. 82 Church St., New Haven.

714 Omaha Building, Chicago. Builders' Exchange, Baltimore, Md.

Decorative
Glass and
Sand Blast
Work.

THE MATTHEWS DECORATIVE GLASS CO.
MANUFACTURERS OF
ORNAMENTAL GLASS in Sheets or from Special Design
By the SAND-BLAST and other Patented processes.
CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,
Gold and Silver Embossed, and Transparent Glass Signs. Marbled Glass
for Ceilings. Estimates promptly furnished on application.
328-330 E. 26th Street, New York City.

ALPHABETICAL LIST OF ADVERTISERS.

The (E) indicates that the advertisement may be found in the last or the following issue: the (M) that it may be found in the first issue for each month.

A.	E.	K.	P.
Abel, C. C. & Co.	Elektron Mfg. Co.	Karr, C. P.	Paradigm Construction Company (Cov.) 3
Ades & Co., Fred.		Kearney, R. A.	Pardee, C.
Aschmann & Fellman.	F.	Kearney & Mattison Co.	Passaic Rolling Mill Co.
Allen's Cement Works.	Falt & Co., J. F.	Kearney, Perry N.	Penn. Elevator Engineering Co.
American Boiler Co.	Farguhar's Sons, John.	Kilbourne & Jacobs Mfg. Co.	Perth Amboy Terra-Cotta Co.
American Fireproofing Co. (Salamander).	Farrand & Votey Organ Co.		Phoenix Iron Co.
American Mineral Wool Co.	Fisher & Co., Robert C.	L.	Pioneer Fireproof Construction Co.
Apollo Iron & Steel Co.	Fiske, Homes & Co.	Lane Bros.	Pitt, W. R.
Armstrong & Co., Mattland.	Fitzgerald, J. Leland.	Lawrence Cement Co. (Cov.) 4	Power, M. J.
	Fleming Cement & Brick Co.	Lord & Burnham Co.	Pray, Sons & Co., John H.
	Flynt Building & Construction Co.	Lewis Saylor Wire Co.	Prescott, J. B. & Son.
	Holotype Printing Co.	M.	
	French & Co., Samuel H.	Mary & Gardner.	R.
	Prink, I. P.	Marks, A. A.	Raritan Hollow & Potomac Brick Co.
	Frost & Adams.	Macquerey, E. L.	
B.		Mathews Decorative Glass Co. (Cov.) 3	S.
Babcock & Wilcox.	G.	Maurer & Son, Henry.	Sarnon Cordage Works.
Bally & Truett.	Globe Ventilator Co.	McCray Refrigerator and Cold-Storage Co.	Smith & Anthony Stove Co. (Cov.) 3
Baltimore Roofing Tile Co.	Gorton & Lidgerwood Co.	McCully Glass Company.	Smith & Egge Mfg. Co.
Bardley, J.	Goulds Mfg. Co.	Merchandise Co.	Smith Co., H. B.
Batterson, Ros. & Kneels.	Graves Elevator Co.	Metallizing Co.	Spaulding & Moss.
Ball, George H. & Co.	Gurney Heater Mfg. Co.	Miller, J. & Bro.	Standard Elevator Co.
Baltimore Iron Works.		Moore & Cramer.	Stebbins Mfg. Co.
Berger Bros.	H.	Moore & Wyman.	Stewart Ceramic Co.
Bickel & Co.	Haberstroh & Son, L.	Morse, Williams & Co. (Cov.) 3	
Bickelbush, G.	Harian & Hollingsworth Co.	Mott Iron Works, J. L.	T.
Bike Bell Co.	Hayes, Geo.	Murphy Varnish Co.	Taylor Co., N. & G.
Brand, James.	Hill, George.	Mutual Savings & Loan Co.	Taylor, J. W.
Bridgeport Wood Finishing Co. (Cov.) 4	Hind, Thomas J.		Thiele, E.
Brizley, W. H.	Hitchings & Co.	N.	Thorn, J. S. Co.
Brooks, Shobridge & Co.	Holmes, F. S.	National Lead Co.	Thorn Shingle & Ornament Co. (Cov.) 4
Brooks, T. H. & Co.	Howson & Howson.	National Wood Mfg. Co.	Tiffany Glass & Decorating Co.
Brownville Maine Slate Co.	Huyett & Smith Mfg. Co.	Neuchatel Asphalts Co.	Tiffany Pressed Brick Co.
Buckeye Portland Cement Co.	Hydraulic-Press Brick Co.	New England Felt Roofing Works.	Ticknor & Co.
Burritt & Williams.		New England Water Pipe Co.	Trey Laundry Machinery Co. (Cov.) 4
	I.	N. J. Steel & Iron Co. (Cov.) 4	
C.	Indianapolis Terra-Cotta Co.	New Jersey Wire Cloth Co.	U.
Cabot, Paul E.		N. Y. Architectural Terra-Cotta Co.	U. S. Tubular Bell Co.
Central Expanded Metal Co.	J.	New York Marble Works.	
Charles, H. C. & Co.	Jackson Architectural Iron Works.	New York Metal Ceiling Co.	V.
Chicago Interior Decorating Co.	Jackson, E. A. & Bro.	Northrop, H. S.	Valle & Young.
Chrome Steel Works.	Jackson & Co., Wm. H. (Cov.) 4	Northern Terra-Cotta Co.	
Cincinnati Corrugating Co.	Jardien Brick Co.	Norton Cement Co., F. O.	W.
Clark, Burnett & Co.	Jenkins Bros.		Waldo Bros.
Clark, O. S.	Johns Mfg. Co., H. W.	O.	Warren Chemical & Mfg. Co.
Clinton Wire Cloth Co.	Johnson & Wilson.	Okonite Co. (Lid.).	Whitfield, Thomas.
Comstock, Wm. T.		Oleander & Co., W. H.	Whittier Machine Co.
Continental Insurance Co.		Otis Bros. & Co.	Wicks Refrigerator Co.
Correspondence School of Industrial Sciences.			Wilks Mfg. Co., S.
Cudell, F. E.			Williams, John.
Cutter Mfg. Co.			Wilson, Jas. G.
			Worthington, Henry H.
D.			Y.
Dashy Iron Works.			Yale & Towne Mfg. Co.
Deane, E. Eldon.			
Dexter & Co., F. W.			
Dexter Bros.			
Dixon Crucible Co., Jos.			
Duggan, T. H.			

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th St.
NEW YORK CITY.

Designers and Manufacturers of....

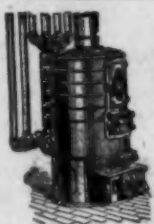
MANTELS
OPEN FIREPLACES ..
GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 65 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.

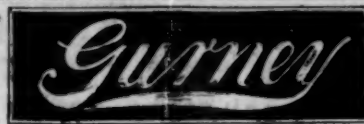


**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

We invite Correspondence.
Send for Catalogues.

HEAD OFFICE: **Gurney Heater Mfg. Co.** 163 Franklin St., Cor.
Congress, Boston, Mass.

SELLING AGENCIES: JOHNSON & Co., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHSEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

Endorsed by the leading
Architects and Engineers.



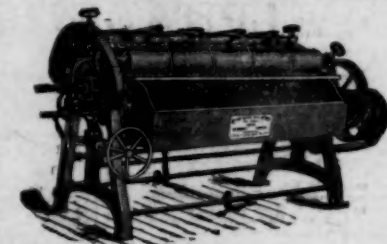
JAS. G. WILSON, Patentee and
74 West 23d St., New York. Manufacturer,



NJ. STEEL & IRON CO.,
TRENTON, N.J.
IRON AND STEEL BEAMS
CHANNELS, ANGLES & TEES
COOPER, HEWITT & CO.
NEW YORK

TROY LAUNDRY MACHINERY CO.
[LIMITED.]

FACTORIES: 648-650 Fulton St., Troy, N. Y.
305-405 Fifth Ave., Chicago, Ill.
SALESROOMS: 15 Warren St., New York.
281-283 Mission St., San Francisco, Cal.



Our line the largest and most complete in the world.

Send for Illustrated Catalogue Z.



50-Page Illustrated Catalogue
of over 350 Designs of
Superior
**WEATHER VANES,
TOWER ORNAMENTS,
CHURCH CROSSES,
FINIALS, Etc., Etc.**
Mailed to any address for 2-cent
stamp—half the postage.
T. W. JONES, Manufacturer,
170-172 FRONT ST., New York.



WHEELER'S PATENT WOOD FILLER.

The only Article to give a
DURABLE, ECONOMICAL, NATURAL and PERFECT FINISH to HARD WOOD
Send for Pamphlet Giving Information on Finishing Hard Wood.
THE BRIDGEPORT WOOD-FINISHING CO., NEW MILFORD, CONN.
GRANVILLE M. BREINIG, General Agent and Superintendent. New York Office, 240 Pearl St. Chicago, 206 East Lake St.
New England Agents: Charles Richardson & Co., 85 & 89 Oliver St., Boston, Mass.
At the World's Fair, Chicago, 1893, as at every place over exhibited, our WHEELER'S PATENT WOOD FILLER and BREINIG'S
LITHOGEN SILICATE PAINT received medal and highest awards.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen. Agts.,
Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Masons' Materials. Send for Pamphlet.

PRIZE MEDALLISTS.

EXHIBITION OF 1862, 1865, 1867, 1873, 1876, AND ONLY AWARD AND MEDAL
NONELESS, SELF-COLLING STEEL SHUTTERS AT PHILADELPHIA,
1876; PARIS, 1878; AND MELBOURNE, 1881.

CLARK, BUNNETT & CO. (Limited)

Late CLARK & COMPANY,

ORIGINAL INVENTORS AND SOLE PATENTEES OF NOISELESS

Self-Colling, Revolving **STEEL SHUTTERS** Fire & Burglar Proof.
Also Improved Rolling Wood Shutters, and Clark's Patent
Metallic Venetian Blinds.

The BEST in the Market. Send for Catalogues, etc., to
162 and 164 West 27th St. - New York.

ALSEN'S
PORTLAND CEMENT
(GERMAN.)

The Strongest, Finest Ground and Most Uniform
Cement Made in the World.

The Largest Works and Greatest Production.

U. S. OFFICE, 143 Liberty Street, NEW YORK.

THORN'S
PATENT
METALLIC ROOFING,
Tiles and Spring-lock Shingles.
8 DESIGNS
The best, most handsome,
durable and secure roofing
plates yet offered to the
building trade. Indorsed
by all the leading archi-
tects. Send for catalogue.
**Thorn Shingle and
Ornament Co.,**
1227 Callowhill St., Philadelphia.

THE AMERICAN ARCHITECT AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. XLV.—No. 977.]

SATURDAY, SEPTEMBER 15, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS.
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Ricker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE.
Louis De Coppel Berg.

PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

ARCHITECTURAL ATELIER.
MASQUERAY-CHAMBERS.
123 East 23d Street, New York.
E. L. Masqueray. W. B. Chambers.
(Ecole des Beaux-Arts, Paris.) See page x.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.

COOPER INSTITUTE.
E. A. Miller.
E. F. Maurer.

INSTITUTE OF ARTIST-ARTISANS.
140 West 23d Street.
John Ward Stimson.

METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.
S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Truscott.

UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

(Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.)

CONSTRUCTION.

BERG, LOUIS D'G. Two Vols., each \$5.00
"Safe Building."
New York (66 Fifth Ave.): Macmillan & Co.

CHANDLER, F. W. \$10.00
"Construction Details."
Boston (211 Tremont St.): Heliotype Printing Co.

CLARK, T. M. \$3.00
"Building Superintendence." Out.
New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts. \$2.00 each.
"Architectural Rendering in Pen and Ink."
Boston (211 Tremont St.).

WARE, WILLIAM E. PROFESSOR. \$5.00
"Modern Perspective."
New York (66 Fifth Ave.): Macmillan & Co.

WHITTIER MACHINE CO., ELEVATORS,

53 STATE STREET - - BOSTON.
93 LIBERTY STREET, NEW YORK.
526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD
For all kinds of
PASSENGER AND FREIGHT ELEVATOR SERVICE.

OTIS BROTHERS & CO.,
NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,
ELEVATOR AND MACHINE WORKS,
COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.

STEAM AND HYDRAULIC,
For Freight and Passenger use.

ELECTRIC ELEVATORS. THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,
For passenger and freight service.
Large experience. Many in use.
First cost moderate.
Running Expense much less than Hydraulic.
Also makers of low-speed Perret Electric Motors and Dynamos.

General office and factory, Springfield, Mass.
NEW YORK OFFICE, 126 Liberty Street.
BOSTON OFFICE, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES,
For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate. References,
Principal Architects and Decorators of New York.
AESCHLIMANN & PELLARIN,
37 CLINTON PLACE,
Between Broadway and University Place, New York.

SANITARY CONDITION OF

DWELLINGS examined by T. H. DUGGAN,
Plumber, 141 DARTMOUTH STREET, BOSTON.
Fine Plumbing Materials, First-class Workmanship.
Telephone call, Tremont No. 165.

THE F. O. NORTON CEMENT,

Specified by all leading Architects.

OFFICE, 92 BROADWAY, NEW YORK.

STANDARD ELEVATOR CO.,

HIGHEST GRADE

PASSENGER }
AND } ELEVATORS.
FREIGHT }

OFFICE AND WORKS,

15th Street and Ashland Ave.,

Chicago, Ill.

PENN ELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.
PASSENGER AND FREIGHT ELEVATORS,
every description.
See our new Electric and Hydraulic before purchasing.
Works, Bloomsburgh, Pa.
Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.
GENERAL OFFICE, PALMER, MASS.
We contract to perform all labor and furnish all material of the different classes required to build complete
CHURCHES, HOTELS, MILLS, PUBLIC
BUILDINGS AND RESIDENCES.
Also for the construction of
RAILROADS, DAMS AND BRIDGES.

We solicit correspondence with those wishing to place the construction of any proposed new work under ONE CONTRACT, which shall include all branches connected with the work. To such parties we will furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO.,

STAINED GLASS & DECORATIVE WORK.
Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.
Sole Agents for
CLAYTON & BELL, GLASS STAINERS, LONDON.
61 Washington Square, South, New York, N. Y.

TIFFANY GLASS & DECORATING COMPANY.

FURNISHERS OF GLASS WORKERS DOMESTIC & ECCLESIASTICAL.

DECORATIONS.  MEMORIALS.

333 TO 341 FORTH AVENUE NEW YORK

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHERE & Co.),

Importers and Workers of

MARBLE, ONYX AND GRANITE,

425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

ROBERT C. FISHER & CO.,

Successors to FISHER & BIRD,

MARBLE AND GRANITE WORKS,

97, 99, 101 and 103 EAST HOUSTON STREET,

Established 1830.

NEW YORK

THERE is but one way in the world to be sure of having the best paint, and that is to use only a well-established brand of strictly pure white lead, pure linseed oil, and pure colors.*

The following brands are standard "Old Dutch" process, and are always absolutely

Strictly Pure White Lead

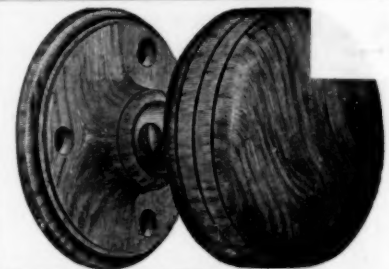
"ANCHOR" (Cincinnati). "JEWETT" (New York).
 "ARMSTRONG & McKELVY" (Pittsburgh). "KENTUCKY" (Louisville).
 "ATLANTIC" (New York). "JOHN T. LEWIS & BROS. CO." (Phila.)
 "BEYMER-BAUMAN" (Pittsburgh). "MORLEY" (Cleveland).
 "BRADLEY" (New York). "MISSOURI" (St. Louis).
 "BROOKLYN" (New York). "RED SEAL" (St. Louis).
 "COLLIER" (St. Louis). "SALEM" (Salem, Mass.)
 "CORNELL" (Buffalo). "SHIPMAN" (Chicago).
 "DAVIS-CHAMBERS" (Pittsburgh). "SOUTHERN" (St. Louis and Chicago).
 "ECKSTEIN" (Cincinnati). "ULSTER" (New York).
 "FAHNESTOCK" (Pittsburgh). "UNION" (New York).

*If you want colored paint, tint any of the above strictly pure leads with National Lead Co.'s Pure White Lead Tinting Colors.

These colors are sold in one-pound cans, each can being sufficient to tint 25 pounds of Strictly Pure White Lead the desired shade; they are in no sense ready-mixed paints, but a combination of perfectly pure colors in the handiest form to tint Strictly Pure White Lead.

Send us a postal card and get our book on paints and color-card, free.

NATIONAL LEAD CO., New York.



WOOD DOOR KNOBS,

DOOR SPRINGS AND CHECKS,
and CHECKING SPRING HINGES.

NEW GOODS. — NEW PRICES.
Send for new Price List.

J. BARDSLEY,

149 and 151 Baxter Street, NEW YORK



Unequaled for all purposes for which Portland Cement is used. Tests and Testimonials of Engineers, and "How to Use Portland Cement," sent free on application.

BUCKEYE PORTLAND CEMENT CO.,
BELLEFONTAINE, OHIO.

RITCHIE'S PATENT
CORRUGATED EXPANDING CONDUCTOR.
(See our advertisement last week.)
LAMB & RITCHIE, Cambridgeport, Mass.

GRAVES ELEVATORS
SAFETY, SPEED AND ECONOMY COMBINED
NEW YORK 92 & 94 LIBERTY ST.
BOSTON 51 STATE ST.
DETROIT HODGES BUILDING.
ATLANTA, GA. INMAN BUILDING.
GRAVES ELEVATOR CO.
ROCHESTER, N.Y.
SEND FOR CATALOGUE.

PORCELAIN LINED REFRIGERATORS
and Cooling Rooms under the Wickes System.
Mechanical Refrigeration under the Westinghouse System.
WICKES REFRIGERATOR COMPANY,
860 Broadway, N. Y.

CAS LIGHT
FOR Churches, Theatres, &c.
Send for cuts and prices. Fair discount to churches and the trade.
New Sun Burner.
H. C. CHARLES & CO., 53 Dearborn St., CHICAGO.

WOOD-CARPET BORDERS FOR RUGS
Also for Covering Parlors, Dining, Sitting and Bath Rooms, Libraries, Offices, Stairs, Stoves, etc. Send stamp for Book of Designs.
F. R. MOORE & CO., 48 Randolph Street, Chicago, Ill.

ESTABLISHED 1853.

HOWSON & HOWSON,
COUNSELLORS AT LAW,
SOLICITORS OF PATENTS.

Philadelphia Offices: 119 South Fourth Street.
New York: Potter Building, 38 Park Row.
Washington, D. C.: 915 F. Street.

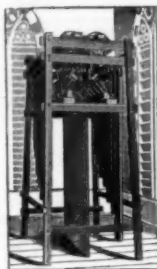
BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
Foundation:				
Dimension.....	5 00	5 00	20	5 00
Block.....	4 60	4 60	18	4 60
Rubble.....	1 25	1 50	8 50	1 45
Blue stone: (P sq. ft.)				
Sidewalk.....	30 @ 5 00	40 @ 1 75		1 in. th. 10 @ 25
Flamed.....	50 @ 6 00	75 @ 75		37 @ 50
Sandstone:				
Longmeadow.....	80 @ 80	80 @ 90	1 50	95 @ 1 05
Kibbe.....	90 @ 90	90 @ 1 10	45 @ 50	1 05 @ 1 25
Brown (Connecticut).....	1 00 @ 95	1 25 @ 1 45	45 @ 55	85 @ 95
Amherst Ohio.....	90 @ 95	90 @ 1 00	55 @ 65	55 @ 75
Berea.....	75 @ 1 00	85 @ 90	1 25	85 @ 95
Berlin.....	75 @ 1 00	80 @ 90		1 00 @ 1 10
Belleville.....	80 @ 1 25	25 @ 1 35		1 05 @ 1 15
New Brunswick (Dorchester).....	1 00 @ 1 00	75 @ 90		1 25 @ 1 35
Caen.....		2 00		95 @ 1 05
Carlisle, English.....	1 05	1 05	75 @ 1 00	35 @ 1 05
Corse Hill (Scotch).....	1 05	1 05	50 @ 1 00	35 @ 1 05
Marble: (P cu. ft.)				
Lee, Mass.....		1 75 @ 2 50	Not Sold.	2 00 @ 2 50
Rutland, white and blue.....		3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls.....	1 25 @ 1 75	2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black.....			Not Sold.	4 00 @ 4 50
Italian, blue-veined.....			4 40	2 50 @ 2 75
Sienna.....			Not Sold.	5 00
Tennessee, red.....			4 40	4 00 @ 6 00
Knoxville.....			4 40	3 00 @ 4 00
Pennsylvania, blue.....			Not Sold.	2 00 @ 3 00
Vermont, white.....			3 50 @ 6 00	2 25 @ 3 00
Slate: Roofing (P square)				
green.....	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	2 30 @ 3 10
unfading.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 25 @ 3 75
purple.....	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
red.....	10 00 @ 10 00	10 00 @ 11 00	12 00 @ 14 00	50 @ 10 25
black, Lehigh.....	4 25 @ 4 75		6 25 @ 6 85	25 @ 4 00
Chapman.....			7 30 @ 8 00	00 @ 4 50
Unfading black, Brownville, Me.....	6 00 @ 8 50	6 00 @ 8 50	6 50 @ 9 50	6 60 @ 8 60
Monson, Me.....	5 50 @ 8 00	5 50 @ 8 00	6 00 @ 9 00	5 50 @ 8 00
Tiles, Am.....			Not Sold.	6 00 @ 6 75
N. Peach Bottom, warranted unfading.....			8 00 @	8 00 @
Fire Clay Roofing Tile on cars at factory				
PAINTS. (In Oil P lb.)				
White lead, Am.....	7 @ 74	6 @ 64	7 @ 74	@ 74
zinc.....	5 @ 54	4 @ 44	5 @ 54	@ 54
Red lead, Am.....	64 @ 7	6 @ 64	64 @ 7	@ 64
Venetian.....	6 @ 104	7 @ 12	6 @ 104	@ 104
Vermillion.....	65 @ 70	60 @ 65 dry	65 @ 68	dry Eng. @ 76
Indian, Eng.....	12 @ 20	12 @ 20	12 @ 20	Eng. @ 76
Yellow Ochre.....	6 @ 15	7 @ 12	3 @ 15	dry Am. @ 18
Chrome.....	12 @ 20	18 @ 25	15 @ 25	@ 21
Green (chrome).....	8 @ 13	8 @ 20	8 @ 20	@ 21
Green, Paris.....	25 @ 40	25 @ 30	18 @ 35	@ 20
Black, lamp.....	15 @ 25	15 @ 25	8 @ 30	@ 12
Blue, ultramarine.....	12 @ 18	18 @ 30	12 @ 35	@ 24
Oil, linseed, (raw).....	55 @ 62	53 @ 55	57 @ 60	@ 60
"boiled.....	58 @ 65	56 @ 58	60 @ 63	@ 63
Turpentine.....	36 @ 37	36	40 @ 42	@ 44
Varnish, coach.....		1 50 @ 6 00	1 25 @ 2 00	125 @ 3 00
Shellac.....		2 50 @ 3 00	2 25 @ 4 00	150 @ 3 00
Putty.....	2 @	2 @ 4	2 @ 24	2 @ 24
Whiting.....	75 @ 1 00	1 @ 14	1 @ 14	@ 1
Paris white, (Eng.).....	1 30 @ 2 00	14 @ 2	14 @ 2	@ 1
Litharge, Am.....	54 @ 6	6 @ 64	64 @ 7	@ 71
Sienna (burnt).....	14 @ 20	14 @ 20	4 @ 16	@ 14
Umber.....	14 @ 20	14 @ 20	2 @ 10	@ 13
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought.)	@ 2 55	@	2 35 @ 3 50	per keg @ 2 25
10d. common.....	@ 2 60	@ 2 00	@ 1 70	@ 2 30
Shingle.....	@ 3 35	@ 2 40	@ 2 10	@ 2 60
Lath.....	@ 4 85	@ 3 10	@ 2 80	3 60 @ 4 75
(Finishing nails according to size.)..	@	@	Add .50 to \$1.90	per lb. 4 @ 6
(For casing nails add 75 c. per keg.)..	@	@	40 to .90	Add per cask
Butts: 4" x 4"..... (P doz. pairs.)..				2 90 (all kinds.)
Plain.....	@ 1 00	@ 85	@ 90	@ 90
Japanned.....	@ 1 50	@ 1 25	Not Sold.	1 35 @ 2 00
Acorn, Japanned.....	@ 1 50	@ 1 60	2 00 @ 3 75	1 35 @ 2 75
Ball Tip, Boston Finish..... (P pair.)..	@ 65	@ 40	Not Sold.	48 @ 50
Bronze metal.....	@ 1 90	plain 1 25	2 00 @ 3 25	@ 1 25
Brass (for cupboards).....	@ 10	@ 10	@ 12	@ 1 00
Ebony.....	@	@	@	@ 35
Apple wood.....	@	@	@	37 @ 1 00
Knobs: (P set.)				
Mineral, best.....	@ 8	@ 8	8 @ 10	@ 06
Lava.....	@ 50	@ 75	65 @ 80	Not Sold.
Hemacite.....	Not Sold.	17 @ 33	31 @ 40	25 @ 50
Porcelain.....	@ 30	@ 10	75 @ 30	@ 25
Glass, solid.....	Not Sold.	@ 50	Not Sold.	1 00 @ 2 50
Glass, silvered.....	Not Sold.	88 @ 1 00	@ 1 50	1 75 @ 2 00
Bronze metal.....	75 @ 2 00	50 @ 3 00	50 @ 3 00	50 @ 3 50
Brass.....	1 00 @ 2 50	50 @ 3 00	1 00 @ 3 00	75 @ 1 25
Solder:				
Sheet Lead.....	@	@ 64	54 @ 7	134 @ 16
Lead Pipe.....	@	@ 64	54 @ 6	@ 6
Iron:				
I-Beams, up to and including 30 ft.....	3 3-10 @ 34	@ 2 50	@	@ 2 8-10
do. over 30 ft., 1 c. adv. for every 5 ft.	3 3-10 @ 34	@ 2 50	2 50 @ 2 75	@ 2 8-10
Channel Beams.....			50 @ 2 75	@ 2 8-10

FOR INFORMATION ABOUT
U. S. MAIL CHUTES
WHICH ARE
A necessity in Office Buildings and Hotels,
write to the sole makers,
THE CUTLER MFG. CO., ROCHESTER, N. Y.
PATENTED. AUTHORIZED.



**NATIONAL
Fine Art Foundry,**
218 East 25th Street, New York.
Artists' Models cast in Standard Bronze.
Architects' Designs Executed.
Artistic and Enduring Monuments
in Granite and Bronze.
No Catalogues.

MAURICE J. POWER.



**TUBULAR
CHIME BELLS**
Harrington Patents.
Established in England.
Introduced here.
Lighter in Weight
Sweeter in Tone
Cheaper in Price
Than the ordinary bell
Catalogue with full descrip-
tion.
**U. S. Tubular Bell Co.,
Methuen, Mass.**

MARKS' ARTIFICIAL LIMBS.
WITH RUBBER HANDS AND FEET,
The most comfortable, durable and natural.



Although a man may lose both of his legs he is not necessarily helpless. By having artificial legs applied, with rubber feet attached, he can be restored to his usefulness.
The engraving is from an instantaneous photograph of a man ascending a ladder; he has two artificial legs substituting his natural ones, which were crushed by a railroad accident and amputated. With his rubber feet he can ascend or descend a ladder, balance himself on the rungs, and have his hands at liberty. He can work at a bench and earn a good day's wages. He can walk and mingle with persons without betraying his loss; in fact, he is restored to his former self for all practical purposes.
With the old method of complicated ankle-joints these results could not be so thoroughly attained.
Fifteen thousand in use, scattered in all parts of the world. Many of these have been supplied without payment themselves to the maker, simply by sending measurements on a formula which any one can easily fill out.

RECEIVED THE HIGHEST AWARD AT
WORLD'S COLUMBIAN EXPOSITION.
Indorsed and purchased by the U. S. Government.
A treatise of 430 pages and formula for measure-
ing SENT FREE.

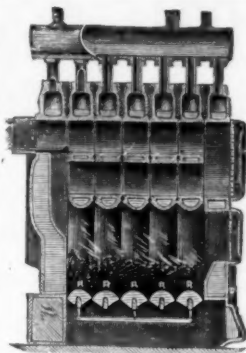
A. A. MARKS,
701 Broadway, NEW YORK CITY.
(Established 41 Years.)

**THE GREAT
CHURCH
LIGHT
REFLECTORS** FOR
OIL, GAS
ELECTRIC LIGHT
I. P. FRANK.
351 PEARL ST. N. Y.

**Conservatories,
GREENHOUSES,
VINERIES,**

Shipped to any part of the country, and erected
complete, ready for use.
Plans embrace the latest improvements.
Unequalled facilities for manufacturing. Thirty-five
years' experience. Catalogue sent on application.
Address, stating requirements,

LORD & BURNHAM COMPANY,
IRVINGTON-ON-HUDSON, N. Y.



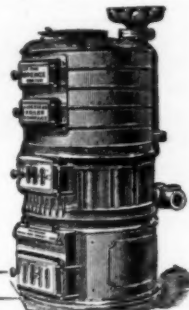
Mercer Boiler.

The H. B. SMITH CO.,
MANUFACTURERS OF
HEATING APPARATUS
Steam and Water

For Public Buildings and Private Residences.

SPECIALTIES:
MERCER'S Patent Improved Sectional Boilers.
MILLS'S Safety Sectional Boilers.
GOLD'S Improved Sectional Boilers.
RED'S Improved Cast-Iron Radiators.
"THE UNION" Hot-Water Radiators.
BRECKENRIDGE'S Patent Automatic Air Valves.
GOLD'S Indirect Pin Radiators.

Office & Warerooms, 137 Center Street, New York.
Foundry, Westfield, Mass. Catalogues sent on application.



SPENCE
(TRADE MARK)

**HOUSE
HEATING**
BY
Steam and Hot Water.

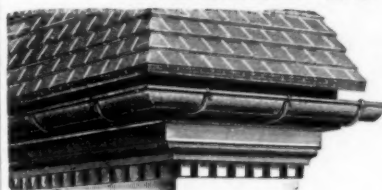
The ARCHITECT, STEAMFITTER and PLUMBER,
All seem to be of one accord, and give our line of Heaters their approval, because they are
SIMPLE IN CONSTRUCTION, ECONOMICAL IN OPERATION,
POWERFUL AND RAPID IN PERFORMING THEIR WORK.

Write for Price Lists.

American Boiler Company

BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
195 Ft. Hill Sq. 84 Center St. 84 Lake St. 127 6th St.

NOTICE TO ARCHITECTS.



This cut shows the additional width, strength
and beauty of an eave finished with a hanging,
expanding Gutter hung with

"Berger's Favorite Hangers,"
now superseding every other device.

BERGER BROS.,
237 Arch Street, - PHILADELPHIA.

DIXON'S AMERICAN GRAPHITE PENCILS
FOR DRAUGHTING.

By mentioning *American Architect and Building News*, and sending 16 cents
in stamps, you will receive an assortment of draughting pencils worth
double the money, and unequalled for smooth, tough and uniform leads.

JOSEPH DIXON CRUCIBLE CO. - - JERSEY CITY, N. J.

BUILDING MATERIALS.

Reported for the American Architect and Building News.

	New York. (Wholesale Prices.)	Boston. (Price to Builders and Contractors.)	Chicago.	Philadelphia.
LUMBER. - P. M.				
Boards: (Ordinary dimensions.)				
Pine, 1st quality, clear	65 00 @ 75 00	55 00 @ 70 00	42 00 @ 50 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	27 00 @ 38 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	20 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	@ 25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock	ea 134 @ 14	10 00 @ 15 00	@ 12 00	11 25 @ 13 50
Yellow pine	23 00 @ 35 00	21 00 @ 34 00	21 00 @ 34 00	14 00 @ 29 00
Cypress	20 @ 40	28 00 @ 40 00	18 00 @ 34 00	@ 35 00
Clapboards:				
Pine	@	38 00 @ 55 00	19 00 @ 22 50	14 00 @ 25 00
Spruce	@	23 00 @ 38 00	Not sold.	Not sold.
Framing Timber:				
Pine	14 00 @ 18 00	14 00 @ 17 00	12 00 @ 17 50	25 00 @ 37 30
Spruce	12 00 @ 16 00	13 00 @ 15 00	Not sold.	16 00 @ 18
Hemlock	18 00 @ 21 00	20 00 @ 35 00	10 00 @ 13 00	13 00 @ 17
Yellow pine			24 00 @ 34 00	22 00 @ 28
Laths:				
Pine	Slab	2 25 @ 2 50	@ 2 40	2 75 @ 3
Spruce	1 65 @ 1 75	2 00 @ 2 50	Not sold.	2 30 @ 3 00
Shingles:				
Pine, shaved	P. M. 5 00 @ 6 00	@	Not sold.	
Pine, sawed	" 4 00 @ 5 00	@ 4 50	2 25 @ 2 50	
Spruce, sawed	" 1 50 @ 2 00	1 50 @ 00	Not sold.	
Redwood	" 1 40 @ 1 60	3 25 @ 3 75	6 00 @ 7 50	(30" \$35 @ 40
Cedar split	P. M. @	@	Not sold.	24" 8 @ 21
Cedar sawed	" @	2 00 @ 3 75	2 60 @ 2 75	20" 35 @ 14
Cypress, Split	7 x 24. " 18 00 @ 20 00	5 00 @ 6 00	3 50 @ 4 00	11 00 @ 14 00
Miscellaneous:				
Piles 6c. P. ft. 44 @ 54		Piles 6c. P. ft. 10 00 @ 18 00	Cut to order.	
Fence pickets, Common	8 00 @ 10 00	25 @ 50	P. 10 00 @ 22 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts)	@	25 @ 50	9 @ 21	40 @ 1 25
Chestnut posts	@	25 @ 50	Not sold.	20 @ 30
Finishing Woods: P. M. (First				
Ash	@ 55 00	45 00 @ 60 00	14 00 @ 30 00	42 50 @ 47 50
Cherry	@ 120 00	90 00 @ 120 00	35 00 @ 90 00	100 00 @ 120 00
Butternut	40 00 @ 60 00	60 00 @ 70 00	17 00 @ 35 00	70 00 @ 80 00
Hard-pine floors (rift)		42 00 @ 50 00		
Mahogany, Baywood (Mexican)	@ 180 00	160 00 @ 170 00	110 00 @ 170 00	150 00 @ 250 00
St. Domingo	@ 350 30	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Maple	45 00 @ 50 00	45 00 @ 50 00	12 00 @ 20 00	25 00 @ 55 00
Oak, red	@ 70 00	40 00 @ 50 00	17 00 @ 27 00	42 50 @ 55 00
" white	@ 70 00	45 00 @ 55 00	16 00 @ 28 00	45 00 @ 55 00
" quartered	@ 90 00	65 00 @ 75 00	34 00 @ 40 00	60 00 @ 75 00
Sycamore quartered		50 00 @ 65 00	25 00 @ 28 00	57 50 @ 65 00
Pine, clear	65 00 @ 70 00	50 00 @ 75 00	33 00 @ 50 00	@ 65 00
Redwood	60 00 @ 70 00	50 00 @ 70 00	40 00 @ 45 00	60 00 @ 75 00
Rosewood	@ 6		per M. 600 00	
Spruce floors clear, (kiln-dried).		32 00 @ 35 00		
Walnut, black	125 00 @ 150 00	85 00 @ 120 00	40 00 @ 75 00	50 00 @ 170 00
Whitewood	45 00 @ 50 00	35 00 @ 45 00	14 00 @ 30 00	25 00 @ 40 00
Yellow pine	@ 45 00	40 00 @ 42 00	31 00 @ 34 00	@ 42 00

CLINTON WIRE-CLOTH CO.,

Sole Proprietors and Manufacturers of

WIRE LATH DOUBLE TWIST WARP STIFFENED (Iron furred) CLINTON CORRUGATED

Plain, Japanned or Galvanized.

The Most Perfect and Economic System of FIREPROOF Construction.

SEND FOR CIRCULAR.

BOSTON, NEW YORK, CHICAGO, FACTORY,
199 Washington St. 76 Beekman St. 137 Lake St. CLINTON, MASS.



WORTHINGTON STEAM PUMPS

ARE THE STANDARD FOR
HYDRAULIC ELEVATOR AND HOUSE SERVICE.

Send for New Illustrated Catalogue.

Henry R. Worthington,
NEW YORK, 86 & 88 Liberty St.
BOSTON, 70 Kilby St.
PHILADELPHIA, 607 Arch St.
CLEVELAND, 24 South Water St.
CHICAGO, 185 to 189 Van Buren St.
ST. LOUIS, Eighth & St. Charles Sts.

Welded Chrome Steel and Iron. (5 ply)



We are the only manufacturers of Chrome Steel in the United States.

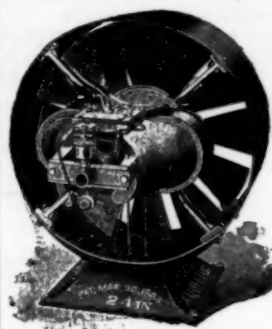
None genuine unless stamped with our Trade Mark.

FOR SAFES AND VAULTS

Positively Burglar-proof, cannot be Cut, Sawed, or Drilled,

CHROME STEEL WORKS, Brooklyn, N. Y.

BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
BRICK.—P. M.	(Wholesale)	(Prices.)	(Prices)	(Contractors.)
Common: Cargo afloat.				In Yard.
Pale.....	1 50 @ 1 75			Sq. Hard @ 9 00
Jersey.....	3 75 @ 4 25			Salmon @ 7 00
Long Island.....	@			Sq. " @ 9 00
Up River.....	3 75 @ 4 50	Domestic Com. 8 50 @ 9 50		Light Stretchers @ 10 00
Haverstraw Bay 2d.....	4 00 @ 4 25	Domestic Face 18 00 @ 25 00	Indiana Pressed 14 00 @ 20 00	Medium " @ 12 00
" 1st.....	4 37 1/2 @ 4 70	Philadelphia 35 00 @ 40 00	St. Louis Fronts @ 27 00	Red " @ 13 00
Hollow.....	@ 13 00	Phila. mould 50 00 @ 80 00		Dark " @ 13 00
Fronts:				Pressed @ 13 00
Croton, Brown.....	9 00 @ 12 00	Enamelled B'k. Imported.	15 00 @ 27 00	Best Paving @ 20 00
" dark.....	10 00 @ 13 00	Enam. (edge) 85 00 @ 105 00	65 00 @ 80 00	Second " @ 14 00
" red.....	10 00 @ 13 00	" (edge & end) 115 00 @ 120 00	45 00 @ 50 00	Thrd " @ 12 00
Chicago pressed (Anderson).....		Domestic. 60 00 @ 100 00	25 00 @ 30 00	Dom. " @ 65
" Moulded.....		Enam. (edge) 90 00 @ 100 00	60 00 @ 100 00	@ 87
Baltimore.....	37 00 @ 41 00	" (edge & end) 110 00 @ 115 00	55 00 @ 65 00	
Philadelphia.....	22 00 @ 23 00		@ 100 00	
Trenton.....	@ 19 00		@ 120 00	
Milwaukee.....				
Moulded:				
Glen Falls Red Pressed.....	@ 37 00			
" " Buff.....	@ 30 00			
" " Moulded Red & Buff.....	45 00 @ 70 00			
Enamelled: Imp.				
Enamelled (edge).....	85 00 @ 100 00			
Enamelled (edge and end).....	90 00 @ 115 00			
CEMENT, LIME, etc.—(P cash.)				
Rosendale Cement.....	80 @ 90	1 15 @ 1 25	Not sold.	1 30 @ 1 50
Louisville.....		Brooks, S. & Co.	1 05 @ 1 15	BS&Co 2 75 @ 3 00
Utica, Akron, Buffalo, Milw'kes.	Not sold.	2 40 @ 2 75	1 00 @ 1 10	2 85 @ 3 25
Portland, English (Gibbs).....	2 25 @ 2 50	2 40 @ 2 75	3 00 @ 3 10	2 85 @ 3 15
" (K. B. & S.).....	2 50 @ 3 00	2 40 @ 2 75	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross.....	2 25 @ 2 50	2 40 @ 2 75	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham).....	2 50 @ 2 50	2 40 @ 2 75	2 90 @ 3 15	2 75 @ 2 85
" " (White's).....	2 65 @ 3 00	2 40 @ 2 75	3 00 @ 3 25	
" French (Lafarge).....	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	
" German (Alsen).....	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	
" " (Fewer).....	2 25 @ 2 40		3 20 @ 3 40	
" " (Vorwöhler).....	2 50 @ 2 90			
" " (Lagerdofer).....	@			
" " (Dyckerhoff).....	2 60 @ 2 90	2 40 @ 2 75	2 75 @ 3 00	
" " (Hanover).....	2 50 @ 3 00	3 00 @ 3 50	3 25 @ 3 50	
" Stettin (Anchor).....	2 35 @ 2 85	Not Sold.	Not sold.	
" American (Saylor's).....	2 15 @ 2 25	" "	Not sold.	
Roman.....	2 75 @ 3 00	@ 3 50	2 60 @ 2 70	
Keene's coarse.....	4 50 @ 5 30	@ 6 00	2 75 @ 3 25	
" superfine.....	5 00 @ 5 50	7 00 @ 9 00	6 00 @ 7 00	
			9 00 @ 10 50	
Lime:				
Lime of Tell.....	3 50 @ 4 00		Not sold.	White Lime P bush. 25 @ 31
Hydraulic Lime.....	@ 1 45		60 @ 70	White Mash { 1 25 @ 1 50
Chicago Lime in bulk.....	{ St. John @ 85	St. John 90	60 @ 70	1 00 @ 1 00
Wisconsin Lime.....	@ 85	@ 95	Not sold.	
Rockland and Rockport, (Com.).....	@ 1 00	@ 1 00	Not sold.	
Rockland and Rockport, finish.....	@		1 00 bulk, 75c.	
Kelley Island Lime, finish.....	@ 80	Not sold.	Not sold.	
State, com. cargo rates (nom.).....	1 05 @ 1 10	Not sold.	Not sold.	
State, finishing.....	1 40 @ 1 50	1 85 @ 2 00	1 85 @ 1 90	
Plaster of Paris (calcined).....	@ 1 00	@ 2 25	1 85 @ 1 90	
" (casting).....	18 @ 21	25 @ 30	16 @ 20	
Hair (Cattle) P bush.....	21 @ 25	@ 30	30 @ 35	
" (Goat).....	1 00 @ 1 25	1 75 @ 1 90	@ 60	
Sand, P load.....				
STONE. (P cubic foot, rough.)				
Granite: (Maine)		@ 60		
Limestone:				
Bedford.....	45 @ 1 25	95 @ 1 00	50 @	
Joliet.....	@ 1 00		3 @ 55	
Lemont.....			3 @ 80	
Serpentine.....		10 50 per ton	@ 1 00	



KEEP COOL
BY USING
THE SMITH
VENTILATING
FAN.

KEEP WARM
BY USING
THE SMITH
HOT BLAST
APPARATUS.

Both Manufactured by
THE HUYETT & SMITH MFG. COMPANY,
Heating and Ventilating Engineers,
DETROIT, MICH.

Write for Catalogue, mentioning this paper.

McCRAY REFRIGERATOR AND COLD STORAGE CO.,

Cooling Rooms for public Institutions, Hotels,
Fine Residences, Groceries, and
Meat Markets.

KENDALLVILLE, IND.
CHICAGO OFFICE: 42-157 Washington St.

CATALOGUE FOR 1894 OF Architectural Books.

SEND FOR CLEARANCE CIRCULAR.
WM. T. COMSTOCK, Pub., 23 Warren St., N. Y.



ESTABLISHED
1852.
Incorporated
1891.
Capital \$80,000.
LEVI L. WILCOX, Pres't
EPH. C. DAVIS, Treas'r

NEW ENGLAND FELT ROOFING WORKS,

22 MILK ST., BOSTON.
Originators of Felt Roof-
ing in New England.
Inventors and only Manu-
facturers of the Celebrated
"BEEHIVE BRAND."

BURDITT & WILLIAMS, BUILDERS' HARDWARE.

Representatives of Leading Manufacturers of
Refer to the prominent Architects of Boston,
New York and Washington, as well as to many
of the finest Public Buildings and Residences
in all parts of the United States.
Branch Office, 20 Dock Square,
WASHINGTON, D. C. BOSTON, MASS.

Heliotype Printing Co.,

211 Tremont Street, Boston.

ESTABLISHED 1872.

- PHOTO-LITHOGRAPH.
- PHOTO-COLOR-LITHOGRAPH.
- PHOTO-GELATINE.
- PHOTO-GRAVURE.
- PHOTO-ENGRAVING.

COPIES OF ARCHITECTURAL,
MECHANICAL AND OTHER
DRAWINGS, MAPS, PLANS, ETC.,
PORTRAITS, VIEWS AND ALL
BOOK ILLUSTRATIONS.

Heliotype Printing Co.

HISTORICO-BIOGRAPHICAL DICTIONARY OF ARCHITECTURE.

Les Architectes par leurs Œuvres

Ouvrage rédigé sur les manuscrits
de feu AL. DU BOIS (de l'École Polytechnique),
Architecte du Gouvernement.

Par ELIE BRAULT.

VOLUME I. L'Antiquité; Le Moyen-Age; La Renaissance Italienne.

VOLUME II. La Renaissance Française; Le XVII^e Siècle; L'Architecture Rococo.

VOLUME III. Classiques et Romantiques; L'Éclectisme prend la place du style absent; L'Architecture du Fer.

PARIS, 1893.

Three volumes, large 8vo, containing nearly 1,400 pages in all and
illustrated with 142 photocollographic portraits
of eminent architects.

Price complete, bound in paper covers, \$10.00.

Orders taken at the Office of

The American Architect,
211 Tremont Street, Boston.

ALPHABETICAL LIST OF ADVERTISERS.

The (E) indicates that the advertisement may be found in the last or the following issue: the (M) that it may be found in the first issue for each month.

A.	E.	K.	P.
Abel, C. C. & Co.xii, (Cov.) 3	Elektron Mfg. Co.i	Karr, C. P.xii	Paradigm Construction Company(Cov.) 2
Adco & Co., Fred.xviii		Kesbey, H. A.viii	Pardee, C.xix, xx
Anschlitzmann & Fellaria.i	F.	Kesbey & Matison Co.x	Pascoe Rolling Mill Co.xv
Aisen's Cement Works.M	Falt & Co., J. P.xv	Kerway, Percy N.xii	Penn Elevator Engineering Co.i
American Boiler Co.xiii	Farquhar's Sons, John.x	Kidder, F. E.xii	Penn Iron Roofing & Corrugating Co.M
American Fireproofing Co. (Salamander).xix	Farvard & Votey Organ Co.M	Kilbourne & Jacobs Mfg. Co.xix	Perth Amboy Terra-Cotta Co.xix
American Mineral Wool Co.xix	Fisher & Co., Robert C.x		Phenix Iron Co.xix
Apollo Iron & Steel Co.(Cov.) 3	Fiske, Homes & Co.xix	L.	Pioneer Fireproof Construction Co.xix
Armstrong & Co., Maitland.i	Fitzgerald, J. Leland.xix	Lamb & Ritchie.ii	Pitt, W. B.M
B.	Fleming Cement & Brick Co.x	Lane Bros.M	Power, M. J.xiii
Babcock & Wilcox.x	Flynt Building & Construction Co.i	Lawrence Cement Co.(Cov.) 4	Pray, Sons & Co., John H.x
Babcock & Wilcox.x	Foley Snow Guard Co.M	Lord & Burnham Co.xiii	Prescott, J. B. & Son.E
Baldy & Truscott.x	French & Co., Samuel H.(Cov.) 3	Ludlow Saylor Wire Co.M	
Baltimore Roofing Tile Co.xx	Frunk, I. F.xiii	M.	R.
Bell, George H. & Co.xiii	Frut & Adams.E	Marey & Gardner.E	Handolph & Clowes.x
Bellmont Iron Works.E	G.	Marke, A. A.xiii	Harlan Hollow & Porous Brick Co.xix
Berger Bros.xiii	Globe Ventilator Co.xviii	Masqueray, E. L.xii	
Berger Mfg Co.E	Globe Iron Works.xix	Mathews Decorative Glass Co.(Cov.) 3	S.
Bickelhaupt, G.(Cov.) 3	Gorton & Lidgerwood Co.E	Maurer & Son, Henry.xix	Hanson Cordage Works.E
Blake Bell Co.x	Goulds Mfg. Co.xiii	McCray Refrigerator and Cold-Storage Co.iv	Smith & Anthony Stove Co.(Cov.) 3
Brand, James.xix	Graves Elevator Co.ii	McCully Glass Company.M	Smith & Edge Mfg. Co.(Cov.) 3
Bridgeport Wood Finishing Co.E	Gurney Heater Mfg. Co.xiii	Mechant & Co.xix	Smith Co., H. B.xiii
Bruxy, W. R.xix	H.	Metallic Setting Co.x	Spaulding & Moss.x
Brooks, Shoenbridge & Co.xix	Haberstroh & Son, L.E	Miller, J. & Bro.xix	Standard Elevator Co.M
Brooks, T. H. & Co.M	Haines, Jones & Cadbury Co.xix	Miller & Coates.xix	Stebbins Mfg. Co.E
Brownville Maine Slate Co.xix	Harlan & Hollingsworth Co.xix	Moore & Co., E. B.xix	Stewart Ceramic Co.E
Buckeye Portland Cement Co.ii	Hayes, Geo.xix	Moore & Wyman.i	
Burditt & Williams.iv	Heliotype Printing Co.xix	Mott Iron Works, J. L.xvii	T.
C.	Hill, George.xix	Murphy Varnish Co.x	Taylor Co., N. & G.E
Cabaret, Paul E.xix	Hitchings & Co.E	N.	Taylor, J. W.x
Cabot, S.xix	Holmes, F. S.xix	National Lead Co.xii	Thiele, E.x
Central Expanded Metal Co.E	Howson & Howson.xix	Newcastle Asphalt Co.x	Thorn, J. S. Co.xix
Charles, H. C. & Co.xix	Huyett & Smith Mfg. Co.iv	New England Felt Roofing Works.x	Thorn Shingle & Ornament Co.E
Chicago Interior Decorating Co.xix	Hydraulic Press Brick Co.xix	New England Water Pipe Co.xvii	Tiffany Glass & Decorating Co.i
Chrome Steel Works.xix	I.	New Jersey Wire Cloth Co.xix	Tiffany Pressed Brick Co.xix
Cincinnati Corrugating Co.xix	Indianapolis Terra-Cotta Co.xix	New York Architectural Terra-Cotta Co.xix	Ticknor & Co.xix
Clark, Bunnett & Co.(Cov.) 4	J.	New York Mastic Works.xix	Troy Laundry Machinery Co.(Cov.) 4
Clark, G. S.xix	Jackson Architectural Iron Works.xix	New York Metal Ceiling Co.xix	
Clinton Wire Cloth Co.xix	Jackson, E. A. & Bro.xix	Nightingale, S. C. & Childs.xix	U.
Comstock, Wm. T.xix	Jarden Brick Co.xix	Northrop, H. S.xix	U. S. Tubular Bell Co.xiii
Continental Insurance Co.(Cov.) 4	Jenkins Bros.xix	Northwestern Terra-Cotta Co.xix	
Correspondence School of Industrial Sciences.xix	Johnson & Williams.(Cov.) 4	Norton Cement Co., F. O.xix	V.
Cudell, F. E.xix	Jones, T. W.(Cov.) 4	O.	Valis & Young.(Cov.) 3
Cutler Mfg. Co.xiii		Okonite Co. (Ltd.).E	W.
D.		Olds Bros. & Co.xix	Waldo Bros.xix
Dauchy Iron Works.xix			Warren Chemical & Mfg. Co.xix
Deane, K. Eldon.xix			Watfield, Thomas.M
Devos & Co., F. W.xix			Whittier Machine Co.xix
Dexter Bros.(Cov.) 3			Wicks Refrigerator Co.xix
Dixon Crucible Co., Jas.xix			Wilks Mfg. Co., S.xix
Duggan, T. H.xix			Williams, John.xix
			Wilson, Jas. O.xix
			Worthington, Henry R.xix
			Y.
			Yale & Towne Mfg. Co.xix

THE
WORLD'S FAIR EXTRA
of the
AMERICAN ARCHITECT.

Contains twenty gelatine prints of some of the Exhibition buildings and their details, already published in the International Edition.

Five of these prints are double-page plates, the others being single-page.

FOR SALE AT THIS OFFICE. Price, \$3.50.

CHICAGO, ILL.

"Allow me to thank you for the beautiful number just received, called the 'World's Fair Extra' and to compliment you on it. Every leaf is good."

D. H. BURNHAM,
Late Chief of Construction.

CHICAGO, ILL.

"Your World's Fair Illustrations are exceedingly fine and are decidedly, to many of us, the most interesting and valuable of your illustrations. I propose to have them bound separately as a World's Fair Album."

W. L. B. JENNEY,
Architect of the Horticulture Building.

BOSTON, MASS.

"I have been delighted with the series of photographic reproductions of Architecture at the World's Fair published in the *American Architect*."

CHAS. G. LORING,
Director of the Boston Museum of Fine Arts.

BOSTON, MASS.

"I must thank you specially for sending me your beautiful World's Fair number."

S. R. KOEHLER,
Curator of Print Dept. Boston Museum of Fine Arts.

PHILADELPHIA, PA.

"I desire to testify to their excellence; they are without exception the best reproductions of the many views that have come under my notice."

THOS. P. LONSDALE, Architect.

CAMBRIDGE, MASS.

"I think the plates are the finest I have seen."

C. H. McCLARE, Architect.

DULUTH, MINN.

"Best plates, so far published, that we have seen."

TRAPHAGEN & FITZPATRICK, Architects.

NEW YORK.

"By far the most satisfactory representations of the Fair that have been published."

MONTGOMERY SCHUYLER,
Author of "Studies in American Architecture."

Etc. Etc. Etc. Etc. Etc.

! FREE !

This "World's Fair Extra" will be sent free to *new* subscribers to the International Edition of the *American Architect* for 1894.

AMERICAN ARCHITECT & BUILDING NEWS CO., Publishers.

211 Tremont Street, Boston.

CABOT'S CREOSOTE SHINGLE STAINS



Loring & Phipps Arch'ts Boston



SUMMER COTTAGE
THOUSAND ISLANDS
P. B. F. ARCHT. 1893



Don't specify paint for shingles; it isn't artistic. Don't specify a Stain that will turn black in a few years, because it looks dirty and you have to paint it over to change the color. Specify a stain that will hold its color and grow old gracefully—like Cabot's, which was the first shingle stain ever made, and is now, as always, first in durability, first in economy, and first in favor with those who have used it. *Every gallon guaranteed.*

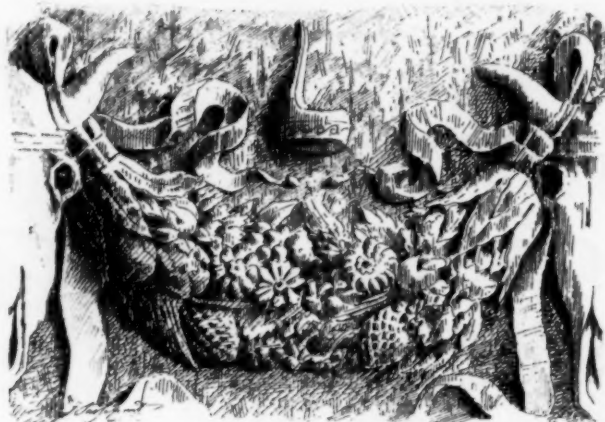
Large or small wood samples, circulars and water-color reproductions of color schemes, sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

Agents at all Central Points. **70 Kilby St., BOSTON, MASS.**



From a Cannon.



Antique in the Vatican Museum.



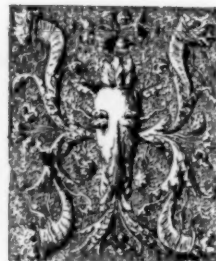
From a Cuirass.



Spanish Tile.



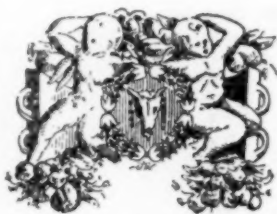
Designed by Beham.

From the House of Agnes Sorel,
Orleans, France.

Fouquet's Coat-of-Arms.



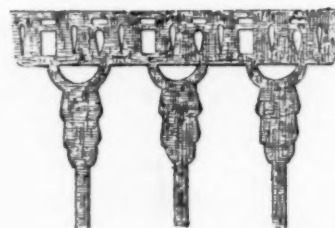
From a Funeral Stèle in the Louvre.

From the Church of the Holy
Trinity, Florence, Italy.

Border by Ducrocq.



From a Mantelpiece by Phillibert Delorme.

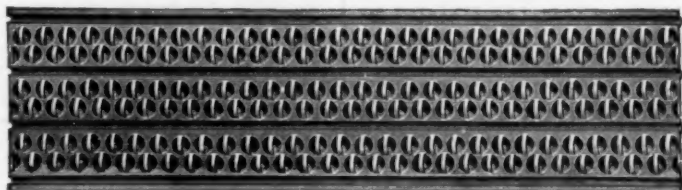


Egyptian.

BUCRANIA.



"Piqua" Steel Lath.



"Piqua" Lath is made from the best quality of steel, in sheets 27 1/4 x 48 inches, and each sheet covers exactly one square yard of surface. The corrugations shown in cut are 3 1/4 inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.

MERCHANT & CO., Incorporated,

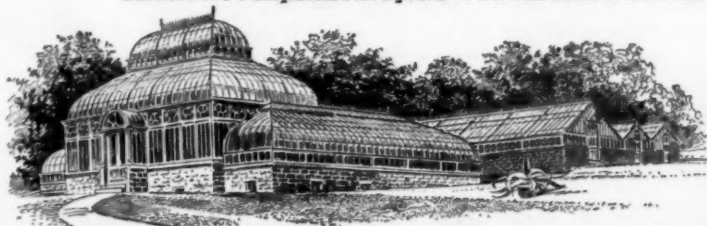
Sole Manufacturers of the



STAR VENTILATOR

MADE OF GALVANIZED OR LEAD-COATED SHEET-IRON, COPPER OR BRASS.

HITCHINGS & CO., Established 50 years.
HORTICULTURAL ARCHITECTS AND BUILDERS
and largest Manufacturers of
GREENHOUSE, HEATING AND VENTILATING APPARATUS.



Conservatories, Greenhouses, Palm Houses, etc., erected complete with our patent Iron Frame Construction. Plans and Estimates of cost and illustrated catalogues sent on application.

233 MERCER STREET, N. Y.

James A. Miller & Bro.

Slate
Tin
Tile and Iron

Roofers . . .

Galvanized Iron and Copper

Cornices, Bays
Skylights, etc.



Special Attention . . .
to Large First-class Work
Fully Guaranteed.

Our facilities, resources and experience are such that we feel able to compete for large work in our line, almost anywhere in the United States, and will be particularly pleased to do so now when there is so little work going on in this city.

129-131 South Clinton Street,
Chicago.

PERSPECTIVE DRAWINGS.

During the current year Pen-and-Ink or Water-color Perspective Drawings have been rendered in the

DRAWING OFFICE

OF THE

"AMERICAN ARCHITECT"

For the Following Architects.

BOSTON.

Peabody & Stearns.
Winslow & Wetherell.
Shepley, Rutan & Coolidge.
C. Brigham.
Wait & Cutter.
Blackall & Newton.
Longfellow, Alden & Harlow.

SPRINGFIELD, MASS.

Gardner, Pyne & Gardner.

WORCESTER, MASS.

G. H. Clemence.

PROVIDENCE, R. I.

Stone, Carpenter & Willson.

ALBANY, N. Y.

Fuller & Wheeler.

BUFFALO, N. Y.

C. D. Swan.

PHILADELPHIA, PA.

G. T. Pearson.

BALTIMORE, MD.

Wyatt & Nötting.
J. A. & W. T. Wilson.
J. E. Sperry.

PITTSBURGH, PA.

F. J. Osterling.
W. S. Fraser.

YORK, PA.

J. A. Dempwolf.

LYNCHBURG, VA.

E. G. Frye.

MINNEAPOLIS, MINN.

W. D. Dunnell.

TORONTO, CANADA.

Strickland & Symons.

ST. JOHNS, NEWFOUNDLAND.

J. Wills & Son.

And others.

SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.

Slate, Copper, Tin and Gravel Roofing.

Nos. 20 and 22 EAST STREET, BOSTON.

Order Box at Master Builders Association,
164 Devonshire Street.Special attention given to Repairs
of all kinds.

Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs, acknowledged to be the strongest method in use, and has been applied to many of the best constructed and largest buildings in this country.

Contracts made for Work wherever desired.

ASPHALT ROOFING AND PAVING MATERIALS.

WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.
Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO.

81 & 83 Fulton Street, NEW YORK, U.S.A.



THE JENKINS AUTOMATIC AIR VALVE has proved to be all we claimed for it, i. e., a Positive and Reliable Air Valve. The expandible plug is a special compound, and MANUFACTURED EXPRESSLY for use in the JENKINS AUTOMATIC AIR VALVE. It does not deteriorate or lose its flexibility under the action of heat or steam. With the Jenkins Automatic Air Valve, you should connect with a drip pipe, thus insuring a positive circulation. We guarantee them to be as represented. Our trade-mark is on every Valve.

JENKINS BROS., New York, Boston, Chicago, Philadelphia.



HEATING THE COUNTRY HOME

In mild weather—say up to Thanksgiving—one Jackson Ventilating Grate will heat an entire residence. In zero weather, one will heat 7,000 cu. ft. of space.

Send for Catalogue B.

EDWIN A. JACKSON & BRO., 50 Beekman St., New York.



YALE LOCKS

BROWNVILLE MAINE SLATE COMPANY.

Office, WORCESTER, MASS.

Unfading black roofing-slate. Strongest, toughest, most durable slate in the world. Punching does not damage it. It may be punched full of holes an inch or two apart without breaking. Drilled when desired.



STATE LUNATIC ASYLUM, WORCESTER, covered with our Slate.

Toughest
Slate,
Fewest
Leakages.
Oldest
quarry
in Maine.

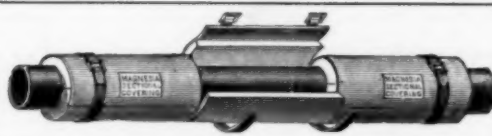
BLACKCROSS PORTLAND CEMENT

IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,

IMPORTERS ROMAN, KEENE'S, VICAT CEMENTS, 23 Liberty Street, NEW YORK.
ENGLISH GLAZED BRICKS.

Absolutely



Fire-Proof.



MAGNESIA

SECTIONAL

STEAM PIPE AND BOILER COVERINGS.

THE GREAT COAL-SAVER.

SELLING AGENTS:

Boston, S. C. Nightingale & Childs, 134 Pearl St.
New York, Robert A. Keasbey, 54 Warren St.
Philadelphia, Macan & Co., 1430 Callowhill St.
Baltimore, Wallace & Bro., 432 E. Pratt St.
Washington, Wm. B. Morgan, Builders' Ex'c.
New Orleans, Delbert Engineering Co., 23 Union St.
Memphis, Symmes & Co., 192 Front St.

MANUFACTURED BY

THE KEASBEY & MATTISON CO.,

CINCINNATI: AMBLER, CLEVELAND:
114 West Second St. PA. 117 Water St.

SELLING AGENTS:

Milwaukee, F. Sprinkman, 133 Sycamore St.
Louisville, W. W. Hite & Co., 176 Fourth St.
St. Louis, F. Bodler, 108 Walnut St.
Detroit, S. P. Conkling, 20 Atwater St., East.
Denver, C. W. Badgley & Co., 18th & Market Sts.
Salt Lake City, Utah & Montana Machinery Co.
Butte City, Mont., R. W. James.
San Francisco, DeSolla & Deussing, 2 California St.

ASPHALT FLOOR ROOFS
SIDEWALKS AND CARRIAGE-WAYS.Of Public Buildings, Hospitals,
Warehouses, Stables, Cellars, etc.Laid with VAL de TRAVERS ROCK ASPHALT,
DURABLE, FIREPROOF AND IMPERVIOUS.

For estimates and list of works executed, apply to

THE NEUCHÂTEL ASPHALT CO., Limited,
265 BROADWAY. - - - NEW YORK.Brown's Patent Seamless
DRAWN COPPER HOUSE BOILERS.

Cannot collapse.

Will not leak.

Ordinary boiler tested to 200 lbs.

Extra heavy tested to 300 lbs.

Made of two seamless drawn copper shells.

Handsome, best and strongest

in the market.

Send for circular giving instructions

for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES,
Waterbury, Conn.

Western Depot: 71 West Washington

St., Chicago. Branch Offices: 104

John St., New York; Room 320 Phila-

delphia Bank Building, Philadelphia;

99 Milk St., Boston; Room 208, Neave

Building, Cincinnati.

Proprietors of the Brown & Bros. Tub-

ing and Boiler Works, and the Brown &

Bros. Brass and Copper Rolling Mills.

Makers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

Chicago Interior Decorating Co.

Bank, Office & Club
Equipments.

Mantels. Tiles. Ceramic Mosaics

FINE SPECIAL FURNITURE.

Highest grade of first class goods.

Drawings and Estimates furnished upon application.

149 & 150 Michigan Ave., Chicago, Ill.

Formerly occupied by the Henry Dibblee Co.

BLAKE BELL CO.

Successors to Wm. Blake & Co.

Bell Founders and Brass Finishers.

Castings in any metal
except iron.

Monumental Tablets, Artistic

Brass Work.

Allen and Brighton Sts., BOSTON.

J.W. TAYLOR'S PHOTOGRAPH SERIES.

51 MONROE ST. CHICAGO. OF AMERICAN ARCHITECTURE.

Removed to Owings Building.

Send two 5 cent stamps for Catalogue.

PARQUET FLOORS.

The National Wood Manufacturing Co.,

129 5th Avenue, New York.

WAINSCOTINGS and CEILINGS.

Inlaid Wood Floors 5-16 and

7-8 inch thick.

Solid work, Tongued and Grooved

in each piece.

Designs & Estimates on applica-

tion. Established 1867.

Irvington-on-Hudson, N. Y.—The building of town hall is under consideration.

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING, DREXEL BUILDING, MONADOCK BUILDING, DASHWOOD HOUSE,
NEW YORK. PHILADELPHIA. CHICAGO. LONDON.

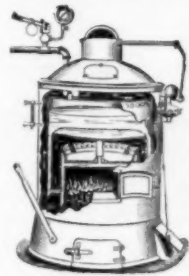


Announce to all who contemplate *building or renovating*
Hotels, Office Buildings or Residences, that they have
formed a department in their extensive works for
Architectural Woodwork,
Fine Cabinet Work, and
Interior Finishing.

Plans, designs, specifications and further particulars will be submitted on ap-
plication. Address **WORKS AT WILMINGTON, DEL.**

The "Peerless" STEAM and HOT WATER HEATER.

The Simplest, Cheapest and Best.



Agents Wanted.

MECHANICAL DEPARTMENT, PHILADELPHIA, PA.
The Peerless Boiler that I am using is giving good satisfac-
tion.
JOHN WANAMAKER.

Sirs:—We can in all honesty recommend your heating
apparatus as superior to any we know of, as we have investi-
gated many. It **Uses Less Coal and Gives More Heat**
per ton of coal used, with less trouble than any we know of.
Have used it two years without one cent's worth of repairs
in that time. Would not do without it for twice what we
paid for it.
Yours truly,

G. W. BEDDALL,
ED. A. BEDDALL,
NATHAN BEDDALL.



HON. JOHN WANAMAKER.

For Catalogues, Testimonials, Terms, &c., address

GEO. H. BELL & CO., 41 Dey St., New York City, N. Y.
Sole Agents for the United States.

BUILDING INTELLIGENCE.

(Advance Rumors Continued.)

Jamaica, N. Y.—A new primary school-building will be built.

Lebanon, Pa.—H. G. Bromley, a textile manufacturer of Philadelphia, has offered to locate a factory to cost about \$40,000, if parties residing here will subscribe about \$25,000 towards it. The proposition is meeting with favor.

Lockport, N. Y.—The Board of Education has appointed a committee to procure plans for a school.

McKees Rocks, Pa.—J. Q. Waters, Secretary of Stowe Township School Board can give information in regard to the building of a frame school, to be built near Davis Island Station.

Memphis, Tenn.—Continental National Bank will build a \$50,000 building.

Minneapolis, Minn.—F. M. Goldstein will build a brick and stone four-story building, 36' x 66', on 1st Ave., bet. 4th and 5th Sts., north, to cost \$20,000.

About 50 six and eight-room houses will be built in Northeast Minneapolis by the Columbia Heights Bldg. Co.; F. G. McMillan, Minneapolis, will superintend.

Minooka, Pa.—A project for building a new high school is being agitated.

Newport, R. I.—The City Council has voted to submit to the people a proposition to build a new city-hall to cost \$225,000.

New York, N. Y.—The Metropolitan Life Ins. Co. is said to be desirous to purchase the property of the Madison Square Presbyterian Church at Madison Ave. and 24th St., with a view to erecting on that site an addition to the Company's new building.

North Tonawanda, N. Y.—A new Veterinary Hospital will be built by Dr. H. S. Wendt.

Philadelphia, Pa.—Preliminary drawings are being made of a large building for amusement purposes, to be known as the Coliseum, which a syndicate who have an office at 323 Walnut St. proposes to build; arch., John D. Allen, 1017 Chestnut St.

Broad St., below Locust St., work on the new Horticultural Hall, to occupy the site of the old structure, it is expected will be begun in the fall. The new edifice, which is to cost about \$100,000, will be of brick and terra-cotta, three stories high with basement.

Providence, R. I.—A site will be chosen for a new high school.

Raleigh, N. C.—The Gaffney Mfg. Co. will build at once a cotton-mill of 25,000 spindles and 900 looms.

Reading, Pa.—Centre Ave., near Olney St., a permit has been secured by J. W. Minnich for a handsome private residence.

Rhineland, Wis.—An \$18,000 hospital is projected. Rev. Father Joch of Marshfield, Wis., is interested.

San Francisco, Cal.—The Olympic Salt Water Co. are to build a new bathing establishment, to cost about \$100,000, and also an addition to its present building, to cost \$40,000.

Sinton, Tex.—Court-house and jail to cost \$35,000 will be built. The Commissioners' Court will give information.

South Bethlehem, Pa.—Seven dwells. will be erected for Gramer Bros.

St. Louis, Mo.—Rev. P. J. Lotz will build a new church to be called St. Francis de Sales.

St. Paul, Minn.—R. L. Winne proposes to build a large apartment-house on East 10th St. Lovens & Anderson propose to build a \$15,000 apartment-house on East 12th St.

Trinidad, D. C.—Albert G. Brooke will build 3 two-story brick and stone dwells., 17' x 50'.

Washington, D. C.—A. H. Lowrey will build a \$150,000 fireproof hotel at the n e cor. 7th and G Sts.

The 15th St. M. E. Church will build a new edifice at the cor. of 15th and R Sts. It will be of brick and stone, 55' x 89', spire 140' high, slate roof.

The Columbia Railroad will build a power-house

BUILDING INTELLIGENCE.

(Advance Rumors Continued.)

and car-house on Bennings Road, to cost about \$60,000.

William C. Schneider will build a five-story stone house, 25' x 120', on K St., next lot to late house of Senator Palmer, No. 1435, and will also build an addition of 11 rooms to the Palmer House.

R. C. Lewis will build a two-story frame cottage, 23' x 69', on 13th St., Mt. Pleasant.

Winnipeg, Man.—W. Barry will build a hotel to cost \$18,000.

ALTERATIONS AND ADDITIONS.

Brooklyn, N. Y.—Fulton St., n e cor. Franklin Ave., three-story, cellar and basement brick dwell., tin roof, 42' 1 1/2' x 49' 1 1/2'; 2 one-story and cellar brick extensions, fireproof composition roofs, one, 15' x 30', one 16' 6" x 30', to be added, internal and other alterations made; \$3,000; own., John Schrimpf, Jr., 910 President St.; arch., Kafka & Mott, 137 Broadway, New York City.

Camden, N. J.—Benson St., s e cor. 4th St., alterations and additions to church; con., Chas. Wrifford & Son, 309 South 3d St.

Chicago, Ill.—H. B. Larson, one-story brick addition, 1000-1002 Milwaukee Ave.; \$3,000.

St. Alphonsus Church, one-story brick addition 637 Southport Ave.; \$15,000.

H. Sauer, one-story brick addition, 1303 Lawndale Ave.; \$3,000.

Dearborn, Mich.—Gordon W. Lloyd, additions to St. Joseph's Retreat; \$20,000.

Georgetown, Conn.—Two-story frame addition for manufacturing, 38' x 160'; own., Gilbert & Bennett Mfg. Co.; arch., F. S. Morehouse, South Norwalk, Conn.

Harrisburg, Pa.—Three-story addition to court-house, 34' x 92'; about \$12,000; arch., D. R. Miller & Co., 219 Market St.

New Haven, Conn.—Highland St., brick addition to St. Francis Orphan Asylum; \$40,000; arch., W. H. Allen.

Philadelphia, Pa.—Ashton Road, n s, near Welsh Road, two-and-a-half-story frame addition to dwell. and new barn; own., Chas. Dudley, Welsh and Ashton Roads.

Passyunk Ave., No. 1512, alterations to storage warehouse; own., John Dunne; con., Wm. Morrow, 1423 South Seventh St.

Quarry St., Nos. 214-216, interior alterations to four-story brick factory; own., Wm. Myer; con., David F. Woodoth, Moorestown, N. J.

South Eighth St., No. 19, interior and exterior alterations to store; con., B. R. Sparc, 718 Wood St.

Church St., No. 2715, alterations to store and dwell.; con., Andrew Moore, 2310 Spring Garden St.

Leiper St., No. 1227, brick and iron addition; own., Hon. John Wanamaker, Market and 13th Sts.; con., Andrew Shearer.

Market St., Nos. 432-34, six-story brick addition to clothing-house; con., Wm. C. McPherson, Jr., 612 Betz Building.

Ellsworth St., s w cor. Passyunk Ave., alterations to store and dwell.; own., Mrs. Witte; con., Jacob Myers, s e cor. Locust and 13th Sts.

South Nineteenth St., No. 326, one-story brick addition to provision store; con., James E. Dalbey, 2012 Lombard St.

Willow St., No. 154, exterior alterations and new brick front to four-story factory; own., J. F. McCloskey, 212 New St.

Thompson St., s e cor. 8th St., exterior alterations to stone school; con., M. McManus, 313 North 2d St.

Cumberland St., s w cor. Hancock St., interior and exterior alterations to stone school; con., M. McManus, 313 North 2d St.

Pine St., n w cor. 17th St., interior alterations to three-story brick store and dwell.; con., J. J. Fitzgerald, 1744 Rittenhouse St.

Stiles St., No. 1532, new brick front and exterior

ARCHITECTURE



DIPLOMAS AWARDED. Courses in other trades, all including thorough instruction in Mathematics and Physics. Send for FREE circular stating subject you wish to study to The Correspondence School of Industrial Sciences, Scranton, Pa.

BUILDING INTELLIGENCE.

(Alterations and Additions Continued.)

and interior alterations to three-story dwell.; bld., L. H. Eckard, 1321 North 15th St.

Walnut St., No. 1020, two-story brick, stone and frame back building for store and show purposes; con., James W. Howard's Sons, 1336 Pine St.

Cumberland St., n e cor. 16th St., 2 three-story brick and stone additions, 25' x 30' each, to the M. Hall Stanton public school; con., Thomas C. Trafford, 2332 North Broad St.

Catharine and Broad Sts., two-story brick and terra-cotta addition, 45' x 50', to the Howard Hospital; arch., Charles Balderston, 144 South 4th St.

Locust and Thirty-ninth Sts., interior and exterior alterations to dwell.; own., William B. Weir; arch., Charles Barton Keen, 132 South 4th St.

Eighth St., above Race St., interior alterations to Star Theatre, including elevation of roof, another gallery and considerable detail work; arch., George Plowman, 1406 Chestnut St.

North Sixth St., Nos. 431-35, interior and exterior alterations to the Philadelphia Turngemeinde Club-house; con., Matthew Schmid, 639 North 6th St.

Columbia Ave., No. 2016, interior and exterior alterations to store and dwell.; own., Capt. John Somers.

Sansom and Eighth Sts., interior and exterior alterations to store; con., P. O'Meara, 1930 North 23d St.; arch., Willis G. Hale, 1524 Chestnut St.

Rope Ferry Road, near Magazine Lane, two-story brick addition, 30' x 30', to the Franklin Public School; con., Charles O'Neill, 1216 South Broad St.; J. D. Austin, architect to the Board of Education.

Lombard St., No. 531, interior and exterior alterations and three-story extension to the Rescue Home for Women; con., Thaddeus Applegate, 5325 Haverford Ave.

Chestnut St., s e cor. 9th St., extensive alterations embracing an electric-light plant costing about \$50,000 are to be made to the Continental Hotel. Basement will be lowered five feet for new boiler and heating arrangements; con., Coatesville Boiler Works; engineer, Charles Edgerton, Drexel Building, Chestnut and 5th Sts.

Callowhill St., above 12th St., alterations and repairs to burned blacksmith shop, 60' x 110'; about \$2,000; own., J. S. Thorne; con., Chas. McCaul, 10 North 11th St.

Chestnut St., No. 1020, interior alterations to four-story brick store; con., W. R. Dougherty, 1604-6 Sansom St.

Cumberland St. and Kensington Ave., front alterations to two-story iron car-barn; about \$2,000; own., Electric Traction Company; con., Charles McCaul, 10 North 11th St.

Twenty-third Ward, interior and exterior alterations to the Henry Herbert three-story public school; con., H. B. Coyle & Son, 622 Filbert St.

Trenton Ave., s e cor. Allegheny Ave., additional brick story on two-story hosiery factory, 40' x 150'; in the s e cor. of the structure a tower fire-escape will be placed; own., Robt. Hearty & Bro.; con., J. Blood Bro. & Jackson, 2371 Townsend St.

Pottsville, Pa.—Plans have been prepared for remodeling and enlarging the brewery of Charles Heiting & Son. They include a new brew house, malt-room, malt-house and storage for beer and malt; arch. and engineer, A. C. Wagner, 516 Walnut St., Philadelphia.

Providence, R. I.—Westminister St., Nos. 239-249, addition of two-and-one-half-story and alterations to store front, iron and brick; \$40,000; own., Boston Store Land Co.; arch., Wm. R. Walker & Son; bld., J. W. Bishop & Co.

Aborn St., addition and alteration to business block; \$5,000; own., Central Real Estate Co.; arch., Geo. W. Cady & Co.

Somerville, Mass.—Highland Ave., the Home for the Aged Poor is to have a chapel 32' x 80' and wing 50' x 80' added to the present buildings; arch., W. H. & J. A. McGinty, Boston, Mass.

St. Louis, Mo.—Addition to hospital, e s 27th St., bet. Olive and Locust Sts.; \$15,000; own., Sisters of Mercy.

One-story addition to dwell., s s Olive St., bet. Compton and Clanning Sts.; \$8,000; own., J. Seddon.

St. Paul, Minn.—Fourth St., bet. Sibley and Waconda Sts., interior alterations to three-story brick store; \$5,000; own., D. Schuette; bld., T. Reardon.

Washington, D. C.—Indiana Ave., near 1st St., brick addition, 60' x 90', to Galt & Co.'s flour house; con., Jas. L. Parsons.

APARTMENT-HOUSES.

Boston, Mass.—Commonwealth Ave., No. 29, Ward 11, ten-story brick apart., flat roof, 32' x 104' 6"; own., W. H. H. Newman, 543 Boylston St.; arch., J. P. Putnam.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,
BEAMS, CHANNELS, ANGLES, ZEEs, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.

Round, Square and Flat Bars
of all sizes.

SPECIALTIES:

PHENIX COLUMNS AND UPSET EYE-BARS
Of all sizes, in Iron or Steel.

ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.

AGENTS:

New York: EDWARD CORNING & CO., 29 Broadway.

Chicago: A. C. STITES, 931 Rookery Building.

Boston: EDWARD CORNING & CO., 70 Kilby Street.

PASSAIC ROLLING MILL CO.,
PATERSON, N. J.

STEEL BEAMS 4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

NEW YORK OFFICE, - - 45 BROADWAY

J. S. THORN CO.

Architectural Sheet-Metal Works.

Metal Building Trimmings, Ventilating Skylights
Metallic Roofing Tiles, Building Specialties, Builders'
Light Iron Work of every description.

Nos. 1225 to 1229 Callowhill Street,
PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

Chicago, Ill. — David Thomas, 2 two-st'y frame flats, 5-7 Clarkson Ave.; \$5,000.
August Volkman, three-st'y brick flats, 1466 Congress St.; \$3,500.
Fred. Gumst, three-st'y brick flats, 190 Hastings St.; \$3,500.
E. Fletcher Ingalls, four-st'y brick flats, 514-518 West Van Buren St.; \$30,000.
Mary E. Ward, 3 two-st'y brick flats, 6435-6437 Sherman St.; \$5,000.
J. S. Colby, two-st'y brick flats, 897 Walnut St.; \$4,000.
John Lamb, two-st'y brick flats, 1019 Park Ave.; \$4,000.
Morris Barbe, three-st'y brick flats, 2342-2344 Wentworth Ave.; \$10,000.
M. Fry, three-st'y brick flats, 1630-1632 Briar Pl.; \$16,000.
J. C. Combs, two-st'y brick flats, 6328 Marshfield Ave.; \$3,000.
William Blondow, three-st'y brick flats, 1738 Buckingham Pl.; \$7,500.
C. H. Wedgirth, three-st'y brick flats, 1632 Monroe St.; \$9,000.
R. Rudolph, three-st'y brick flats, 45 Crystal St.; \$3,000.
A. Timmreck, three-st'y brick flats, 344 West 13th St.; \$4,000.
E. Jungknecht, two-st'y brick flats, 557 Thomas St.; \$3,000.
Frank Larson, two-st'y brick flats, 5957 Aberdeen St.; \$3,200.
C. Bublitz, two-st'y brick flats, 2096 Adams St.; \$3,000.
W. G. Fress, four-st'y brick flats, 4352-4358 Washburn Ave.; \$74,000.
R. J. Walsh, four-st'y brick flats, 3520 Prairie Ave.; \$8,000.
R. J. Walsh, four-st'y brick flats, 3603 Indiana Ave.; \$5,000.
A. O. Anderson, three-st'y brick flats, 672 Maplewood Ave.; \$4,000.
George Baxter, two-st'y brick flats, 6750 Langley Ave.; \$3,000.
B. Cronin, two-st'y brick flats, 6621 Langley Ave.; \$3,000.
John McMahon, two-st'y brick flats, 322 Loomis St.; \$4,000.
Rieser & Flinn, three-st'y brick flats, 3815-3817 Vernon Ave.; \$20,000.
H. H. Larson, 2 two-st'y brick flats, 661-663 Cornelia St.; \$9,000.
Andrew Wallenta, three-st'y brick flats, 1425 Harvard St.; \$4,500.
Mary S. Priest, two-st'y brick flats, 2063 Washington Boulevard; \$3,500.
John Birney, 2 two-st'y brick flats, 1398 1409 Park Ave.; \$6,000.
S. A. Algel, three-st'y brick flats, 505 Belden Ave.; \$5,500.
Mrs. Jennie Blackman, two-st'y brick flats, 6314 Sangamon St.; \$3,000.
J. J. McCauley, four-st'y brick flats, 869-879 West Jackson St.; \$5,000.
J. J. McCauley, four-st'y brick flats, 194 South Leavitt St.; \$15,000.
A. Engle, three-st'y brick flats, 977-979 Lawndale Ave.; \$7,000.
John Vlazny, two-st'y brick flats, 2 Earle St.; \$4,000.
M. Carroll, three-st'y brick flats, 355 Garfield Ave.; \$5,000.
James Nolan, three-st'y brick flats, 3143 Wallace St.; \$5,000.
Ira W. Allen, 4 two-st'y brick flats, 627-633 Sixtieth St.; \$20,000.
New York, N. Y. — St. Nicholas Ave., w s, 29 s 120th St., five-st'y brick flat, 29 x 51 x 66, 60' high, flat

Iron-Work.

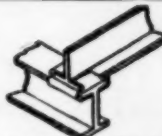
JACKSON ARCHITECTURAL IRON WORKS
ESTABLISHED 1840.

IRON

Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams, Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze. Designs and Estimates of Cost Furnished for Work in any Department.

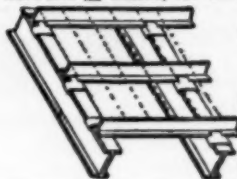
Foundry and Shops, East 28th and East 29th Sts.

Office, 315 East 28th St., New York.



H. A. Streeter's Patent Clip

ARCHITECTS, OWNERS, CONTRACTORS, and all others interested in Iron or Steel construction will please note that I have PATENTED A STEEL CLIP for connecting Angle or Tee bars to I Beams, etc., which reduces the expense one-half, and does away with the old method of Drilling and Bolting, which is a great saving of Time, besides allowing an easy method of adjusting Tee bars to any desired width of Tile. (This method is now adopted by our principal contractors). Clips furnished ready to apply by sending the Sections and weight of Tee Bars and I Beams, for which connections are wanted.



FOR PRICES AND FURTHER INFORMATION

APPLY TO **STREETER**
Globe Iron Works,
35-41 E. INDIANA STREET,
CHICAGO, - - - ILL.



ORNAMENTAL
IRON
WORK

PRISMATIC
LIGHT
WORK



BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

tin roof; \$15,000; own. Oscar Phillips, 615 East 139th St.; arch., A. B. Ogden & Son, 1031 Madison Ave.
Fifty-second St., n w cor. 21 Ave., five-st'y brick flat, 25' x 96', 59' high, flat tin roof; \$30,000; own. Weil & Mayer, 227 East 60th St.; arch., Schneider & Herter, 4th Ave., 8th St. to 9th St.
Columbus Ave., n w cor. 84th St., 2 five-st'y brick flats, 50' x 52', 90' x 96', 60' high, flat tin roof; \$155,000; own. John Casey, 116 West 91st St.; arch., Neville & Bagge, 217 West 125th St.
One Hundred and Second St., n s, 47' e Lexington Ave., 2 five-st'y brick flats, 27' x 90', 60' high, flat tin roof; \$25,000; own. Lewis L. Bach, 66 East 66th St.; arch., John H. Kimbel, 152 East 103d St.
One Hundred and Twenty-fourth St., s s, 100' e 3d Ave., 2 five-st'y brick flats, 27' x 89', 59' high, flat tin roof; \$20,000; own. August Ruff, 78 East 4th St.; arch., Kurtzer & Rohl, 3d Ave. and 7th St.
One Hundred and Sixty-third St., s s, 99' w 3d Ave., four-st'y brick flat, 28' x 63', 50' high, flat tin roof; \$16,000; own. Michael J. Garvin, 832 Eagle Ave.; arch., M. Garvin, 2311 Third Ave.

CHURCHES.

Audenreid, Pa. — Plans have been prepared by W. D. Hill, architect, Pottsville, Pa., for a church to be erected here.
Boston, Mass. — Buena Vista St., cor. Fenno St., Ward 21, two-st'y brick church, pitch roof, 154' x 65' 6"; own. First Universalist Society; bld., Woodbury & Leighton.
Brooklyn, N. Y. — Washington Ave., e s, 220' s Willoughby Ave., one-st'y and gallery brick church, slate roof, 61' x 104'; \$36,000; own. St. Luke's Lutheran Church, on premises; arch., J. W. Walter, Tarrytown, N. Y.
Burlington, Vt. — Brick and stone church; \$12,000; arch., S. P. Saxe & Son.
Chicago, Ill. — Christ's Episcopal Church, brick church, 65th St. and Woodlawn Ave.; \$8,000.
The Longwood M. E. Church, frame church, 9354-9356 Spruce St.; \$3,500.
Loomis St. M. E. Church, frame church, 68th and Loomis Sts.; \$4,000.
Conshohocken, Pa. — One-st'y stone Gulf Christian Church, slate roof; the old church will be remodelled for a Sunday-school; the whole to cost about \$10,000; arch., Charles M. Burns, Jr., 717 Walnut St., Philadelphia, Pa.
Galveston, Tex. — Thirty-sixth St. and Ave. L, Grace

BUILDING INTELLIGENCE.

(Churches Continued.)

Episcopal church, granite walls; \$27,000; arch., W. Playton & Co.; bld., Thos. Darragh.
Lawiston, Me. — Two-st'y brick and stone church, pitch roof; \$75,000; own. St. Peter's R. C. Society; arch., J. L. Coburn & Son, 172 Lisbon St.; contract not let.
Milwaukee, Wis. — Scott St. and Fourth Ave., Norwegian Church and parsonage; \$15,000; arch., H. C. Koch & Co.
Overbrook, Pa. — Stone, Roman Catholic, Our Lady of Lourdes Church, slate roof, with three towers; estimates are being made; arch., Thomas P. Lonsdale, Manhattan Life Building, s e cor. Walnut and 4th Sts., Philadelphia.
Philadelphia, Pa. — Lansdowne Ave. and Fifty-fourth St., West Park Presbyterian Church, Avondale stone with Indiana limestone trimmings, octagonal tower, 100' high; arch., Chas. W. Bolton, 1510 Chestnut St.
Providence, R. I. — Smith St., s w cor. Ruggles St., one-and-one-half-st'y brick church; own., Primitive Methodist Church; arch., Geo. W. Cady & Co.; bld., John T. Machon.
Quarryville, Pa. — Plans are being prepared for the St. Catherine Roman Catholic Church to be built of blue limestone; estimated cost is \$5,000; arch., J. H. Warner, Lancaster, Pa.
Rock Island, Ill. — Presbyterian Church; \$20,000; arch., H. Curtis Hoffman, Chicago, Ill.
St. Paul, Minn. — Portland Ave., St. Clemens Episcopal Church; \$25,000; arch., Cass Gilbert.
CLUB-HOUSES.
New Orleans, La. — Plans are being made for a two-st'y annex, containing gymnasium and natatorium, electricity and steam, 60' x 200'; \$25,000; own., Olympic Club; arch., DePass & Behan, 36 Carondelet St.
EDUCATIONAL.
Baltimore, Md. — The plans of Baldwin & Pennington, arch., have been accepted for the new City College Bldg., to be of brick, stone and terra-cotta and to cost about \$150,000.
Chester, Pa. — The contract for the erection of new Central Grammar School has been awarded to Joel Lane for \$46,739; to be built of blue marble; arch., Edwin F. Bertolett, Philadelphia.
Chicago, Ill. — Board of Education, three-st'y brick school, 1007 Seminary Ave.; \$50,000.

(Educational Continued.)

Detroit, Mich.—Board of Education, two-sty brick school, 321 Seward Ave.; \$30,000.
Board of Education, two-sty brick school, 425 Van Dyke Ave.; \$30,000.
Board of Education, two-sty brick school, 601 Alexandrine Ave.; \$30,000.
Board of Education, two-sty brick school, 552 Military Ave.; \$30,000.
Board of Education, two-sty brick school, 105 Seventeenth St.; \$20,000.

Hartford, Conn.—New Park Ave., permit granted to build a four-sty brick college, 44 x 113; own., Missionaries of La Salette.

Lewiston, Me.—Three-sty brick and stone college building, pitch roof; \$20,000; own., Bates College; arch., Elmer I. Thomas, Auburn, Me.; contract not let.

Minersville, Pa.—Brick school-house, stone trimmings; estimated cost about \$12,500; con., Daniel McGure; arch., Frank X. Reilly, Pottsville, Pa.

Philadelphia, Pa.—Twentieth Ward, work will begin immediately on a school; arch., Bartberger & East, Westinghouse Bldg., 9th St. and Penn Ave.
Baltimore Ave. and Forty-sixth St., three-sty public school, 36 x 100; con., Jacob Wenzelberger, 1220 Filbert St.
Porter St., s e cor. 5th St., three-sty stone and brick public school, 37 x 123; con., Jacob Wenzelberger, 1220 Filbert St.

Rutland, Vt.—Two-sty frame, brick and stone school; \$10,000; own., Town of Rutland; arch., Stickney & Austin, Lowell, Mass.

Worcester, Mass.—Upstate St., two-sty brick school; own., City of Worcester; con., Hall & Thompson; arch., Fuller & Delano.
Abbott St., two-sty brick school; own., City of Worcester; con., Benj. C. Jacques; arch., Forbush & Hathaway, Boston.

FACTORIES.

Pittsburgh, Pa.—Thirteenth and Etna Sts., 100 x 100 steel mill building; \$7,000; own., Zug & Co.; contract not let.

HOSPITALS.

Philadelphia, Pa.—Catharine St., s e cor. Broad St., two-sty brick hospital, 50 x 50, for the Howard Hospital; about \$20,000; con., William Rea & Son, 1815 Francis St.

HOTELS.

Brooklyn, N. Y.—Coney Island Ave., s e cor. Ave. C, two-sty and attic frame roadhouse and dwell., shingle roof, 36 x 42; \$5,000; own. and bid., Jacob Bassett, 10-2 Myrtle Ave.; arch., Th. Engelhardt, 905 Broadway.

Chestnut Hill, Pa.—Germantown Ave., n s above Hartwell Ave., three-sty and mansard roof, brick and stone hotel, 55 x 57, with back building, 16 x 20; con., Wm. J. Patterson, Southampton Ave.

Crookston, Minn.—August Wallentine, St. Paul, Minn., has been given the contract for the new hotel; \$21,000.

Pine Bluff, Ark.—Hotel, pressed brick and stone, 60 x 154; \$13,000; own., Sol. Miller; arch., Gible & Breysacher, Little Rock, Ark.

HOUSES.

Amherst, Mass.—Two-and-one-half-sty frame dwell., hip roof, 30 x 48; \$4,500; own., Mrs. Baxter Marsh; arch., Chas. B. Park, Boston, Mass.
Two-and-one-half-sty dwell., gambrel roof, 40 x 75; \$9,000; own., Prof. Clarence D. Warner; arch., Chas. B. Park, Boston, Mass.

Andover, Mass.—Chestnut St., two-and-one-half-sty frame dwell., hip roof, 28 x 43; own., Wm. H. Higgins; arch., W. H. Taylor and H. W. Colby, Boston; contract not let.

Baltimore, Md.—Three-sty brick dwell., e s Wolf St., bet. Pratt and Gough Sts.; own., F. G. Hess.
Four two-sty brick buildings, n s Federal St., e s Aquith St., and four two-sty brick buildings, s w Point Lane, n Federal St.; own., Jas. W. Sindall, 1210 Homewood Ave.

Three-sty brick dwell., w s Linden Ave., n North Ave.; own., Francis Horn, 1344 Division St.
Seventeen two-sty brick dwell., n s Ridgewood Ave., e Payson St.; own., Boston Fear, cor. 2d St. and w North Ave.

Four two-sty brick dwell., Oak St., and five two-sty brick dwell., 24th St.; own., J. Frank Griffin, 2039 Wilkens Ave.

One three-sty and 4 two-sty brick dwell., w s Cedar Ave., bet. 2d and 3d Aves.; own., George Bunnecke, 104 s Patterson Park Ave.

Three three-sty brick dwell., n s Huntingdon Ave., beg. n e cor. Maryland Ave.; own., J. K. Hubbard, 1635 North Gilmer St.

Four three-sty brick dwell., e s Mt. Royal Ave., bet. Mosher and McMechin Sts.; own., John A. Evans, 1102 North Carey St.

Six two-sty brick dwell., Catherine St., n 28th St.; own., Lemuel German.

Twenty-one two-sty brick dwell., s s Preston St., e Chester St., 4 two-sty brick dwell., e s Chester St., n Mura St., and 19 two-sty brick dwell., n s Mura St., e Chester St.; own., Guy L. Talbot, 1438 North Broadway.

Two three-sty brick stores and dwell., e s Gay St., bet. High and Exeter Sts.; own., J. W. S. Brady, 1121 Madison Ave.

Boston, Mass.—Ward 23, two-and-one-half-sty frame dwell., pitch roof, 37 x 52; \$7,000; own., O. J. Oliver; arch., Walter J. Paine; contract let.

Howland St., two-and-one-half-sty frame dwell., hip roof, 30 x 54; \$10,000; own., E. S. Johnston; arch., T. E. Sheehan, 1 Beacon St.; contract not let.

Gardner St., near Chester St., Ward 25, three-sty frame dwell., hip roof, 32 x 32; own., F. C. Pope; bid., C. E. Woodman.

East Third St., Ward 14, three-sty frame dwell., flat roof, 27 9/10 x 50 1/10; own., John Carter; bid., W. Eadie.

West Park St., near Millet St., Ward 21, 3 frame dwell., 25 x 49; own. and bid., E. Rockwell.

Ashmont St., opp. Albion St., Ward 23, three-sty frame dwell., hip roof, 32 x 40; own., Mrs. A. O. Jacques; bid., Alexander Nelson.

Crawford St., near Harold St., Ward 21, frame dwell., 38 3/4 x 40; own., A. F. Arnold; bid., Bell & McLeod.

Calumet St., near Hillside St., Ward 22, three-sty frame dwell., pitch roof, 25 x 54 8/9; own., Michael Cronan; bid., Daniel Lane.

Chelsea and Morris Sts., Ward 1, 8 frame dwell., each 20 x 46; own., C. F. Collins.

(Houses Continued.)

Harold St., near Abbottsford St., Ward 21, three-sty frame dwell., hip roof, 28 x 38; own., G. P. Ridgway; bid., Vaugh & Silver.

Harold St., near Ruthven St., Ward 21, three-sty frame dwell., gambrel roof, 28 x 38; own., G. P. Ridgway; bid., Vaugh & Silver.

Abbottsford St., near Harold St., three-sty frame dwell., gambrel roof, 28 x 38; own., G. P. Ridgway; bid., Vaugh & Silver.

Bellerue St., cor. Martin St., Ward 23, frame dwell., 28 8/9 x 37 6/9; own., F. E. Davis; bid., Rolfe & Duran.

Corbett St., near Norfolk St., Ward 24, frame dwell., 22 6/9 x 28; own., D. H. Collins, 40 Oliver St.

Shawmut Ave., No. 770, Ward 19, frame dwell., 22 6/9 x 48; own., I. Rosenkranz, 2301 Washington St.

Main St., Nos. 516-520, Ward 4, 3 frame dwell., and stores, 30 9/10 x 61, 30 6/9 x 54, 30 6/9 x 48; own., H. H. Currell, 516 Main St., Charlestown, Mass.

Auckland St., Ward 24, frame dwell., 24 x 47; own., Mary C. Towle; bid., W. Riley.

Howland St., near Humboldt Ave., Ward 21, frame dwell., 38 2/2 x 39 4/4; own., Mrs. G. E. Wainwright; bids., Morrison & Rackling.

Highland Terrace, off Highland St., frame dwell., 23 x 41; own. and bid., J. H. Mulvey.

Saratoga St., No. 728, Ward 1, frame dwell., 25 6/9 x 41; own., Catharine Plummer; bid., H. S. Plummer.

Washington St., No. 635, Ward 24, frame dwell., 22 x 52; own. and bid., James F. Smith.

Tilston Ave., near Blue Hill Ave., Ward 24, frame dwell., 26 x 37; own., M. J. Linsky; bid., M. McLaughlin.

Beach St., cor. Newbury St., Ward 23, 2 frame dwell., 24 x 42 6/6; own., W. H. Devine, 595 East Broadway, S. B. and A. E. Heutz, 12 Worley St., W. R.; bid., F. M. Brown.

Whiting St., near Moreland St., Ward 21, 2 frame dwell., 14 x 55; own., Elizabeth Keeler; bid., J. A. Vickery & Son, 17 Old St.

Elery St., No. 50, Ward 15, three-sty framed dwell., 20 x 40, flat roof; own. and bid., J. B. Sias, 48 Elery St.

Boylston Ave., No. 1214, Ward 23, frame dwell.; 21 x 40; own., S. B. Thompson; bid., Dugald McDonald, 10 Rockview St.

Thorndike St., cor. Reed St., 4 three-sty brick blocks, flat roofs, 29 x 40; own., H. H. Savage, et al.; s 3 Endicott St.; bid., T. F. Kearney.

Cabot St., No. 69, Ward 19, three-sty brick dwell., flat roof, 20 x 45; own., Martin Millmore, 67 Cabot St.; bid., M. J. Millmore.

Greenkeys St., near Magnolia St., Ward 21, 2 frame dwell., each 22 x 43 6/6; own. and bid., D. Jamieson, 76 Waverly St.

Letterpine Terrace, opp. Howard Ave., Ward 20, frame dwell., 23 x 41; own. and bid., J. B. Mulvey.

Eliot St., near Holbrook St., Ward 23, frame dwell., 32 x 40; own., R. S. Barrows, 227 Washington St.; bid., M. A. Blanchard.

Franklin Park Terrace, near Peter Parley Road, Ward 23, frame dwell., 38 x 52; own., W. Crosby; bid., M. A. Blanchard, 65 Green St., J. P.

Brooklyn, N. Y.—Sixth Ave., n e cor. 2d St., four-sty brick dwell., tin roof, 21 6/9 x 75; \$9,500; own., Louis Bonert, on premises; arch., Robt. Dixon, 219 Montague St.

Sixty-seventh St., 5 two-sty and basement brick dwell., tin roofs, 29 x 40 x 44; \$4,000 each; own., Chas. A. Erickson, 78th St., bet. 3d and 4th Aves.; arch., O. Anderson, 78th St., cor. 5th Ave.

Douglas St., s s, 200 x 50 Classon Ave., four-sty brick dwell., tin roof, 25 x 50; \$7,000; own., Catherine Richard, 982 Dean St.; bid. and arch., James Richard, 982 Dean St.

Sixth Ave., e s, 21 x 2d St., 4 four-sty brick dwell., tin roofs, 19 6/9 x 62; \$6,500 each; own., Louis Bonert, on premises; arch., Robt. Dixon, 219 Montague St.

North Eighth St., n s, 100 x Berry St., four-sty brick dwell., tin roof, 25 x 47; \$8,000; own., Cornelia Lob, on premises; bid., Frank Herte, 57 Harrison St.

Glen St., n s, 170 6/9 e Crescent St., 6 two-sty frame dwell., tin roofs, 17 4/4 x 43; \$1,800 each; own., H. N. Acker, Crescent St., near Fulton St.; arch., Chas. Infanger, Atlantic and Georgia Aves.

Marion St., n s, 375 e Reid Ave., three-sty frame dwell., tin roof, 25 x 57; \$1,500; own., Fredericka Marschick, 133 Marion St.; arch., Chas. Infanger, Georgia and Atlantic Aves.

Montauk Ave., e s, 480 s New Lots Road, two-sty, basement and attic frame dwell., tin roof, 20 x 45; \$3,000; own., E. Collins, Montauk Ave.; arch., A. McLean, 134 Ridgewood Ave.; bid., W. H. Bentley, 740 Cleveland St.

Eighty-second St., n w cor. 22d Ave., two-sty and attic frame dwell., shingle roof, 30 2/2 x 37 2/2; \$5,000; own., Mrs. L. J. Roberts, 83d St. and 22d Ave.; arch., J. H. Pettit, 188 Kamen St.; bid., W. J. Clarke, Bensonhurst, L. I.

Avenue B, s s, 50 w East 17th St., two-sty and attic frame dwell., tin and shingle roof, 28 6/9 x 46 3/9; \$6,000; own., E. S. Keeler, 674 Madison St.

Camden, N. J.—Lewis St., cor. Ross St., 2 two-sty brick dwell.; bid., Moore & Simpson, Market and 3d Sts.

Charleston, S. C.—Legare St., three-sty dwell.; \$18,000; own., Heyward; bid., I. D. Murphy.

Chicago, Ill.—Mrs. F. F. Hill, two-sty frame dwell., 3714 Sheridan Pl.; \$3,000.

William A. Doyle, two-sty brick dwell., 1417 Washington Boulevard; \$7,000.

John Ritchie, two-sty brick dwell., 10632 Clark St.; \$3,000.

G. W. Meeker, three-sty brick dwell., 135 Astor St.; \$13,000.

Garner Bros., 5 two-sty brick dwell., 837-845 Fifty-fourth St.; \$20,000.

E. Mackey, 3 two-sty brick dwell., 7214-7218 Lafayette Ave.; \$10,000.

Robert Johns, 4 two-sty brick dwell., 6444-6450 Greenwood Ave.; \$11,000.

W. Frink, 2 two-sty brick dwell., 3640-3646 Champlain Ave.; \$6,000.

W. Frink, 2 two-sty brick dwell., 3641 South Leavitt St.; \$6,000.

Council Bluffs, Ia.—Seventh Ave., No. 894, brick dwell.; \$7,000; own., John Galvin; arch., Woodward Bros.; bid., J. & O. P. Wickham.

Crawford, N. J.—Two-sty and attic frame dwell., 30 x 40; about \$4,500; own., Stephen D. Day; arch., Edward Chestersmith, 45 Exchange Pl., New York City.

Detroit, Mich.—Geo. Kennedy, three-sty brick dwell., 277 Commonwealth Ave.; \$4,500.

(Houses Continued.)

A. J. Dupuis, frame dwell., 243 Field Ave.; \$4,000.
F. T. Houk, 4 frame dwell., 140-148 Artillery Ave.; \$6,000.

Thos. Kennedy, two-sty brick dwell., 309 Commonwealth Ave.; \$4,600; also two-sty frame dwell., 73 Chope Ave.; \$3,000.

Rogers & McFarland, 2 brick dwell., 1696-1700 Jefferson Ave.; \$3,500; also frame dwell., 131 Elmwood Ave.; \$2,000.

McGregor Bros. & Co., 2 frame dwell., 80-98 Delaware Ave.; \$6,500.

H. W. Raper, frame dwell., 238 Putnam Ave.; \$3,000.

Geo. Kennedy, two-sty frame dwell., 93 Chope Place; \$3,000.

Vinton & Co., three-sty brick dwell., 842 Jefferson Ave.; \$20,000.

August O'Dell, 3 frame dwell., 376-380 Bellerue Ave.; \$3,400.

F. X. Strale, frame dwell., 293 Hecla Ave.; \$3,100.

Frank Wolchowski, 2 frame dwell., 1141-1143 Twenty-fourth St.; \$3,800.

Frankford, Pa.—Franklin St., n w s, s w Rtas. St., 2 two-sty stone and brick dwell.; own., William H. Zeland, 42 Penn St.

Germantown, Pa.—Wisahickon Ave., n w cor. Queen Lane, 2 three-sty brick and stone dwell.; con., George Hearst, 427 West School Lane.

Hartford, Conn.—Highland St., frame dwell.; \$9,500; own., Benj. Loveland; arch., Willis E. Becker; contract not let.

Prospect Ave., frame and stone dwell.; \$7,000; own., Thos. B. Chapman; arch., Willis E. Becker; contract not let.

Lincoln St., No. 49, frame dwell., 26 x 48; own., Frank S. O'Marra.

Park St., frame dwell., 28 x 47; own., H. A. Blakesh.

Smith St., No. 42, frame dwell., 24 x 36; own., Wm. J. Bray.

Putnam St., frame dwell., 30 x 50; own., Thos. Hamilton.

Kansas City, Mo.—Jefferson St., Nos. 1810-12, brick dwell.; \$7,000; own., J. G. Groves.

Pury Ave., near Prospect Ave., 5 brick dwell.; \$16,500; own., C. A. Mirrill.

Knoxville, Tenn.—\$25,000 dwell., for Rudolph Knapp; arch., Chamberlin & Co.

\$25,000 frame dwell., for Daniel Briscoe; arch., Baumann Bros.

Mahanoy City, Pa.—Plans have been prepared by architect, W. D. Hill, Pottsville, Pa., of a residence to be erected here.

Newtonville, Mass.—Elm Road, two-and-one-half-sty frame dwell., pitch roof, 32 x 37; \$5,000; own., Chas. M. Howell; bid., J. C. Carmine; arch., Francis R. Allen, Boston.

New York, N. Y.—West End Ave., s w cor. 97th St., 3 four-sty brick dwell., flat tin roof, 25 x 33 x 34 4/5 high; \$45,000; own., Theodore A. Squier, 249 West 99th St.; arch., Clarence True, 102 West 18th St.

One Hundred and Forty-ninth St., s s, 200 e Boulevard, 12 four-sty brick dwell., flat tin roofs, 16 x 50, 46 high; \$126,000; own., Henry R. C. Wasson, Westchester, N. Y.; arch., Llenan & Nash, 64 Cedar St.

One Hundred and Sixty-seventh St., s w cor. Forest Ave., three-sty brick and frame dwell., flat tin roof, 19 x 60, 33 high; \$4,500; own., Paul G. Decker, 875 Cauldwell Ave.; arch., John W. Decker, 41 Fourth Ave.

Jansen Ave., w s, 250 n Terrace View Ave., three-sty stone and frame dwell., peaked slate roof, 22 x 53, 37 high; \$4,500; own., George Schuck, 454 West 151st St.; arch., John Brandt, Kingsbridge, N. Y.

Jerome Ave., s s, 125 w Minerva Pl., three-sty stone and frame dwell., peak shingle roof, 21 x 48, 34 high; \$3,800; own., Lulu Coakley, Broadway and 23d St.; arch., G. H. Budlong, White Plains, N. Y.

One Hundred and Sixty-first St., s s, 139 w Union Ave., three-sty brick and frame dwell., flat tin roof, 19 x 59, 35 high; \$5,500; own., Jacob Uhl, 1008 Forest Ave.; arch., W. C. Dickerson, 149th St. and 3d Ave.

One Hundred and Fifty-seventh St., s e cor. Amsterdam Ave., three-sty brick dwell., flat tin roof, 25 x 96, 25 high; \$7,000; own., W. C. Schmidt, 699 Sixth Ave.; arch., Cleverdon & Putzell, 13 Astor Pl.

St. Nicholas Ave., w s, 44 n 142d St., 8 four-sty brick dwell., 17 x 20, 50 x 53, 47 high, flat and mansard tin and tile roofs; \$112,000; own., Jacob L. Kinner, 345 Amsterdam Ave.; arch., Clarence True, 102 West 81st St.

Kirkade Ave., s e cor. Welsley St., three-sty stone and frame dwell., 30 x 55, 34 high, peak shingle roof; \$7,000; own., Wm. W. Edwards, Tiebout Ave. and Kings Bridge Road; arch., H. S. Baker, 492 East 138th St.

Seventy-eighth St., s e cor. West End Ave., 11 four-sty brick dwell., 16, 17, 18, 20, 21, 53, 60 high, peak and flat tin and tile roof; \$175,000; own., Armintha Merritt, 39 Boulevard; arch., W. J. Merritt, 339 Boulevard.

Sixty-eighth St., s s, 44 e Avenue A, three-sty brick dwell., 37 x 145, 30 high, flat tar and gravel roof; \$4,000; own., James H. Jones, 45 William St.; arch., Christopher Peterson, 1310 Second Ave.

Overbrook, Pa.—Drexel Road, bet. 59th St. and Upland Way, three-sty brick and stone dwell. with back building; about \$15,000; own., Mrs. John Dornan; arch. and bid., Wendell & Smith.

Drexel Road, bet. 59th St. and Upland Way, three-sty brick dwell. with back building; own., David Pearson; arch. and bid., Wendell & Smith.

Sherwood Road, w Lancaster Ave., three-sty stone and brick dwell. with back building; own., Mrs. F. D. Sweeney; arch. and bid., Wendell & Smith.

Ground has been broken for 2 dwell.; own., Mrs. F. D. Sweeney and Davis Pearson; arch., Wendell & Smith.

Philadelphia, Pa.—Cherry St., s s, e New St., two-sty brick dwell. with frame back building; con., Thomas Rush, 1855 Frankford Ave.

Second St., w s, s Fishar Ave., three-sty brick dwell. with back building; con., Geo. R. Montieth, 3065 Lawrence St.

Passyunk Ave., s s, e 15th St., two-sty brick dwell. with back building; con., H. Moody, 1749 South 16th St.

Westmoreland St., s s, e 20th St., 19 two-sty brick and stone dwell. with back buildings; con., D. R. Evans, 3343 Ueber St.

Crothers Ave., n w s, 100 n e 88th St., two-sty frame dwell. with stone foundation; con., Robert M. Smith, 707 Walnut St.

(Houses Continued.)

Gelas St., w s, above Dauphin St., two-sty brick dwell. with back building; con., Robert Beatty & Bro., 221 Townsend St.
Phillips Ave., bet. Gibson and Suffolk Aves., 2 two-sty brick dwells. with back buildings, and frame cow and chicken house; con., Joseph W. Anderson, Eastwick Ave. and Island Road.
Stiles St., s s, e Church St., 4 two-sty brick and frame dwells. with back buildings own., John Miller, 3919 North 6th St.

Berks St., n s, e 31st St., 6 three-sty brick dwells., and 2 stores and dwells. with back buildings; own., Joseph M. Serrill, Wyncote, Pa.
Darwin St., e s, n Indiana Ave., 7 two-sty brick and stone dwells.; con., Woelfel & Schmunk, 614 Canby St.

East Jefferson St., s s, 1507 e Selick St., brick dwell.; own., Walter Rowland, 4114 Manayunk Ave.
Maacher St., No. 2232, brick dwell.; own., J. E. Matlock, 2322 East Cumberland St.

Monmouth St., n e cor. Trenton Ave. and Monmouth St., n s, 21 brownstone and brick dwells.; own., C. C. Moore, 2001 North Broad St.
Bryan St., n Mt. Pleasant Ave., 2 two-sty brick dwells.; own., Mrs. C. Melcher, 129 Horter St.

Chelton Ave., w Morris St., 2 two-sty stone dwells., mansard roofs; about \$5,000 each; con., D. P. Brown, 410 West Chelton Ave.
Stanh St., e Germantown Ave., 4 two-sty brick dwells., bld., Bernard Devine, 3338 North 15th St.

South Thirty-third St., No. 1240, two-sty brick dwell.; own., James C. Dumban, 2427 Naudain St.
William St., e Thompson St., 2 two-sty brick dwells.; own., M. J. Boyce; con., P. Boyce, 2725 William St.

Wyoming St., n e cor. Broad St., three-sty brick dwell. with back building; own., Henry Leib; con., Albert Walker, 3563 Germantown Ave.
Emerald St., n Clearfield St., 2 two-sty brick dwells. with back buildings; own., John and James Bilk, 1913 East Allegheny Ave.

Fifty-second St., e s, n Hatfield St., 9 two-sty brick dwells.; con., F. M. Malcolm, 701 Hale Building.
Forty-fifth St., n s, above Spruce St., 6 three-sty brick dwells.; con., Gibson & Co., 2304 Federal St.

Lenox Ave., n s, bet. 15th and Broad Sts., 15 two-sty brick dwells.; con., W. A. Margerem, 924 Mt. Vernon St.

Sherswood Road, bet. Lancaster Ave. and 64th St., three-sty brick and stone dwell. with back building; own. and bld., Wendell & Smith, Overbrook.
Fairhill St., n Pike St., two-sty brick dwell.; own., Julia Marsch; bld., Jacob Marsch, Rising Sun Lane and 5th St.

Fifteenth St., w s, s Snyder Ave., 12 three-sty brick dwells. with back buildings; own., Andrew Hughes, 2128 Ellsworth St.
Rees St., w s, s Luzerne St., two-sty brick dwell. with back building; own. and bld., Jacob Marsch, Rising Sun Lane and 5th St.

Snyder Ave., n s, e 15th St., two-sty brick dwell. with back building; con., Hugh Moody, 1749 South 16th St.
Forty-ninth St., w s, s Westminster Ave., 2 two-sty brick dwells.; own., M. Fillmore Beckley, 4904 Westminster Ave.

Tenth St., w s, n Ritten St., 2 two-sty brick dwells. with back buildings; own., Hugh McNelle, 1944 Passyunk Ave.
Mountain St., n e cor. 19th St., 2 two-sty brick and stone dwells. with back buildings; con., James J. Brennan, 1623 South 17th St.

Willow Grove Ave., brick dwell.; about \$7,000; own., William Eberly; arch., Tritton & Lockington, 502 Walnut St.
Pittsburgh, Pa.—*Centre and Morewood Sts.*, brick dwell.; \$8,000; own., T. M. Ulan; bld., Gulden & Crick.

Rebecca St., two-sty brick dwell.; \$8,000; own., J. R. Stewart; arch. and bld., W. Bauersmith.
Providence, R. I.—*Ridge St.*, two-and-one-half-sty frame dwell.; \$3,500; own., M. L. & G. A. Stone; bld., P. McDonough.

Pearl St., two-and-one-half-sty frame dwell.; \$4,000; own., Charles E. Fuller and wife; arch., Anthony Bros.
Wendell St., two-and-one-half-sty frame dwell.; \$3,700; own., Lovegrove & Burlingame; bld., Freaby & Myrick.

Emgrove Ave., cor. Angell St., two-and-one-half-sty frame dwell.; own., Joseph Banigan; arch., E. I. Nickerson; bld., Joseph Gilman & Co.
Potters Ave., No. 265, two-and-one-half-sty frame dwell.; \$4,000; own., E. M. Harris, M. D.; bld., F. I. Barrett.

Butler Ave., two-sty frame dwell.; \$10,000; own., Wilfred H. Munro; arch., Chas. F. Chase; bld., James P. Millard.
Wendell St., two-and-one-half-sty frame dwell.; \$3,700; own., Clarence F. Burgess; bld., Hopkins & Sweet.

Reading, Pa.—*Centre Ave.*, bet. Olney and Greenwich Sts., stone and brick dwell.; own., Edwin Boone, Cashier of the National Union Bank; con., W. C. Kutz.
South Sixth St., two-sty brick dwell.; own., Edmund James.

Walnut St., 7 two-sty brick dwells.; own., West Reading Bldg. Assn.
Red Bank, N. J.—Two-sty and attic frame dwell. with basement, 31' x 48'; own., Mrs. Peterson; arch., Palliser, Palliser & Co., 24 East 42d St., New York City.

Schuylkill Haven, Pa.—W. D. Hill, architect, Potville, Pa., has prepared plans for a house.
Seranton, Pa.—*Jefferson Ave.*, stone dwell.; \$10,000; own., Judge Hand; arch., L. C. Holden, New York City; bld., Conrad Schroeder.

Springfield, O.—*North Limestone St.*, brick dwell.; \$18,000; own., Chandler Robbins; arch., C. Criegler.
Two two-sty dwells., each 22' x 48', s s Tower Grove, bet. McKee and Blaine Sts., \$4,000; own., John Newberry.

Washington, D. C.—*North Carolina Ave.*, Nos. 310-312, s s, 2 two-sty stone and brick dwells.; \$7,000; con., Block & Yoder; arch., A. Goenner, 600 F St.
Florida Ave., bet. 1st and North Capitol Sts., n w, 11 two-sty brick and stone dwells., 16' x 48'; own., Hobbs Bros.; arch., George S. Cooper, Baltic Building.

(Houses Continued.)

B St., bet. 9th and 10th Sts., n w, 2 three-sty brick and stone dwells., tiled mansard roofs, 21' x 73'; \$16,000; own., Jas. Fraser; con., J. H. Nolan; arch., N. T. Haller, Warner Bldg.

Second St., n e cor. A St., 5 three-sty dwells.; arch., B. Stanley Simmons; con., Wm. W. Winfree.
Watertown, Mass.—*Palfrey St.*, two-and-one-half-sty frame dwell., pitch roof, 32' x 34'; own., Henry W. Seward; arch., F. R. Allen, Boston; contract not let.

Worcester, Mass.—*Germans St.*, two-sty frame dwell.; own., A. H. Inman; arch., Geo. H. Clemence; con., Geo. M. Hubbard.
May St., two-sty frame dwell.; own., M. D. Brigham; arch., W. H. Harvey; con., Geo. M. Hubbard.

Pleasant St., two-sty frame dwell.; own., Miss Edith Kerie; arch., R. M. Bailey; con., W. E. Putnam.
June St., two-sty frame dwell.; own., F. S. Hoyt; arch., Geo. & J. P. Kingston; con., C. A. Colburn.

Wayne St., one-and-one-half-sty frame dwell.; own. and con., C. A. King.
Fairfield St., two-and-one-half-sty frame dwell.; own., A. N. Whittemore; con., Lackey & Peters.

Heywood St., one-and-one-half-sty frame dwell.; own., Hermans Ohs; con., L. Larson.
Summit Ave., one-and-one-half-sty frame dwell.; own. and con., F. P. Bourn.

Wyman St., three-sty frame dwell.; own., F. W. Gross; con., J. A. Brigham; arch., Barker & Nourse.
Mulberry St., three-sty frame dwell.; own. and con., Godfrey Fournier.

MERCANTILE BUILDINGS.

Boston, Mass.—*East Brookline St.*, Nos. 99-101, Ward 17, three-sty brick building, flat roof, 30' x 48'; own. and bld., Edw. E. Piper, 80 Chandler St.

Pittsfield, Mass.—*North and East Sts.*, six-sty brick and stone bank building; own., Berkshire Co. Savings Bank; arch., Francis R. Allen, Boston, Mass.

OFFICE-BUILDINGS.

Boston, Mass.—*Tremont St.*, No. 228, Ward 10, six-sty brick office and store-building, flat roof, 20' x 70'; \$17,000; own., J. J. Grace, 134 Tremont St.; bld., J. McNeil.

Philadelphia, Pa.—*Market St.*, s w cor. 15th St., twelve-sty terra-cotta fireproof Harrison office-building, steel frame construction; arch., Cope & Stewardson; con., Lewis Havens.

STABLES.

Baltimore, Md.—Two-sty brick stable, 30' x 60', e s Hunter Alley, bet. Preston and Biddle Sts.; own., E. B. Bruce, 1112 Calvert St.

Boston, Mass.—*Calumet St.*, near Hillside St., Ward 22, two-sty frame stable, pitch roof, 22' x 38'; own., Carl Sittlinger; bld. and arch., J. Luipold.
Albany St., No. 448, Ward 17, two-sty frame stable, flat roof, 31' x 56'; own., W. C. Norcross.

Rosseter St., No. 78, rear Bowdoin St., two-sty frame stable, pitch roof, 30' x 30'; own., Dr. F. B. Carleton, 78 Bowdoin St.; bld., H. J. McNabb.

Camden, N. J.—*Central Ave.*, No. 1036, one-sty stable; own., Ellen Preston, 1036 Central Ave.
Holmesburg, Pa.—*Ashton Road*, bet. Holmesburg and Bastion Pikes, stone and frame stable; own., Allen W. Kirk.

New York, N. Y.—*West Forty-sixth St.*, No. 112, two-sty brick stable, 20' x 90', 30' high, flat tin roof; \$5,000; own. and arch., John R. Downey, 19 West 45th St.

East Eleventh St., Nos. 711-713, four-sty brick stable, 50' x 103', 64' high, flat tin roof; \$15,000; own., Metropolitan Street Railway Co., 621 Broadway; arch., A. V. Porter.

Philadelphia, Pa.—*Soudan St.*, rear, No. 4842, frame stable; own., the Logan Estate; con., James Mole, 1718 Cayuga St.
Spruce St., rear, No. 1422, brick stable; own., Geo. W. Lower, 213 North 10th St.

Green Lane, n e Mitchell St., one-and-a-half-sty stable; con., William H. Eddiemann, 480 Green Lane.
Hartville St., above Indiana Ave., one-sty brick stable; own., Daniel McKibbin, 3844 D St.

Rush St., e 22d St., one-sty brick stable; own., Samuel Morrison, 3635 North 5th St.
Fifteenth St., n w cor. and above Huntingdon St., repairs to the burned stables, office and coach-house of the Omnibus Company General; about \$12,000 for office and coach-house alone; con., Charles L. Pierson, s w cor. Bishop St. and Park Ave.

Bellerue St., n s, w 20th St., two-sty brick stable and office, 20' x 35'; own., J. Clark Miller, 2006 Ontario St.
Cherry St., w s, s Dyer St., two-sty frame stable, 20' x 32'; own., Moss Bros., 1639 Wakeling St.

Coulter St., s s, e Patton Ave., two-sty stable, 20' x 30'; con., E. H. Hearst, 427 West School Lane.
Eaker St., rear, 37' s Washington St., one-sty brick stable; own., Charles D. Hill, 1511 North 27th St.

Lynn St., No. 2211, two-sty brick stable; con., Rush J. Whiteside & Sons, 2318 Wallace St.
Merion Ave., 160' s Girard Ave., one-sty stone stable; own., Thomas Donnelly; con., Thos. Wasser, 4614 Lancaster Ave.

Providence, R. I.—*Knight St.*, rear of 4th Police Station, two-and-one-half-sty brick stable for patrol-wagon house; \$5,000; own., City of Providence; arch., Hoppla, Read & Hoppla.
Plain St., rear of 5th Police Station; \$5,000; own., City of Providence; arch., Fred E. Field.

Washington, D. C.—*Alley*, bet. 2d and 3d Sts. and C and D Sts., three-sty brick stable; \$20,000; own., Geo. W. Knox Express Co.
Worcester, Mass.—*Alvardo Ave.*, two-sty frame stable; own., R. G. White; con., Ward & Blanding.

STORES.

Boston, Mass.—*Boylston Ave.*, near Lamartine St., Ward 13, two-sty frame store and office-building, flat roof, 46' x 68'; own., G. W. Sammet, 154 Hancock St.

Dorchester St., Nos. 19-21, Ward 14, frame building for stores and dwell., 23' x 53'; own. and bld., H. K. & N. Clark, 271 East 8th St.

Brooklyn, N. Y.—*Eighty-sixth St.*, n e cor. 14th St., 3 brick stores and dwells., tin roofs, one three-sty, 20' x 45'; 2 two-sty, 18' x 43'; total, \$10,000; own., Henry Hengos, on premises; arch., Robt. Dixon, 219 Montague St.

(Stores Continued.)

Chicago, Ill.—P. Harrington, two-sty brick store and flats, 796 Polk St.; \$6,000.
A. Koranda, three-sty brick store and flats, 2938 Stearns St.; \$4,500.

A. Raffel, three-sty brick store and flats, 292 Belmont Ave.; \$4,000.
James Vias, three-sty brick store and flats, 436 South Kedzie Ave.; \$10,000.

John Silhan, three-sty brick store and flats, 831 West 12th St.; \$8,000.
W. Frink, two-sty store and flats, 1748 Thirty-fifth St.; \$4,000.

Detroit, Mich.—B. W. Bunting, 3 three-sty brick stores, hall and dwell., 759-761 Grand River Ave.; \$8,000.

Harrisburg, Pa.—*Market Sq.*, four-sty store and office-building; about \$21,000; own., Wm. Calder's Estate; con., William Gates.
Market Sq., four-sty store, offices and lodge; about \$18,000; own., William Russ; con., J. P. Ryan.

Kansas City, Mo.—*Hickory St.*, Nos. 1214-1216, brick store; \$8,000; own., L. Bulline and B. W. Woodward.

New Haven, Conn.—*Orange St.*, No. 85, brick stores and offices; \$75,000; own., estate of O. F. Winchester; arch., L. W. Robinson.

New York, N. Y.—*Greene St.*, Nos. 15-17, six-sty brick store, 39' x 80' x 100', 85' high, flat tin roof; \$65,000; own., Presbytery of N. Y., 16 West 48th St.; arch., Samuel A. Warner, 132 Broadway.

West Forty-sixth St., Nos. 213-217, eight-sty brick store, 51' x 95', 100' high, flat felt and gravel roof; \$30,000; own., Mary P. Winterbottom, 209 West 56th St.; arch., James E. Ware, 487-489 Fifth Ave.

Philadelphia, Pa.—*Passyunk Ave.*, No. 1823, two-sty brick store and dwell.; own., Thos. L. Boyle, 1438 North 19th St.
Righter St., n Dawson St., two-sty brick and stone store, 18' x 40'; own., John P. Melodew, Manayunk and Hermit Sts.

Westminster Ave., w 48th St., one-sty stone and brick store, 36' x 38', with back building, 14' x 36'; con., Fred Schmitt, 878 North 48th St.
Two brick and terra-cotta stores, one at 806 Arch St., one at 50-52 North 8th St.; own., Dannenbaum Estate; con., Joseph Bird; arch., Frank R. Watson.

Baltimore Ave., s w cor. 48th St., three-sty brick store and dwell., 20' x 60', and two-sty stable, 16' x 20'; con., M. I. McCloskey, 3935 Haverford Ave.

San Antonio, Tex.—*Commerce St.*, store-building; \$19,000; own., Staacke Bros.; arch., J. R. Gordon; bld., Rendell.

TENEMENT-HOUSES.

Boston, Mass.—*North Margin St.*, No. 68, Ward 7, four-sty brick tenement, flat roof, 21' x 50'; \$10,000; own., David Milton, 5 Baldwin Pl.

WAREHOUSES.

Chicago, Ill.—Felix & Marston, five-sty and basement brick warehouse, 1601-1617 Arthur St.; \$60,000.
Detroit, Mich.—W. Reich, three-sty brick store-house, 22-26 Berlin St.; \$3,000.

Rogers & McFarland, five-sty brick warehouse, 35-43 Woodbridge St.; \$20,000.
New York, N. Y.—*Columbus Ave.*, w s, 29' n 107th St., six-sty brick storage building, 108' x 50', 81' high, peak star-roofing-roof; \$80,000; own., Bernheimer & Schmid, Columbus Ave. and 108th St.; arch., Lederle & Co., 15-25 Whitehall St.

Philadelphia, Pa.—*North Broad St.*, e s, 177' above Lehigh Ave., plans have been prepared for a large four-sty stone and brick storage warehouse for the Safe Deposit & Storage Co. There is also to be built a two-sty stone and brick stable for the accommodation of the company's horses; about \$16,000; con., George M. Miller.

MISCELLANEOUS.

Amesbury, Mass.—*High St.*, three-sty frame building for Y. M. C. A., hip roof, 50' x 95'; \$14,000; own., Y. M. C. Association; arch., W. H. Taylor and H. W. Colby, 296 Boylston St., Boston; contracts are let.

Baltimore, Md.—Greenhouse, 18' x 95', n w cor. North and Slingluff Aves.; own., Wm. J. Halliday, 316 North Charles St.

Cambridge, Mass.—*Cambridge St.*, four-sty frame and brick building and wings, slate roof, administration bldg., 50' x 150'; wings, 40' x 80'; plans are nearly completed; own., Home for Incurables, Trustees; arch., W. H. & J. A. McGinty, Boston, Mass.

Chicago, Ill.—Illinois Central R. R. Co., one-sty frame passenger depot, bet. 71st and 72d Sts.; \$3,000.
Metropolitan Elevated R. R. Co., power-house, 143-145 Loomis St.; \$150,000.

Martin A. Ryerson, greenhouse, 4831-4839 Drexel Boulevard; \$8,000.
Chicopee, Mass.—Three-sty brick brewery building, flat roof, 33' x 76'; \$25,000; own., Wm. Ritter, Crystal Spring Brewery; arch., Le Derle & Co., N. Y. C.

Devon, Pa.—Four-sty local stone "Hutchinson Ward of the Eliza Cathcart Home for Incurables," slate roof; arch., Wilson Bros. & Co., Drexel Building, Philadelphia.

Holyoke, Mass.—*Race St.*, five-sty brick block for manufacturing purposes, with 3 stores on first floor, flat roof, 51' x 76'; own., Parsons Paper Co.; arch., Clough & Reid.

Meriden, Conn.—*Centre St.*, three-sty frame building for manufacturing, flat roof, 40' x 100'; own., W. T. Wooley; contract not let.

New York, N. Y.—*Piers 33-34*, one-sty iron freight shed, 161' x 344', peak galvanized iron roof; \$10,200; own., Benjamin F. Clyde, Philadelphia, Pa.; arch., Iron Bridge Co., 95 Nassau St.

Forty-fourth St., n e cor. Depew Ave., three-sty brick power-house, 25' x 104', 44' high flat concrete and asphalt roof; \$12,000; own., R. & O. Goelet, 9 West 17th St.; arch., W. H. C. Hornum, 181 East 121st St.

Philadelphia, Pa.—*York Road*, near Butler St., frame tool-shed; own., Woodbridge & Turner Engineering Co., Chester, Pa.

Penn St., bet. Bainbridge and Almond Sts., two-sty brick and iron bridge for warehouse of Franklin Sugar Refinery; con., Samuel Hart & Sons, 1109 Fairmount Ave.

Frankford Ave., n w s, n e Academy Road, frame wagon shed, 20' x 40'; own., Chas. K. Thomas, Holmesburg, Pa.

THE J. L. MOTT IRON WORKS,

84 to 90 Beekman Street, New York.

311 and 313 Wabash Avenue, Chicago.

322 and 324 Boylston Street, Boston.

Wainwright Building, St. Louis.

Flood Building, San Francisco.



Copyright, 1893, by THE J. L. MOTT IRON WORKS, in their publications. Plate 1087G. (Reduced cut.)

FINE appearance, durability, and perfection from a sanitary standpoint are all combined in these baths. They entail no labor, scouring or burnishing, requiring merely to be wiped out with a sponge to be thoroughly cleaned.

Interested parties are invited to visit our showrooms and examine these and other sanitary appliances.

IMPERIAL PORCELAIN ROLL-RIM BATHS.

ILLUSTRATED PRICE-LIST MAILED ON APPLICATION.

BUILDING INTELLIGENCE.

(Miscellaneous Continued.)

Susquehanna Ave. and Ninth St., one-st'y iron, brick and frame repair shops and car-shed, 164' 6" x 530'; con., Chas. McCaul, 10 North 11th St.
Race and Thirtieth Sts., one-st'y frame blacksmith shop, 19' x 20', covered with iron; own., Martin, Fuller & Co., 30th St., above Market St.
Waterloo St., No. 3327, frame wagon-shed; own., Owen Little Sons, 3032 Wyoming St.
Salmon St., e s, n Lefevre St., 4 one-st'y frame greenhouses; own., Gillingham Bros., 5407 Salmon St.
North Twentieth St., Nos. 1701-3, three-st'y brick plumbers' shop, 25' x 25', with an ell, 15½' x 15½'; upper floors to be used for lodge-rooms; own., Robt. Watt, 1701 North 20th St.
Hartville St., e s, above Indiana Ave., one-st'y brick smoke-house; own., George Downs, 1701 North 20th St.
Lex Ave., No. 821, frame wagon-shed; con., George R. Acheson, 4833 Parrish St.
Lancaster Ave., w 56th St., one-st'y frame tool-house, 12' x 30'; con., John A. Kelley, 8 South Broad St.
Passyunk Ave., rear, No. 1823, two-st'y brick workshop; con., Thomas S. Boyle, 1438 South 19th St.
Wharton St., s s, w 36th St., one-st'y brick office, 20' x 30'; con., Armstrong & Printzenhoff, 136 South 4th St.
Grays Ave., n e cor. 72d St., frame open wagon-shed; own., M. Biadley; con., J. Donaldson, 1612 South 72d St.
Lancaster Ave., rear, s e cor. 63d St., frame boarding building and cement shed; con., B. E. Malone, 5522 Lancaster Ave.
Christian St., No. 1740, frame shelter shed for laundry; own., John Ling, 2216 Christian St.
Washington Ave., s w cor. 19th St., 2 frame coal-sheds, 24' x 130' and 15' x 24'; own., Patrick & Lipsett.
Waltham, Mass.—*Felton St.*, near Fountain St., two-and-one-half-st'y brick workshop; \$10,000; own., City of Waltham; arch., L. C. Abbott.
Worcester, Mass.—*West St.*, four-st'y brick engi-

BUILDING INTELLIGENCE.

(Miscellaneous Continued.)

neering laboratory, with one-st'y brick power-house attached; own., Worcester Polytechnic Institute; con., Pellet Bros.; arch., Earle & Fisher.
Blackstone St., two-st'y brick shop; own., C. M. Thayer; con., Jeremiah Murphy; arch., W. H. Harvey.
Lowell St., one-st'y greenhouse; own. and con., W. J. Wood.

COMPETITIONS.

MUSEUM OF ANTIQUITIES.

[At Cairo, Egypt.]
 The Egyptian Government have decided to put into competition the supply of the best project for building a museum for the Egyptian Antiquities in Cairo. Architects of all nations are admitted to compete. The amount allotted for this purpose is £E. 120,000. Awards will be given to the authors of the best projects; the first being fixed at £200 and the next four will have a sum of £E. 400 divided amongst them. The projects should reach Cairo at latest on the 1st March, 1895, at noon. The programme of this competition will be supplied by the Public Works Department in Cairo, on application. 985

NOTE:—The sterling pound is worth £E. 0.975, and the French piece of twenty francs £E. 0.770.

PROPOSALS.

Treasury Department, Office Supervising Architect, Washington, D. C., September 10, 1894. Sealed proposals will be received at this office until 2 o'clock p. m. on the 9th day of October, 1894, and opened immediately thereafter, for all the labor and materials required for a new building, etc., at the United States Marine Hospital, Vineyard Haven, Mass., in accordance with the drawings and specification, copies of which may be had at the office of the Custodian at Vineyard Haven, Mass. Each bid must be accompanied by a certified check for a sum not less than

PROPOSALS.

two per cent of the amount of the proposal. The right is reserved to reject any and all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for a New Building, etc., at the United States Marine Hospital, at Vineyard Haven, Mass.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 978

Treasury Department, Office Supervising Architect, Washington, D. C., September 5, 1894. Sealed proposals will be received at this office until 2 o'clock p. m. on the 26th day of September, 1894, and opened immediately thereafter, for all the labor and materials and fixing in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus required for the United States Post-office building at Lewiston, Me., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Lewiston, Me. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Heating and Ventilating Apparatus, etc., for the United States Post-office building at Lewiston, Me.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 978

RUBBLESTONE.

[At Sandy Bay and Gloucester, Mass.]
 Proposals are wanted until October 4, for delivery of rubblestone in breakwaters at Sandy Bay and Gloucester Harbor, Mass. Address S. M. MANSFIELD, Lt.-Col. Engrs., U. S. Engineer Office, Boston, Mass. 979

RUBBLESTONE.

[At Newburyport, Mass.]
 Proposals are wanted until October 4, for delivery

Lead-Lined Iron Pipe and Fittings,

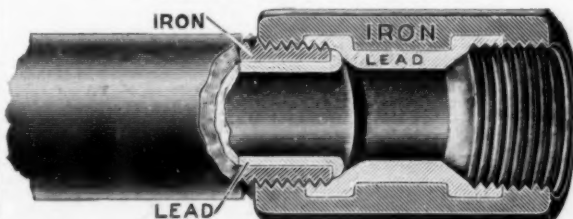
IT CANNOT RUST OR EAT OUT.

ALL FITTINGS ARE LEAD-LINED AND HAVE A PORTION OF THE THREAD IN LEAD.

WHEN COUPLED UP, A PERFECTLY TIGHT LEAD JOINT IS MADE (see cut).

NEW ENG. WATER-PIPE CO.
 Wakefield, Mass.

SUPPLY, VENTILATION AND SOIL PIPE.
 A Substitute for Lead Pipe.



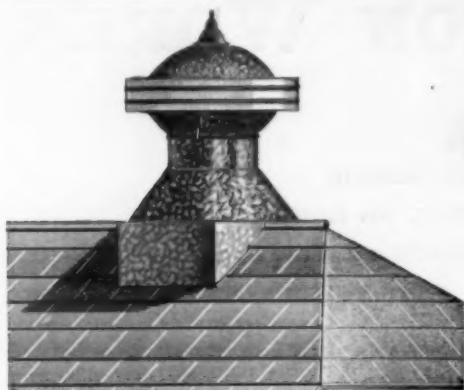
IT IS MUCH CHEAPER THAN LEAD PIPE.

IS NOW USED IN FORTY CITIES AND TOWNS.

IT CAN BE CUT WHEREVER DESIRED AND ENDS PERFECTLY PROTECTED.

IT IS MUCH STRONGER THAN LEAD PIPE.

WE USE STANDARD IRON PIPE AND MALLEABLE IRON FITTINGS.



The Proverbial Cucumber

is not cooler than a

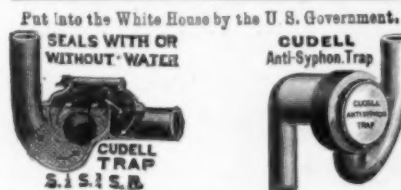
HOUSE, HALL, CHURCH OR FACTORY

that is ventilated by the

GLOBE VENTILATOR.

Send for Circular on the Subject.

GLOBE VENTILATOR COMPANY,
TROY, NEW YORK.



Put into the White House by the U. S. Government.
SEALS WITH OR WITHOUT WATER
CUDELL TRAP
S. I. S. B.
For venting, use vent-top. For venting, use vented outlet
F. E. CUDELL'S
PATENT SEWER-GAS AND BACK-WATER TRAP,
For Wash-Bowls, Sinks, Bath and Wash-Tub
West Cleveland, O.

PROPOSALS.

of rubblestone in the south jetty at Newburyport Harbor, Mass. Address S. M. MANSFIELD, Lt.-Col. Engrs., U. S. Engineer Office, Boston, Mass. 979

REPAIRS TO BREAKWATER. [At Burlington, Vt.]
Proposals are wanted until October 5, for repairs to Burlington Breakwater. Address SMITH S. LEACH, Captain of Engineers, as above. 979

STONE.
Proposals are wanted until October 4, for building and riprap stone in Potomac River. Address MAJOR C. E. L. B. DAVIS, U. S. Engineer Office, 601 Eighteenth St., N. W. Washington, D. C. 979

STONE.
Proposals are wanted until September 25, for stone for building lock No. 2 on Cumberland River. Address CAPT. JOHN RIDDLE, U. S. Engineer Office, Nashville, Tenn. 978

WAGON-SHED. [At Fort Brady, Mich.]
Proposals are wanted until September 29, for a wagon-shed. Address POST QUARTERMASTER, as above. 978

BRIDGES AND BRIDGE MASONRY.
Proposals are wanted until October 31, for bridges and bridge masonry along the line of the Main Drainage Channel. Address CLERK OF SANITARY DISTRICT OF CHICAGO, Room H, Rialto Building, Chicago, Ill. Plans, etc., at office of Chief Engineer, same address. 983

WATER-WORKS. [At Morrisville, N. Y.]
Proposals are wanted until September 24, for a system of water-works. Address DAVID D. JONES, Secy. Board of Water Commissioners, as above. 978

LEVEES.
Proposals are wanted until September 25, for levees in the Upper Tennessee district. Address CAPT. C. McD. TOWNSEND, U. S. Engineer Office, 106 Madison St., Memphis, Tenn. 978

POLICE STATION. [At Cleveland, O.]
Proposals are wanted until September 20, for building the Twelfth Precinct Police Station on Detroit St., 41st Ward. Cramer & Fugman, architects, 89 Euclid Ave. Address CLERK OF BOARD OF CONTROL, as above. 977

DAMS.
Proposals are wanted until September 22, for dams and shore protections on Upper Mississippi River. Address U. S. ENGINEER OFFICE, Rock Island, Ill. 977

VENTILATION, ETC. [At Springfield, Mass.]
Proposals are wanted until September 17, for a system of ventilation in old asylum building at almshouse, for brick addition to passageway, and for repairs. Plans, etc., at office of Overseers of the Poor. Address GEO. A. RUSSELL, Chairman, as above. 977

HEATING AND VENTILATING, ETC. [At Auburn, Cal.]
Proposals are wanted until October 19, for heating and ventilating apparatus, vaults and cells in Placer County Court-house. Address GEORGE B. HEWES, Chairman Board of Supervisors, as above. 981

PENITENTIARY. [At Nashville, Tenn.]
Proposals are wanted until October 1, for the State Penitentiary Buildings. Address ED. LAURENT, Supervising Architect, as above. 979

WATER-WORKS. [At Greenville, Miss.]
Proposals are wanted until October 2, for water-works. Address CITY CLERK, as above. 979

ENAMELLED FRENCH BATHS.

With
Patent Supply
and
Waste.

Send for New Catalogue.



MANUFACTURERS OF
AND DEALERS IN
PLUMBERS' SUPPLIES
—AND—
SANITARY SPECIALTIES.

Haines, Jones & Cadbury Co.,
No. 1136 Ridge Avenue, Philadelphia, Pa.



"DUPLIX"

THE BEST WATER CLOSET

IN THE WORLD

Quiet in Operation,
Positive in Action,
Elegant in Appearance
—AND—
Sanitarily Perfect.

FRED. ADEE & CO.,
90 BEEKMAN ST.,
NEW YORK.

PROPOSALS.

ELECTRIC-LIGHTING. [At Jackson, Tenn.]
Proposals are wanted until September 29, for electric lighting. Address SAM C. LANCASTER, City Engineer, as above. 979

MONUMENT. [At Newton, N. J.]
Proposals are wanted until September 29, for a Quincy granite Soldiers and Sailors Monument, to cost about \$5,800. Address SAMUEL JOHNSON, Newton, Sussex Co., N. J. 978

BARRACKS, ETC. [At Fort Myer, Va.]
Proposals are wanted until September 27, for barracks and officers' quarters. Address LIEUT.-COL. GEORGE H. WEEKS, Depot Quartermaster, Washington, D. C. 978

BUILDINGS. [At Plattsburgh, N. Y.]
Proposals are wanted until September 27, for storehouse buildings, officers' quarters, etc. Address GEORGE C. POND, A. Q., U. S. A., as above. 978

IRONWORK. [At Kanawha, W. Va.]
Proposals are wanted until September 27, for about 635,000 lbs. wrought-iron and 327,000 lbs. cast-iron for movable dams on the Great Kanawha River. Address ADDISON M. SCOTT, as above. 978

LIGHT STATION. [At Solomon's Lump, Md.]
Proposals are wanted until September 26, for a light station. Address ERIC BERGLAND, Capt. U. S. A., Office of Light-house Engineer, Fifth District, Baltimore, Md. 978

OFFICERS' QUARTERS. [At David's Island, N. Y.]
Proposals are wanted until September 25, for officers' quarters. Address J. W. SUMMERHAYES, A. Q. M., U. S. A., as above. 978

SCHOOL. [At Fort Leavenworth, Kan.]
Proposals are wanted until September 25, for addition to school. Address CAPT. F. G. HODGSON, A. Q. M., U. S. A., as above. 978

PROPOSALS.

TELEPHONE SYSTEM. [At Washington, D. C.]
Proposals are wanted until September 24, for telephone exchange system for Department of Interior. Address JOHN M. REYNOLDS, Acting Secretary, Department of the Interior, as above. 978

REPAIRS. [At Fort Mifflin, Pa.]
Proposals are wanted until September 25, for repairs at Naval Magazine, Fort Mifflin, near Philadelphia. Address W. T. SAMPSON, Bureau of Ordnance, Navy Department, Washington, D. C. 978

BUILDINGS. [At Fort Harrison, near Helena, Mont.]
Proposals are wanted until September 19, for several brick and frame buildings and for plumbing, steam-heating and gas-piping. Address GEORGE S. HOYT, Capt. U. S. A., Helena, Mont. 977

COUNTY JAIL. [At Ortonville, Minn.]
Proposals are wanted until September 21, for a county jail for the County of Big Stone, Minn. Plans, etc., at office of auditor of county. Address BUILDING COMMITTEE OF COUNTY JAIL, as above. 977

Treasury Department, Office Supervising Architect, Washington, D. C., August 31, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 20th day of September, 1894, and opened immediately thereafter, for the plumbing, gas-piping and electric-wire conduits for the United States Custom-house and Post-office building at Newark, N. J., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent at Newark, N. J. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Plumbing, Gas-piping and Electric-wire Conduits for the United States Custom-house and Post-office building at Newark, N. J.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 977

THE VAN VRANKEN FLUSH TANK.
For Sewers, Subsoil Disposal, etc.
For catalogues, discounts and other particulars, address
J. LELAND FITZGERALD,
437 STATE STREET, SCHENECTADY, N. Y.

"THE CAST SINK MUST GO"

THE COLUMBUS WROUGHT STEEL SINK DISPLACES ALL OTHERS

PAINTED, GALVANIZED, ENAMELLED.

Send for descriptive circular and prices, to
The Kilbourne & Jacobs Mfg. Co.
Sole Manufacturers. - COLUMBUS, OHIO.

BOSTON FIRE-BRICK WORKS.

FRONT BRICK

BUFF, BROWN, MOTTLED YELLOW,
GRAY, OLD GOLD AND
OTHER COLORS.

**ARCHITECTURAL
TERRA-COTTA**

In all its varied colors and forms.

FISKE, HOMES & CO.,

MANAGERS,

Factories on Federal Street and
at South Boston.

Office 164 Devonshire St., Boston.

Times Building, Park Row, New York.

927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.

SOLE OWNERS AND MANUFACTURERS OF

J. G. MERRILL'S PATENT

SALAMANDER

Fire-Proof Composition



FOR BUILDINGS.

Used as Lining between
Floors, and upon Walls,
Ceilings, Elevator and
Light Shafts, Boiler Rooms,
Doors, Shutters, etc. It is
Air, Dust, and Vermin
Proof, and a Sound

Office, 166 Devonshire Street, BOSTON.

Deadener.

A. J. HODDER, Pres.
CHAS. T. WAKER, Treas.
W. D. LOMBAR, Gen. Mgr.

For estimates on

**ASPHALT
WORK**

of every descrip-
tion apply to Man-
ager,

T. Hugh Boorman,

N. Y. Mastic Works, 35 Broadway, N. Y.
Asphalt Mine Owners in France, Sicily, etc.

BROOKS, SHOOBRIDGE & CO.,

PORTLAND CEMENT.

Works: Grays, Essex, England.

New York Office: 7 Bowling Green.

Fire-proof Building.

RARITAN HOLLOW & POROUS BRICK CO.,

MANUFACTURERS OF

Hollow Fire-Clay and Porous Terra-Cotta Bricks

of Every Description, for Fireproof Buildings.

BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.

Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.

Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.

HENRY MAURER & SON,

Manufacturers of

FIRE-PROOF BUILDING MATERIAL

Of every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.

Porous Terra-Cotta, Fire-Brick, etc., etc.

Works, MAURER, N. J. Office and Depot, 420 EAST 23d STREET, New York.

Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."

**C. PARDEE
WORKS,**

Manufacturers All Kinds Fireproof Building Materials, etc.
Perth Amboy, N. J. See ad. on page XX.

**PIONEER FIREPROOF
CONSTRUCTION CO.**

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile AND Porous Terra-Cotta

FOR FIREPROOFING BUILDINGS.

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

TO ARCHITECTS,
BUILDERS
AND OWNERS.

Attention is called to Fireproof and Vermin-Proof

MINERAL WOOL,

As a Lining in Walls and Floors for preventing the
ESCAPE OF WARMTH AND THE DEADENING OF SOUND.

AMERICAN MINERAL WOOL CO.

Lessee of

Sample and Circulars Free.

Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N.Y. City.

Roebling STANDARD Wire Lathing
FIREPROOF—DURABLE—ECONOMICAL

Pays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures
a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three
public tests—detailed accounts of which will be mailed to any address upon request.

**THE NEW JERSEY WIRE CLOTH COMPANY,
TRENTON, N. J.**

Massachusetts Material-Men and Contractors.

ARTIFICIAL STONE.	FIREPROOFING.	HEATING CONTRACTOR.	MASON CONTRACTORS.
SIMPSON BROS. 166 Devonshire St. Boston, Mass.	BOSTON FIREPROOFING CO. 166 Devonshire St. Boston, Mass.	W. E. FLORENCE, 10 Beacon St. Chelsea, Mass.	THOMAS J. LYONS, 166 Devonshire St. Boston, Mass.
BUILDING CONTRACTORS.	FURNACES.	INTERIOR DECORATOR.	PAPIER MACHÉ.
LITTLEFIELD BUILDING CO. Incorporated. Room 57, 166 Devonshire St. Boston, Mass.	CYRUS CARPENTER & CO. 44 Hanover St. Boston, Mass.	WILLIAM J. DOLAN, 224 Tremont St. Boston, Mass.	CONLAN & MAYBECK, 65 Wareham St. Boston, Mass.
CARVERS, MODELLERS.	GRANITE.	IRON WORK. (Building)	SASH CORD.
JOHN EVANS & CO. 77 Huntington Ave. Boston, Mass.	GRANITE RAILWAY CO. 166 Devonshire St. Boston, Mass.	R. F. HAWKINS' IRON WORKS, Springfield, Mass.	SILVER LAKE CO. 78 Chauncy St. Boston, Mass.
ELECTRIC WORK.	HEATING. (Air & Water)	MANTELS. (Wood)	SLATE. (Roofing)
BLODGETT BROS. & CO. 39 Federal St. Boston.	MAGEE FURNACE CO. 30-8 Union St. Boston, Mass.	J. W. BAILEY & SONS CO. 14 Charlestown St. Boston, Mass.	H. H. MATHEWS, 178 Devonshire St. Boston, Mass.

Bricks and Terra-Cotta.

HYDRAULIC BRICK,
PLAIN & MOULDED
OF ANY COLOR
RED, BUFF, GRAY, BROWN,
PINK, MOTTLED, GRANITE.

Total Annual Capacity, 100,000,000.

HYDRAULIC-PRESS BRICK CO.,
ODD FELLOWS' BUILDING,
ST. LOUIS, MO.

PERTH AMBOY
TERRA-COTTA COMPANY,

— OF —
PERTH AMBOY, NEW JERSEY.

OFFICE, 289 Fourth Ave., NEW YORK.

PHILADELPHIA
OFFICE,
DREXEL BLDG.

BOSTON AGENTS,
WALDO BROS.,
88 Water Street.

TIFFANY PRESSED BRICK CO.,

Manufacturers of

Pressed and Enamelled Brick,

Plain and Ornamental.

403 Chamber of Commerce Bld'g,
CHICAGO.

"Architects" } **LAFARGE'S**
SPECIFY } **CEMENT**

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,

Importer and Sole Agent,

81 and 83 Fulton St., N. Y.

A USEFUL THING.

Printed Specifications FOR
Roofs and Iron Buildings,

PREPARED BY

Charles Evans Fowler,

Assoc. M. Am. Soc. C. E.

Chief Engineer of the Youngstown Bridge Co.

For sale at the office of the AMERICAN ARCHITECT.

Price, 25 cents per copy.

NEW YORK
ARCHITECTURAL TERRA COTTA
COMPANY.

OFFICE,
38 PARK ROW,
New York City.

WORKS,
LONG ISLAND CITY,
New York.

GENERAL AGENTS FOR NEW ENGLAND:

BOSTON FIRE BRICK COMPANY,
Flake, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.

STEPHENS, ARMSTRONG & CONKLING,
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, Philadelphia, Pa.

— INDIANAPOLIS —
TERRA-COTTA CO.

Works: Brightwood, Ind.

ESTIMATES ON SPECIAL DESIGNS PROMPTLY
FURNISHED. WRITE FOR CATALOGUE
AND DISCOUNTS.

SEMI-GLAZE OR DEAD-FINISH.
ALL COLORS.

POMPEIIAN,
BUFF AND RED PRESSED,
ALSO ORNAMENTAL

FACE BRICK MANUFACTURE.

CAPACITY, 100,000,000 PER ANNUM.

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

FRONT BRICKS
AND
TERRA-COTTA

— IN OVER TWENTY COLORS. —

Chimney Flue Linings, Chimney Tops, Drain
Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,
86 WATER STREET. - - BOSTON.

THE
Northwestern Terra-Cotta Co.
Manufacturers of

Architectural Terra-Cotta.

WORKS & MAIN OFFICE:
Cor. Olybourn & Wright-
wood Avenues.

CITY OFFICES:
Room 1118 Rookery Bldg.
cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for
Catalogue and Samples.

BRICK OF ANY COLOR
AND
OF ALL SHAPES.

BRICK FIREPLACES



NO. 3 SPANISH.

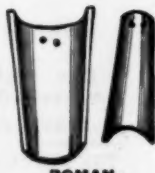
BALTIMORE ROOFING TILE CO.

BURNS, RUSSELL & CO., Proprietors,

535 Columbia Avenue, Baltimore, Md.,

MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other
styles of Clay Roofing Tiles in all colors,
glazed or unglazed.



ROMAN

CATALOGUE ON APPLICATION.

C. PARDEE WORKS, Perth Amboy, N. J.
MANUFACTURERS
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIREPROOF BUILDING MATERIALS, ETC.

PAUL E. CABARET (Successor to SPADONE & CABARET),
BRONZE AND BRASS WORK OF ALL KINDS
For Banks, Churches, Mausoleums, etc. Doors and Gates a specialty.
Send for Catalogue. Herring Building, Junction of 9th Ave. & 14th Street, New York.

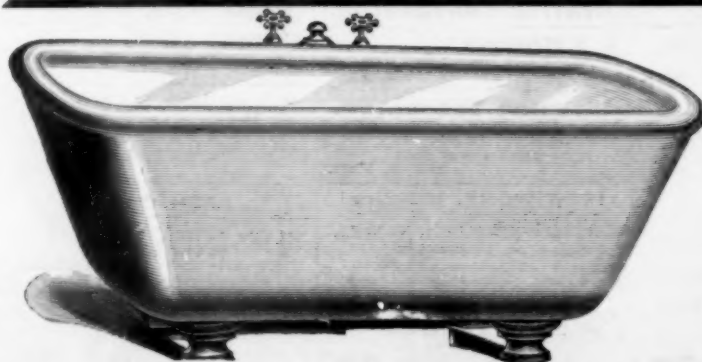


Giant Metal Sash Chain.

MADE ONLY BY
THE SMITH & EGGE MANUFACTURING CO.,
BRIDGEPORT, CONN.

The most reliable and economical article in the market for the purpose. GREAT TENSILE STRENGTH. Does not corrode; does not lose its vitality by continuous use, or exposure to the elements; runs over any pulley, and gives satisfaction wherever it is used. Fixtures made of steel wire, is very simple and easily applied. Prices very low. Samples sent to any architect in the United States, free, on application. Now in use in State House, Hartford; Providence City Hall; Singer Building, Chicago; J. C. Flood's, Menlo Park, Cal.; Vancouver and Florence Flats, New York; Boreel Building, New York; new State, War and Navy Departments, and Patent Office, Washington, D.C.; Herald Building, Boston, and very many other fine buildings in all parts of the United States.

Porcelain Bath Tubs



"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.

"SLUICE" Syphon Water Closet.

MINTON'S TILES

For Bathrooms, Halls and Vestibules; Glazed,
Unglazed and Enamelled.

MILLER & COATES, 279 PEARL STREET
NEW YORK.

260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.

THE ONLY MEDAL AND AWARD FOR SHINGLE STAINS
At the World's Columbian Exposition
HAS BEEN AWARDED TO
DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.

PEERLESS COLORS FOR MORTAR.

BLACK, RED, BROWN, BUFF. NEW COLORS, MOSS GREEN, ROYAL PURPLE, FRENCH GREY, POMPEIAN BUFF
COLONIAL DRAB.

THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.

PLASTER ARCHITECTURAL ORNAMENTS FROM ORIGINAL AND SPECIAL DESIGNS.

SAMUEL H. FRENCH & CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.

P. SEBIRE & SONS
NURSERYMEN
A GENERAL ASSORTMENT OF
FRUIT TREE STOCKS, MAHOGANY, CHERRY, SMALLER TREES,
APPLE, PLUM, MAHOGANY, SMALLER TREES,
MYRTLE, PLUM, MAHOGANY, SMALLER TREES,
C. C. ABEL & CO. PO. Box 226, New York



W. R. OSTRANDER & CO.,
204 Fulton Street, New York.

Manufacturers of

Speaking-Tubes, Whistles, Oral, Electric, Mechanical and Pneumatic Annunciators & Bells. Complete outfits of Speaking-Tubes, Whistles, Electric, Mechanical, and Pneumatic Bells. A full line always in stock. Send for New Catalogue. Factory, De Kalb Ave. near Knickerbocker, Brooklyn, N. Y.



PASSENGER
AND
FREIGHT
ELEVATORS

Morse, Williams & Co.,
Electric and Hydraulic High Speed
Passenger Elevators.
Steam, Belt and Hand Power Freight Elevators.
1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.
19 Pearl St., Boston. 82 Church St., New Haven.
714 Omaha Building, Chicago. Builders' Exchange, Baltimore, Md.

Decorative
Glass and
Sand Blast
Work.

THE MATTHEWS DECORATIVE GLASS CO.
MANUFACTURERS OF
ORNAMENTAL GLASS in Sheets or from Special Design
By the SAND-BLAST and other Patented processes.
CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,
Gold and Silver Embossed, and Transparent Glass Signs. Marbleized Glass
for Ceilings. Estimates promptly furnished on application.
338-330 E. 26th Street, New York City.

[See Alphabetical Index on page vi for Pagination.]

Classified Advertisements.

[Advertisers can be indexed only under a single head free of charge].

- Annunciators.** W. R. Ostrander & Co., New York.
Architects. Bailey & Truett, Philadelphia, Pa. (mon)
F. E. Kiddle, Denver, Colo.
Architect's Materials. Frost & Adams, Boston. (cov)
Architectural Iron Work. Globe Iron Works, Chicago, Ill.
Architectural Wood-Work. Harlan & Hollingsworth Co., Wilmington, Del.
Artificial Limbs. A. A. Marx, New York.
Art Metal Work. Ludlow Taylor Wire Co., St. Louis, Mo. (mon)
Asbestos Felt & Rubber Coverings. U. W. Johns Mfg. Co., New York.
Asbestos Paint. U. W. Johns Mfg. Co., New York.
Asphalt. Houschard Asphalt Co., New York.
Asphalt Roofing. Warren Chemical & Mfg. Co., New York.
Bacula Cocks. Stephens Mfg. Co., Brighton, Mass. (cov)
Bath-Tub. Miller & Co., New York.
Books and Journals. Babcock & Wilcox Co., New York.
Wm. T. Comstock, New York.
T. K. & Co., Boston.
Brick (Colored). Jordan Brick Co., Philadelphia, Pa.
Brick (Enamelled and Faced). Infamy Faced Brick Co., Chicago, Ill.
Brick (Ornamental). Fennell Cement & Brick Co., New York. (cov)
Brick (Hydraulic Press Brick Co., St. Louis).
Waldo Bros., Boston.
Bronze-Work. M. J. Power, New York.
Bronze and Brass Work. Paul & Cabaret, New York, N. Y.
Building Brick. Harby & Gardner, Palmer, Mass. (cov)
Building Felt (Fire and Waterproof). H. W. Johns Mfg. Co., New York.
Carpeting. John H. Gray, Sons & Co., Boston.
Ceilings (Metal). Berger Mfg. Co., Canton, Ohio. (cov)
H. B. Northrop, New York, N. Y.
N. Y. Metal Ceiling Co., N. Y. City. (cov)
Fennell Iron Roofing & Corrugating Co. (Lim.), Philadelphia, Pa. (mon)
Cement (Hydraulic). F. O. Norton Cement Co., N. Y.
Cement. Allen's Cement Works, New York, N. Y. (cov)
Buckeye Portland Cement Co., Bellefontaine, Ohio.
James Broad, New York, N. Y.
Brooks, Rhodebridge & Co., New York.
Fleming Cement & Brick Co., New York. (cov)
Johnson & Wilson, New York.
Lawrence Cement Co., New York, N. Y.
E. Thiele, New York, N. Y.
Chrome Steel Castings. Chrome Steel Works, Brooklyn, N. Y. (cov)
Cord-Ropes (Wool). Lamb & Ritchie, Cambridgeport, Mass.
Conservatories. Lord & Barnham Co., Irvington-on-Hudson, N. Y.
Consulting Engineer. George Hill, New York, N. Y.
Contractors. Bryant Building & Construction Co., Palmer, Mass.
Cordage. Samuel Cordage Works, Boston. (cov)
Correspondence School. School of Mechanics and Industrial Science, Scranton, Pa.
Crescent Stairs. S. Cabot, Boston, Mass.
Coverings. (Boiler & Pipe) U. W. Johns Mfg. Co., New York, N. Y.
Decorative Glass. Metallic Setting Co., Providence and Boston.
Decorators. L. Habentzsch & Son, Boston.
Deer-Hangers. J. Bardeley, New York, N. Y.
Door Hangers. L. Habentzsch & Son, Boston.
Electric Pumps. Goulds Mfg. Co., Seneca Falls, N. Y.
Elevators, esp. Graham Elevator Co., Springfield, Mass.
Graves Elevator Co., Rochester, N. Y.
Moore & Wyman, Boston.
Morse, Williams & Co., Philadelphia.
Oils Brothers & Co., New York.
Penn. Elevator Engineering Co., Philadelphia.
Standard Elevator Co., Chicago, Ill.
Whitaker Machine Co., Boston.
Fans (Ventilating). Huyet & Smith Mfg. Co., Detroit, Mich.
Fireproof Building. Henry Maurer, New York.
Finer Fireproof Construction Co., Chicago, Ill.
Fireproofing. American Fireproofing Co., Boston, Mass.
Fireproof Lathing. Hayes Metallic Lathing, New York.
Fireproof Material. C. Purdee, Perth Amboy, N. J.
Fire Pumps. Goulds Mfg. Co., Seneca Falls, N. Y.
Floors (Inlaid). National Wood Mfg. Co., N. Y.
Leland Fitzgerald, Schenectady, N. Y.
Furniture (Special). Chicago Interior Decorating Co., Chicago, Ill.
Gates. Wm. H. Pitt, New York, N. Y. (mon)
Glass (Stained and Ornamental). Matland Armstrong & Co., New York.
Matthews Decorative Glass Co., New York.
Metally Glass Co., Chicago, Ill. (mon)
Tiffany Glass & Decorating Co., New York.
Grates, etc. E. A. Jackson & Bro., New York, N. Y.
George H. Bell & Co., New York.
Greenhouses. Hitchings & Co., New York, N. Y.
Hardware. (Art) L. Leland Fitzgerald, Schenectady, N. Y.
Hardware. (Builders) Harditt & Williams, Boston, Mass.
Heaters (Steam and Hot Water). George H. Bell & Co., New York.
Heating and Ventilating. Percy N. Kenway, Boston, Mass.
Smith & Anthony Shore Co., Boston.
Heating Apparatus (Steam). American Boiler Co., Boston, Mass.
Gurney Hester Mfg. Co., Boston.
W. L. Mfg. Co., Chicago. (mon)
Heating Apparatus (Steam). Gorton & Laderwood Co., New York. (cov)
Heating Apparatus (Steam). H. B. Smith Co., New York.
Heliotype Process. Heliotype Printing Co., Boston.
Hot-Blast & Operating. Huyet & Smith Mfg. Co., Detroit, Mich.
Insulated Wire. W. R. Ostrander, New York, N. Y. (cov)
The Ostrander Co., (Lim.) New York, N. Y. (cov)
Insurance. Continental Insurance Co., N. Y. (cov)
Interior Decorations. Chicago Interior Decorating Co., Chicago, Ill.
Iron-Work (Architectural). Belmont Iron Works, Philadelphia, Pa. (cov)
Jackson Architectural Iron Works, N. Y.
Pascall Rolling Mill Co., Paterson, N. J.
Phoenix Iron Co., Philadelphia.
Iron (Galvanized). Apollo Iron Works Co., Pittsburgh, Pa.
Laundry Machinery. Troy Laundry Machinery Co., Troy.
Mail Chutes. C. Hayes, New York.
Marble Monies. Aschlimann & Fellner, New York.
Marble Workers. Sedgwick, Lee & Sons, New York.
Robert C. Fisher & Co., New York.
Metal Lathing. Cincinnati Corrugating Co., Piquette, Ohio.
Metal-Work (Wrought). Paul H. Cabaret, New York.
John Williams, New York.
Mineral Wool. American Mineral Wool Co., New York.
Mortar Colors. Samuel H. French & Co., Philadelphia.
Mosses (Crumbs). Chicago Interior Decorating Co., Chicago, Ill.
Nurserymen. C. C. Allen & Co., New York. (cov)
Oats Cleaner. Thomas Whitefield, Chicago, Ill. (mon)
Organ Builders. Farnand & Votey Organ Co., New York. (mon)
Paint. F. W. Devoe & Co., New York. (cov)
Joseph Dixon Crumple Co., Jersey City, N. J.
H. W. Johns Mfg. Co., New York.
Fastest Lathery. Howson & Howson, Philadelphia. (cov)
Photography. J. W. Taylor, Chicago, Ill.
Pipe (Lead-Lined). New England Water Pipe Co., Walsfield, Mass. (cov)
Plumbers. T. H. Duggan, Boston.
Pumps (Steam). Watkins Refrigerator Co., New York and Boston.
Refrigerators. McKay Refrigerator and Cold Storage Co., Kew-Forest, Ind.
Watkins Refrigerator Co., New York, N. Y.
Roofing-Shutters. J. G. Wilson, New York.
Roofers. Berger Bros., Philadelphia, Pa.
John Farquhar's Sons, Boston.
James A. Miller & Bro., Chicago, Ill.
Roofing Materials. Thomas J. Hind, Boston.
Merchant & Co., Philadelphia, Pa. (cov)
H. E. Pitt Roofing Works, Boston.
Thorn Shingle and Ornament Co., Phila., Pa.

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th St.
NEW YORK CITY.

Designers and Manufacturers of...

MANTELS
OPEN FIREPLACES ..
GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 65 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

We invite Correspondence.
Send for Catalogues.

HEAD
OFFICE:

Gurney Heater Mfg. Co.

163 Franklin St., Cor.
Congress, Boston, Mass.

SELLING AGENCIES.

JOHNSON & Co., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHSEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

Endorsed by the leading
Architects and Engineers.



JAS. G. WILSON, Patentee and
74 West 23d St., New York. Manufacturer.



Rolling Steel Shutters.

Rolling Venetian Blinds.

Rolling Partitions.

English Venetian Blinds.



"THE WORLD'S FAIR EXTRA"
OF THE AMERICAN ARCHITECT.

Contains twenty gelatine prints of some of the Exhibition buildings and their details, already published in the International Edition. Five of these prints are double-page plates, the others being single-page.

For sale at this office. Price, \$3.50.

This "World's Fair Extra" will be sent free to new subscribers to the International Edition of the American Architect for 1894.

211 TREMONT ST., BOSTON.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen'l Agts.,

Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Masonry Materials.

PRIZE MEDALLISTS.

EXHIBITION OF 1893, 1894, 1897, 1898, 1899, AND ONLY AWARD AND MEDALS FOR SELF-COLLING STEEL SHUTTERS AT PHILADELPHIA 1876; PARIS, 1878; AND MELBOURNE, 1881.

CLARK, BUNNETT & CO. (Limited)

Late CLARK & COMPANY,

ORIGINAL INVENTORS AND SOLE PATENTERS OF NOISELESS

Self-Colling, Revolving **STEEL SHUTTERS** Fire & Burglar Proof.
Also Improved Rolling Wood Shutters, and Clark's Patent Metallic Venetian Blinds.

The BEST in the Market. Send for Catalogues, etc., to

162 and 164 West 27th St. - New York.

ALSEN'S PORTLAND CEMENT
(GERMAN.)

The Strongest, Finest Ground and Most Uniform Cement Made in the World.

The Largest Works and Greatest Production.

U. S. OFFICE, 143 Liberty Street, NEW YORK.

NJ. STEEL & IRON CO., TRENTON, N.J.

IRON AND STEEL BEAMS

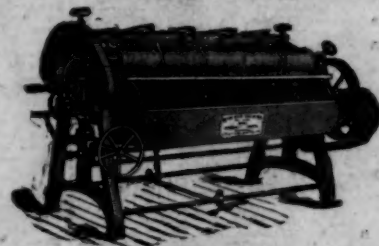
CHANNELS, ANGLES & TEES

COOPER, HEWITT & CO., NEW YORK.

TROY LAUNDRY MACHINERY CO., (LIMITED.)

FACTORIES: 642-650 Fulton St., Troy, N. Y.
325-405 Fifth Ave., Chicago, Ill.

SALESROOMS: 15 Warren St., New York.
281-283 Mission St., San Francisco, Cal.



Our line the largest and most complete in the world.

Send for Illustrated Catalogue Z.

80-Page Illustrated Catalogue of over 350 Designs of Superior
WEATHER VANS, TOWER ORNAMENTS, CHURCH CROSSES, FINIALS, Etc., Etc.
Mailed to any address for 3-cent stamp—half the postage.
T. W. JONES, Manufacturer,
170-172 FRONT ST., New York.

CONTINENTAL INSURANCE COMPANY, OF NEW YORK CITY.

Extract from statement made Jan. 1, 1894.
CASH CAPITAL - \$1,000,000.00
RESERVE for insurance in force, etc. 3,556,575.95
NET SURPLUS - 1,576,585.38
POLICY HOLDERS' SURPLUS - 2,576,585.38
GROSS ASSETS - 6,433,171.33

SAFETY FUND POLICIES ISSUED.
F. C. MOORE, President, HENRY EVANS, Vice-President,
EDWARD LANNING, Secretary, CYRUS PECK, Treasurer,
WM. A. HOLMAN, Asst. Sec. R. J. TAYLOR, Man'g'r Loss Dept.
46 Cedar Street, New York.

C. H. DUTCHER, Secretary Brooklyn Dept., Court and Montague Sts., Brooklyn, N.Y.; J. J. McDONALD, Gen'l Manager Western Dept.; GEO. E. KLINE, Asst. to Gen'l Manager, Rialto Building, Chicago, Ill.; W. S. DUVAL, Gen'l Manager Pacific Coast Dept.; F. C. BARKMAN, Asst. to Gen'l Manager, 321 Pine St., San Francisco, Cal.

RESPONSIBLE AGENTS WANTED.

THE AMERICAN ARCHITECT AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. XLV.—No. 978.]

SATURDAY, SEPTEMBER 22, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS.
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Ricker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE.
Louis De Coppet Berg.

PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

ARCHITECTURAL ATELIER.
MASQUERAY CHAMBERS.
123 East 23d Street, New York.
E. L. Masqueray. W. B. Chambers.
(Ecole des Beaux-Arts, Paris.) See page x.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.

COOPER INSTITUTE.
E. A. Miller.
E. F. Maurer.

INSTITUTE OF ARTIST-ARTISANS.
140 West 23d Street.
John Ward Schumson.

METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.
S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Truscott.

UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

[Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.]

CONSTRUCTION.

BERG, LOUIS D'G. Two Vols., each \$5.00
"Safe Building."
New York (66 Fifth Ave.): Macmillan & Co.

CHANDLER, F. W. \$10.00
"Construction Details."
Boston (211 Tremont St.): Heliotype Printing Co.

CLARK, T. M. \$3.00
"Building Superintendence." Outa.
New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts. \$2.00 each.
"Architectural Rendering in Pen and Ink."
Boston (211 Tremont St.).

WARE, WILLIAM R., PROFESSOR. \$5.00
"Modern Perspective."
New York (66 Fifth Ave.): Macmillan & Co.

WHITTIER MACHINE CO.,

ELEVATORS,

53 STATE STREET - - BOSTON.
93 LIBERTY STREET, NEW YORK.
526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD
For all kinds of
PASSENGER AND FREIGHT ELEVATOR SERVICE.

OTIS BROTHERS & CO.,
NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,
ELEVATOR AND MACHINE WORKS,
COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.

STEAM AND HYDRAULIC,
For Freight and Passenger use.

ELECTRIC ELEVATORS. THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,
For passenger and freight service.
Large experience. Many in use.
First cost moderate.
Running Expense much less than Hydraulic.
Also makers of low-speed Perret Electric Motors and Dynamos.

General office and factory, Springfield, Mass.
NEW YORK OFFICE, 126 Liberty Street.
BOSTON OFFICE, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES,
For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate. References, Principal Architects and Decorators of New York.
AESCHLIMANN & PELLARIN,
37 CLINTON PLACE,
Between Broadway and University Place, New York.

SANITARY CONDITION OF
DWELLINGS examined by T. H. DUGGAN,
Plumber, 141 DARTMOUTH STREET, BOSTON.
Fine Plumbing Materials, First-class Workmanship.
Telephone call, Tremont No. 165.

THE VERY BEST

Cement is the F. O. Norton Brand.

OFFICE, 92 BROADWAY, NEW YORK.

STANDARD ELEVATOR CO.,

HIGHEST GRADE

PASSENGER
AND
FREIGHT } ELEVATORS.

OFFICE AND WORKS,

15th Street and Ashland Ave.,
Chicago, Ill.

PENN ELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.
PASSENGER AND FREIGHT ELEVATORS,
every description.
See our new Electric and Hydraulic before purchasing.
Works, Bloomsburgh, Pa.
Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.
GENERAL OFFICE, PALMER, MASS.

We contract to perform all labor and furnish all material of the different classes required to build complete
CHURCHES, HOTELS, MILLS, PUBLIC
BUILDINGS AND RESIDENCES.

Also for the construction of
RAILROADS, DAMS AND BRIDGES.

We solicit correspondence with those wishing to place the construction of any proposed new work under ONE CONTRACT, which shall include all branches connected with the work. To such parties we will furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO.,

STAINED GLASS & DECORATIVE WORK.

Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.

Sole Agents for
CLAYTON & BELL, GLASS STAINERS, LONDON.
61 Washington Square, South, New York, N. Y.

TIFFANY GLASS & DECORATING COMPANY.

FURNISHERS OF GLASS WORKERS, DOMESTIC & ECCLESIASTICAL.

DECORATIONS. GD MEMORIALS.

333 TO 341 FIFTH AVENUE, NEW YORK.

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHERE & CO.),

Importers and Workers of

MARBLE, ONYX AND GRANITE,

425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

ROBERT C. FISHER & CO.,

Successors to FISHER & BIRD,

MARBLE AND GRANITE WORKS,

97, 99, 101 and 103 EAST HOUSTON STREET,

Established 1830.

NEW YORK.

PAINT cracks.—It often costs more to prepare a house for repainting that has been painted in the first place with cheap ready-mixed paints, than it would have painted it twice with strictly pure white lead, ground in pure linseed oil,

Strictly Pure White Lead

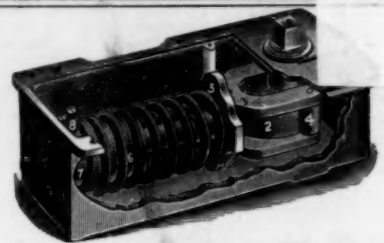
forms a permanent base for repainting and never has to be burned or scraped off on account of scaling or cracking. It is always smooth and clean. To be sure of getting strictly pure white lead, purchase any of the following brands:

- | | |
|-------------------------------------|--------------------------------------|
| "ANCHOR" (Cincinnati). | "JEWETT" (New York). |
| "ARMSTRONG & McKELVY" (Pittsburgh). | "KENTUCKY" (Louisville). |
| "ATLANTIC" (New York). | "JOHN T. LEWIS & BROS. CO." (Phila). |
| "BEYMER-BAUMAN" (Pittsburgh). | "MORLEY" (Cleveland). |
| "BRADLEY" (New York). | "MISSOURI" (St. Louis). |
| "BROOKLYN" (New York). | "RED SEAL" (St. Louis). |
| "COLLIER" (St. Louis). | "SALEM" (Salem, Mass.) |
| "CORNELL" (Buffalo). | "SHIPMAN" (Chicago). |
| "DAVIS-CHAMBERS" (Pittsburgh). | "SOUTHERN" (St. Louis and Chicago). |
| "ECKSTEIN" (Cincinnati). | "ULSTER" (New York). |
| "FAHNESTOCK" (Pittsburgh). | "UNION" (New York). |

For Colors.—National Lead Co.'s Pure White Lead Tinting Colors, a one-pound can to a 25-pound keg of Lead and mix your own paints. Saves time and annoyance in matching shades, and insures the best paint that it is possible to put on wood.

Send us a postal card and get our book on paints and color-card, free; it will probably save you a good many dollars.

NATIONAL LEAD CO., New York.



Checking Spring Hinges, For SWING DOORS.

APPLIED IN FLOOR UNDER DOOR. They close the door gently, without noise or violence and stop it at once at the centre. Doors can not sag. Springs do not break or set.

J. BARDSLEY,

149-151 Baxter St., - NEW YORK.

Illustrated Price-list on application.



Unequaled for all purposes for which Portland Cement is used. Tests and Testimonials of Engineers, and "How to Use Portland Cement," sent free on application. **BUCKEYE PORTLAND CEMENT CO.,** BELLEFONTAINE, OHIO.

RITCHIE'S PATENT IMPROVED CORRUGATED Expanding Conductor.

— ALSO —

Stamped Corrugated Elbows & Shoes.



A No. 3 SHOE.

In these goods the public find, for the first time satisfactory expanding Elbows and Shoes, perfect in curve and free from unreliable and unsightly soldered joints.

LAMB & RITCHIE, Cambridgeport, - - Mass.

GRAVES ELEVATORS

SAFETY, SPEED AND ECONOMY COMBINED

NEW YORK
92 & 104 LIBERTY ST.

BOSTON
53 STATE ST.

DETROIT
HODGES BUILDING.

ATLANTA, GA.
INMAN BUILDING.

GRAVES ELEVATOR CO.

ROCHESTER, N.Y.

SEND FOR CATALOGUE.

PORCELAIN LINED REFRIGERATORS and Cooling Rooms under the Wickes System. Mechanical Refrigeration under the Westinghouse System. **WICKES REFRIGERATOR COMPANY,** 860 Broadway, N. Y.

Drawing-Office.

Drawings rendered in line or color with reasonable despatch.

ADDRESS
Editors of the American Architect.

BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
<i>(Wholesale Prices.)</i>	<i>(Prices to Builders and Contractors.)</i>			
Foundation:				
Dimension.....	500 @ 5.00	400 @ 1.75	20 @ 2.00	Conshocken 145 @ 2.50
Block.....	50 @ 6.00	40 @ 1.75	20 @ 2.00	1 in. th. 10 @ 25
Rubble.....				37 @ 55
Bluestone: (P sq. ft.)				
Sidewalk.....	30 @ 5.00	40 @ 1.75	150 @ 2.00	
Planed.....	50 @ 6.00	40 @ 1.75	150 @ 2.00	
Sandstone:				
Longmeadow.....	80 @ 80	80 @ 90	45 @ 50	96 @ 1.05
Kibbe.....	90 @ 90	90 @ 1.10	45 @ 55	105 @ 1.25
Brown (Connecticut).....	100 @ 95	125 @ 1.45	55 @ 65	85 @ 75
Amherst Ohio.....	75 @ 1.00	90 @ 1.00	125 @ 1.25	55 @ 75
Berea.....	75 @ 1.00	85 @ 90		85 @ 95
Berlin.....	75 @ 1.00	80 @ 90		100 @ 1.10
Belleville.....	80 @ 1.25	25 @ 1.35		105 @ 1.15
New Brunswick (Dorchester).....	100 @ 1.00	75 @ 90		125 @ 1.35
Caen.....		1 @ 2.00	75 @ 1.00	95 @ 1.05
Carlisle, English.....	105 @ 1.05	1 @ 1.05	50 @ 1.00	95 @ 1.05
Corse Hill (Scotch).....	105 @ 1.05	1 @ 1.05		95 @ 1.05
Marble: (P cu. ft.)				
Leo, Mass.....		175 @ 2.50	Not Sold.	200 @ 2.50
Rutland, white and blue.....		300 @ 3.00	350 @ 6.00	200 @ 3.00
Sutherland Falls.....	125 @ 1.75	200 @ 2.00	350 @ 6.00	170 @ 3.00
Glens Falls, black.....			Not Sold.	400 @ 4.50
Italian, blue-veined.....			440 @ 4.40	250 @ 2.75
" Sienna.....			Not Sold.	500 @ 5.00
Tennessee, red.....			440 @ 4.40	400 @ 6.00
" Knoxville.....			440 @ 4.40	300 @ 4.00
Pennsylvania, blue.....			Not Sold.	200 @ 3.00
Vermont, white.....			350 @ 6.00	225 @ 3.00
Slate: Roofing (P square).				
" green.....	500 @ 6.00	475 @ 5.25	550 @ 6.10	290 @ 3.60
" unfading.....	500 @ 6.00	550 @ 6.50	650 @ 7.10	385 @ 4.35
" purple.....	500 @ 6.00	550 @ 6.50	650 @ 7.10	410 @ 5.10
" red.....	100 @ 10.00	100 @ 11.00	1200 @ 14.00	110 @ 10.85
" black, Lehigh.....	425 @ 4.75		625 @ 6.85	85 @ 4.60
" " Chapmans.....			730 @ 8.00	60 @ 5.25
" Unfading black, Brownville, Me. Monson.....	600 @ 8.50	600 @ 8.50	650 @ 9.50	720 @ 9.20
	550 @ 8.00	550 @ 8.00	600 @ 9.00	610 @ 8.60
Tiles, Am.....P M.....			Not Sold.	25 @ 25.00
N. Peach Bottom, warranted unfading.			800 @ 8.00	600 @ 7.35
Fire Clay Roofing Tile on cars at factory	800 @ 8.00	800 @ 8.00		860 @ 7.35
PAINTS. (In Oil P lb.)				
White lead, Am.....	7 @ 74	6 @ 64	7 @ 74	7 @ 74
zinc.....	5 @ 84	6 @ 84	5 @ 104	5 @ 74
Red lead, Am.....	64 @ 7	6 @ 64	64 @ 7	64 @ 7
" Venetian.....	6 @ 104	7 @ 12	11 @ 24	dry Eng. 7
" Vermillion.....	65 @ 70	60 @ 65 dry	65 @ 68	Eng. 76
" Indian, Eng.....	12 @ 20	12 @ 20	12 @ 20	dry Am. 14
Yellow Ochre.....	6 @ 15	7 @ 12	3 @ 15	18 @ 21
" Chrome.....	12 @ 20	18 @ 25	15 @ 25	" 15 @ 20
Green (chrome).....	8 @ 13	8 @ 20	8 @ 20	8 @ 12
Green, Paris.....	25 @ 40	25 @ 30	18 @ 35	10 @ 24
Black, lamp.....	15 @ 25	15 @ 25	8 @ 30	60 @ 50
Blue, ultramarine.....	12 @ 18	18 @ 30	12 @ 35	60 @ 63
Oil, linseed, (raw).....	55 @ 62	53 @ 55	57 @ 60	40 @ 42
" boiled.....	58 @ 65	56 @ 58	60 @ 63	125 @ 300
Turpentine.....	36 @ 37	36 @ 36	40 @ 42	150 @ 300
Varnish, coach.....		150 @ 600	125 @ 200	2 @ 24
Shellac.....		250 @ 300	225 @ 400	1 @ 14
Putty.....	2 @ 4	2 @ 4	2 @ 4	1 @ 14
Whiting.....	75 @ 100	1 @ 1	1 @ 1	1 @ 1
Paris white, (Eng.).....	136 @ 200	1 @ 2	1 @ 2	1 @ 1
Litharge, Am.....	64 @ 6	6 @ 64	6 @ 7	4 @ 14
Sienna (burnt).....	14 @ 20	14 @ 20	4 @ 16	2 @ 13
Umber.....	14 @ 20	14 @ 20	2 @ 10	
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought.)	2 @ 25		235 @ 350	per keg 225
10d. common.....	2 @ 20	2 @ 20	170 @ 170	2 @ 20
Shingle.....	3 @ 35	2 @ 240	210 @ 210	2 @ 20
Lath.....	4 @ 85	3 @ 310	280 @ 280	360 @ 475
(Finishing nails according to size.)			Add .60 to \$1.90	per lb 4 @ 6
(For casing nails add 75 c. per keg.)			" .40 to .50	Add per cask 290 (all kinds.)
Butts: 4" x 4".....(P doz. pairs.)				
Plain.....	1 @ 100	85 @ 85	90 @ 90	135 @ 200
Japanned.....	1 @ 150	125 @ 125	Not Sold.	135 @ 200
Acorn, Japanned.....	1 @ 150	150 @ 150	200 @ 375	135 @ 200
Bail Tip, Boston Finish.....(P pair.)	65 @ 65		Not Sold.	48 @ 50
Bronze metal.....	1 @ 190	plain 125	200 @ 325	1 @ 125
Brass (for cupboards).....	10 @ 10	10 @ 10	12 @ 12	1 @ 100
Ebony.....				35 @ 35
Apple wood.....				37 @ 100
Knobs: (P set.)				
Mineral, best.....	8 @ 8	8 @ 8	8 @ 10	8 @ 8
Lava.....	50 @ 50	75 @ 75	25 @ 80	Not Sold.
Hemacite.....	Not Sold.	17 @ 33	25 @ 30	25 @ 50
Porcelain.....	30 @ 30	10 @ 10	Not Sold.	25 @ 25
Glass, solid.....	Not Sold.	88 @ 100	50 @ 150	100 @ 250
Glass, silvered.....	Not Sold.	50 @ 200	50 @ 300	175 @ 200
Bronze metal.....	75 @ 250	50 @ 300	100 @ 300	50 @ 350
Brass.....	100 @ 250	50 @ 300	14 @ 16	75 @ 125
Ebony.....			14 @ 16	124 @ 16
Apple wood.....			54 @ 7	6 @ 6
Solder:				
Sheet Lead.....		64 @ 64	54 @ 6	
Lead Pipe.....		54 @ 54		
Iron:				
I-Beams, up to and including 30 ft.....	33-10 @ 34	250 @ 250	250 @ 275	@ 26-10
do. over 30 ft., 1 c. adv. for every 5 ft.	@ 34	@ 250	50 @ 275	@ 26-10
Channel Beams.....	33-10 @ 34	@ 250		@ 26-10

FOR INFORMATION ABOUT
U. S. MAIL CHUTES
WHICH ARE
A necessity in Office Buildings and Hotels,
write to the sole makers,
THE CUTLER MFG. CO., ROCHESTER, N. Y.
PATENTED. AUTHORIZED.



NATIONAL
Fine Art Foundry,
218 East 25th Street, New York.
Artists' Models cast in Standard Bronze
Architects' Designs Executed.
Artistic and Enduring Monuments
in Granite and Bronze.
No Catalogues.
MAURICE J. POWER.

MARKS' ARTIFICIAL LIMBS.
WITH RUBBER HANDS AND FEET,
The most comfortable, durable and natural.



Although a man may lose both of his legs he is not necessarily helpless. By having artificial legs applied, with rubber feet attached, he can be restored to his usefulness.
The engraving is from an instantaneous photograph of a man ascending a ladder; he has two artificial legs substituting his natural ones, which were crushed by a railroad accident and amputated. With his rubber feet he can ascend or descend a ladder, balance himself on the rungs, and have his hands at liberty. He can work at a bench and earn a good days wages. He can walk and mingle with persons without betraying his loss; in fact, he is restored to his former self for all practical purposes.
With the old method of complicated ankle-joints these results could not be so thoroughly attained.
Fifteen thousand in use, scattered in all parts of the world. Many of these have been supplied without presenting themselves to the maker, simply by sending measurements on a formula which any one can easily fill out.

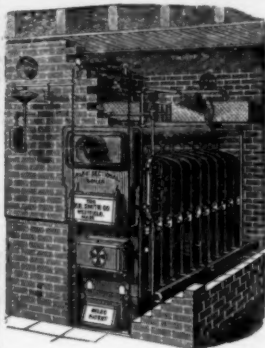
RECEIVED THE HIGHEST AWARD AT
WORLD'S COLUMBIAN EXPOSITION.
Indorsed and purchased by the U. S. Government.
A treatise of 430 pages and formula for measuring SENT FREE.

A. A. MARKS,
701 Broadway, NEW YORK CITY.
[Established 41 Years.]

CAS LIGHT
FOR Churches, Theatres, &c.
Send for cuts and prices.
Fair discount to churches and the trade.
New Sun Burner.
H. C. CHARLES & CO., 53 Dearborn St., CHICAGO.

The Great CHURCH LIGHT
Prink's Patent Reflectors for Gas, Oil, or Electric, give the most powerful, safest, cheapest, and best light known for Churches, Stores, Banks, Theatres, Depots, etc. New and elegant designs. Send size of room. Get circular & estimate. A liberal discount to churches & the trade. Don't be deceived by cheap imitations.
I. P. FRINK, 51 Pearl St., N.Y.

Conservatories, GREENHOUSES, VINERIES,
Shipped to any part of the country, and erected complete, ready for use.
Plans embrace the latest improvements.
Unequalled facilities for manufacturing. Thirty-five years' experience. Catalogue sent on application.
Address, stating requirements,
LORD & BURNHAM COMPANY,
IRVINGTON-ON-HUDSON, N. Y.



Gold's Boiler.

The H. B. SMITH CO.,
MANUFACTURERS OF
HEATING APPARATUS
Steam and Water

For Public Buildings and Private Residences.

SPECIALTIES:
GOLD'S Improved Sectional Boilers.
MILLS'S Safety Sectional Boilers.
MERCER'S Patent Improved Sectional Boilers.
REED'S Improved Cast-Iron Radiators,
"THE UNION" Hot-Water Radiators.
BRECKENRIDGE'S Patent Automatic Air Valves.
GOLD'S Indirect Pin Radiators.

Office & Warerooms, 137 Center Street, New York.
Foundry, Westfield, Mass. Catalogues sent on application.



SPENCE
(TRADE MARK)

HOUSE HEATING
BY
Steam and Hot Water.

The ARCHITECT, STEAMFITTER and PLUMBER,

All seem to be of one accord, and give our line of Heaters their approval, because they are

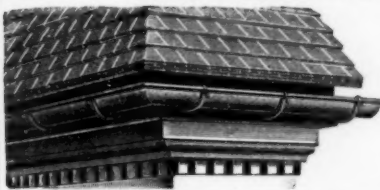
SIMPLE IN CONSTRUCTION, ECONOMICAL IN OPERATION,
POWERFUL AND RAPID IN PERFORMING THEIR WORK.

Write for Price Lists.

American Boiler Company

BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
195 Ft. Hill Sq. 94 Center St. 84 Lake St. 127 5th St.

NOTICE TO ARCHITECTS.



This cut shows the additional width, strength and beauty of an eave finished with a hanging, expanding Gutter hung with

"Berger's Favorite Hangers,"
now superseding every other device.

BERGER BROS.,
237 Arch Street, - PHILADELPHIA.

DIXON'S GRAPHITE PAINT

FOR TIN OR SHINGLE ROOFS AND IRON WORK. IT IS ABSOLUTELY WITHOUT AN EQUAL.

Tin roofs well painted have not required repainting for 10 to 15 years.

If you need any paint it will pay you to send for circular.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

BUILDING MATERIALS.

Reported for the American Architect and Building News.

	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
LUMBER. — P. M.				
Boards: (Ordinary dimensions.)				
Pine, 1st quality, clear	65 00 @ 75 00	55 00 @ 70 00	42 00 @ 50 00	48 00 @ 55 00
" 2d quality	55 00 @ 60 00	42 00 @ 50 00	27 00 @ 38 00	40 00 @ 45 00
" 3d quality	18 00 @ 22 00	20 00 @ 40 00	14 00 @ 20 00	30 00 @ 35 00
Spruce	25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock	25 00	11 00 @ 15 00	12 00 @ 13 00	11 25 @ 13 50
Yellow pine	25 00	19 00 @ 35 00	21 00 @ 34 00	14 00 @ 29 00
Cypress	25 00	28 00 @ 40 00	18 00 @ 34 00	14 00 @ 35 00
Clapboards:				
Pine	38 00 @ 55 00	38 00 @ 55 00	19 00 @ 22 50	14 00 @ 25 00
Spruce	23 00 @ 35 00	23 00 @ 35 00	Not sold.	Not sold.
Framing Timber:				
Pine	14 00 @ 18 00	13 00 @ 17 00	12 00 @ 17 50	25 00 @ 37 30
Spruce	12 00 @ 16 00	12 00 @ 15 00	Not sold.	16 00 @ 18
Hemlock	18 00 @ 21 00	20 00 @ 35 00	10 00 @ 13 00	13 00 @ 17
Yellow pine			24 00 @ 34 00	22 00 @ 28
Laths:				
Pine	Slab	2 25 @ 2 50	@ 2 40	2 75 @ 3
Spruce	1 65 @ 1 75	2 00 @ 2 50	Not sold.	2 30 @ 2 35
Shingles:				
Pine, shaved	5 00 @ 6 00	@ 4 50	Not sold.	
Pine, sawed	4 00 @ 5 00	@ 4 50	2 25 @ 2 50	
Spruce, sawed	1 50 @ 2 00	1 50 @ 2 00	Not sold.	
Redwood	1 40 @ 1 60	3 25 @ 3 75	6 00 @ 7 50	
Cedar split	@ 1 25	@	Not sold.	
Cedar sawed	@	2 00 @ 3 50	2 60 @ 2 75	
Cypress, Split	18 00 @ 20 00	5 00 @ 6 00	3 50 @ 4 00	
Miscellaneous:				
Piles	4 1/2 @ 5 1/2	Piles 6c. P. ft.	Cut to order.	
Fence pickets, Common	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 22 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts.)	@	25 @ 50	9 @ 21	40 @ 1 50
Chestnut posts	@	25 @ 50	Not sold.	20 @ 30
Finishing Woods: P. M. (First)				
Ash	@ 55 00	45 00 @ 60 00	14 00 @ 30 00	42 50 @ 55 00
Cherry	80 00 @ 120 00	90 00 @ 120 00	35 00 @ 90 00	100 00 @ 120 00
Butternut	40 00 @ 60 00	60 00 @ 70 00	17 00 @ 35 00	70 00 @ 80 00
Hard-pine floors (rift)	@ 180 00	160 00 @ 170 00	110 00 @ 170 00	150 00 @ 250 00
Mahogany, Baywood [Mexican]	@ 350 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
" St. Domingo	45 00 @ 50 00	45 00 @ 50 00	12 00 @ 20 00	25 00 @ 55 00
Maple	@ 70 00	40 00 @ 50 00	17 00 @ 27 00	42 50 @ 55 00
Oak, red	@ 70 00	45 00 @ 55 00	16 00 @ 28 00	45 00 @ 55 00
" white	@ 90 00	65 00 @ 75 00	34 00 @ 40 00	60 00 @ 75 00
" quartered		50 00 @ 65 00	25 00 @ 28 00	50 00 @ 65 00
Sycamore quartered		50 00 @ 75 00	33 00 @ 50 00	@ 65 00
Pine, clear	65 00 @ 70 00	50 00 @ 70 00	40 00 @ 45 00	60 00 @ 75 00
Redwood	60 00 @ 70 00	50 00 @ 70 00		
Rosewood	@ 6		per M. 000 00	
Spruce floors clear, (kiln-dried)		30 00 @ 35 00		
Walnut, black	125 00 @ 150 00	85 00 @ 120 00	40 00 @ 75 00	50 00 @ 170 00
Whitewood	45 00 @ 50 00	35 00 @ 45 00	14 00 @ 30 00	25 00 @ 40 00
Yellow pine	@ 45 00	40 00 @ 42 00	31 00 @ 34 00	@ 45 00

CLINTON WIRE-CLOTH CO.,

Sole Proprietors and Manufacturers of

WIRE LATH

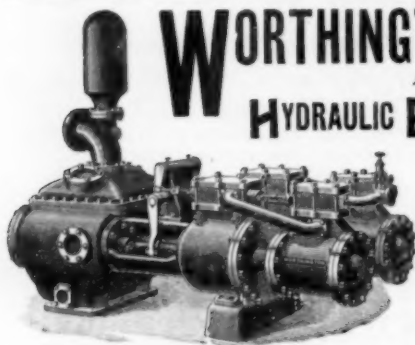
DOUBLE TWIST WARP
STIFFENED (Iron furred)
CLINTON CORRUGAT'D

Plain, Japanned or Galvanized.

The Most Perfect and Economic System of FIREPROOF Construction.

SEND FOR CIRCULAR.

BOSTON, NEW YORK, CHICAGO, FACTORY,
199 Washington St. 76 Beekman St. 137 Lake St. CLINTON, MASS.



WORTHINGTON STEAM PUMPS

ARE THE STANDARD FOR

HYDRAULIC ELEVATOR AND HOUSE SERVICE.

Send for New Illustrated Catalogue.

Henry R. Worthington,

NEW YORK, 86 & 88 Liberty St.
BOSTON, 70 Kilby St.
PHILADELPHIA, 607 Arch St.
CLEVELAND, 24 South Water St.
CHICAGO, 185 to 189 Van Buren St.
ST. LOUIS, Eighth & St. Charles Sts.



A BOON TO ARCHITECTS AND BUILDERS.
THE MORSE PATENT WALL TIE.

Made from 3-16 in. galvanized steel wire; thickness where ends cross 1-4 in.
Secures Hollow Walls, Brick Facings, Terra Cotta, Etc.
Also made from 3-32 and 1-8 wire.

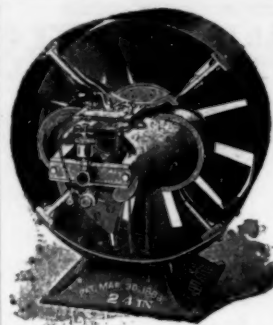
CHEAP, STRONG, RELIABLE.

Adopted by more than 400 Architects and Builders the past three seasons.
Write for samples, circulars, etc.

J. B. PRESCOTT & SON, Sole Mfrs., Webster, Mass.

New York Office,
62 Reade St.

BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
BRICK.—P. M.				
Common: Cargo afloat.				
Pale.	1 50 @ 1 75			
Jersey.	3 75 @ 4 25			
Long Island.	@			
Up River.	3 75 @ 4 50			
Haverstraw Bay 2d.	4 00 @ 4 25			
" 1st.	4 37 1/2 @ 4 70			
Hollow.	@ 13 00			
Fronts:				
Croton, Brown.	9 00 @ 12 00			
" dark.	10 00 @ 13 00			
" red.	10 00 @ 13 00			
Chicago pressed (Anderson).				
" Moulded.				
Baltimore.	37 00 @ 41 00			
Philadelphia.	22 00 @ 23 00			
Trenton.	@ 19 00			
Milwaukee.				
Moulded:				
Glens Falls Red Pressed.	@ 37 00			
" " Buff.	@ 30 00			
" " Moulded Red & Buff.	45 00 @ 70 00			
Enamelled: Imp.				
Enamelled (edge).	85 00 @ 100 00			
Enamelled (edge and end).	90 00 @ 115 00			
CEMENT, LIME, etc.—(P. cash.)				
Roseville Cement.	80 @ 90			
Louisville.		1 15 @ 1 25		
Utica, Akron, Buffalo, Milwaukee.	Not sold.	Brooks, S. & Co.		
Portland, English (Gibbs).	2 25 @ 2 50	2 40 @ 2 75		
" " (K. B. & S.).	2 50 @ 3 00	2 40 @ 2 75		
" " (Burnham).	2 25 @ 2 50	2 40 @ 2 75		
" " (White's).	2 50 @ 3 00	2 40 @ 2 75		
" French (Lafarge).	3 60 @ 3 75	@ 5 00		
" German (Alsen).	2 90 @ 3 25	3 00 @ 3 50		
" " (Fowler).	2 25 @ 2 40			
" " (Vorwöhler).	2 50 @ 2 90			
" " (Lagerdofer).	@	2 40 @ 2 75		
" " (Dyckerhoff).	2 60 @ 2 90	3 00 @ 3 50		
" " (Hancock).	2 50 @ 3 00	Not sold.		
" " Stettin (Anchor).	2 25 @ 2 85	" "		
" American (Saylor's).	2 15 @ 2 25	" "		
Roman.	2 75 @ 3 00	@ 3 50		
Keene's coarse.	4 50 @ 5 30	@ 6 00		
" superfine.	5 00 @ 5 50	7 00 @ 9 00		
Lime:				
Lime of Tell.	3 50 @ 4 00			
Hydraulic Lime.	@ 1 45			
Chicago Lime in bulk.	St. John @ 85	St. John @ 90		
Wisconsin Lime.	@ 85	@ 95		
Rockland and Rockport, (Com.).	@ 1 00	@ 1 00		
Rockland and Rockport, (Finch).	@	@		
Kelley Island Lime, (Finch).	@ 80	Not sold.		
State, com. cargo rates (nom.).	1 05 @ 1 10	Not sold.		
Plaster of Paris (calcined).	1 40 @ 1 50	1 85 @ 2 00		
" (casting).	@ 1 00	@ 2 25		
Hair (Cattle) & bush.	18 @ 21	25 @ 30		
" (Goat).	21 @ 25	@ 30		
Sand, & load.	1 00 @ 1 25	1 75 @ 1 90		
STONE. (P. cubic foot, rough.)				
Granite: (Maine)		@ 60		
Limestone:				
Bedford.	45 @ 1 25	95 @ 1 00		
Joliet.	1 00			
Lemont.				
Serpentine.		10 50 per ton		



KEEP
BY
THE SMITH
VENTILATING
FAN.

KEEP WARM
BY USING
THE SMITH
HOT BLAST
APPARATUS.

Both Manufactured by

THE HUYETT & SMITH MFG. COMPANY,

Heating and Ventilating Engineers,
DETROIT, MICH.

Write for Catalogue, mentioning this paper.

McCRAE REFRIGERATOR AND COLD STORAGE CO.,

Cooling Rooms for public Institutions, Hotels,
Fine Residences, Groceries, and
Meat Markets.

KENDALLVILLE, IND.

CHICAGO OFFICE: 42-157 Washington St.

CATALOGUE

FOR 1894 OF
Architectural Books.

SEND FOR CLEARANCE CIRCULAR.

WM. T. COMSTOCK, Pub., 23 Warren St., N. Y.



NEW ENGLAND FELT ROOFING WORKS,

22 MILK ST., BOSTON.

ESTABLISHED
1852.

Incorporated
1891.

Capital—\$80,000.

LEVI L. WILLIAMS, Pres't

EPH. C. DAVIS, Treas'r

Originators of Felt Roofing in New England.

Inventors and only Manufacturers of the Celebrated

"BEEHIVE BRAND."

BURDITT & WILLIAMS,

Representatives of Leading Manufacturers of

BUILDERS' HARDWARE.

Refer to the prominent Architects of Boston, New York and Washington, as well as to many of the finest Public Buildings and Residences in all parts of the United States.

Branch Office, 20 Dock Square, WASHINGTON, D. C.

Heliotype Printing Co.,

211 Tremont Street, Boston.

ESTABLISHED 1872.

- PHOTO-LITHOGRAPH.
- PHOTO-COLOR-LITHOGRAPH.
- PHOTO-GELATINE.
- PHOTO-GRAVURE.
- PHOTO-ENGRAVING.

COPIES OF ARCHITECTURAL,
MECHANICAL AND OTHER
DRAWINGS, MAPS, PLANS, ETC.,
PORTRAITS, VIEWS AND ALL
BOOK ILLUSTRATIONS.

Heliotype Printing Co.

CABOT'S CREOSOTE SHINGLE STAINS



Loring & Phipps Arch'ts Boston



SUMMER COTTAGE
THOUSAND ISLANDS
Phipps & Loring

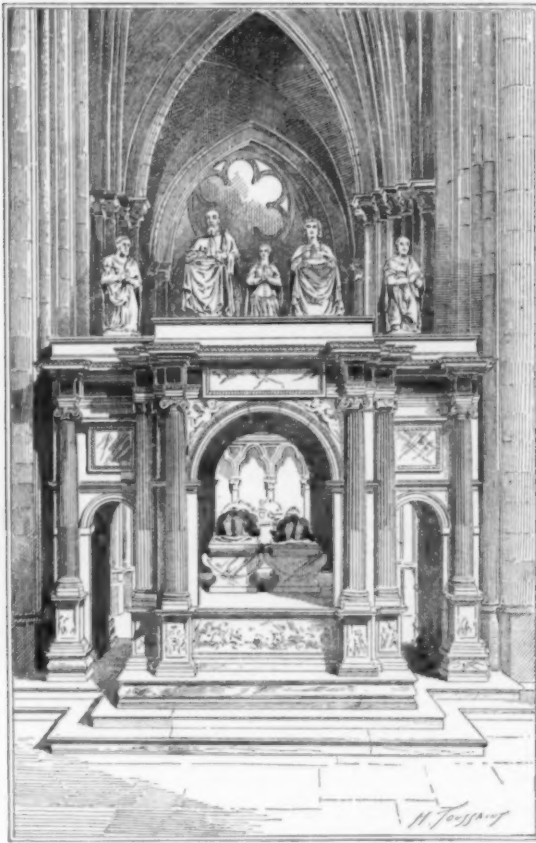


Don't specify paint for shingles; it isn't artistic. Don't specify a Stain that will turn black in a few years, because it looks dirty and you have to paint it over to change the color. Specify a stain that will hold its color and grow old gracefully—like Cabot's, which was the first shingle stain ever made, and is now, as always, first in durability, first in economy, and first in favor with those who have used it. *Every gallon guaranteed.*

Large or small wood samples, circulars and water-color reproductions of color schemes, sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

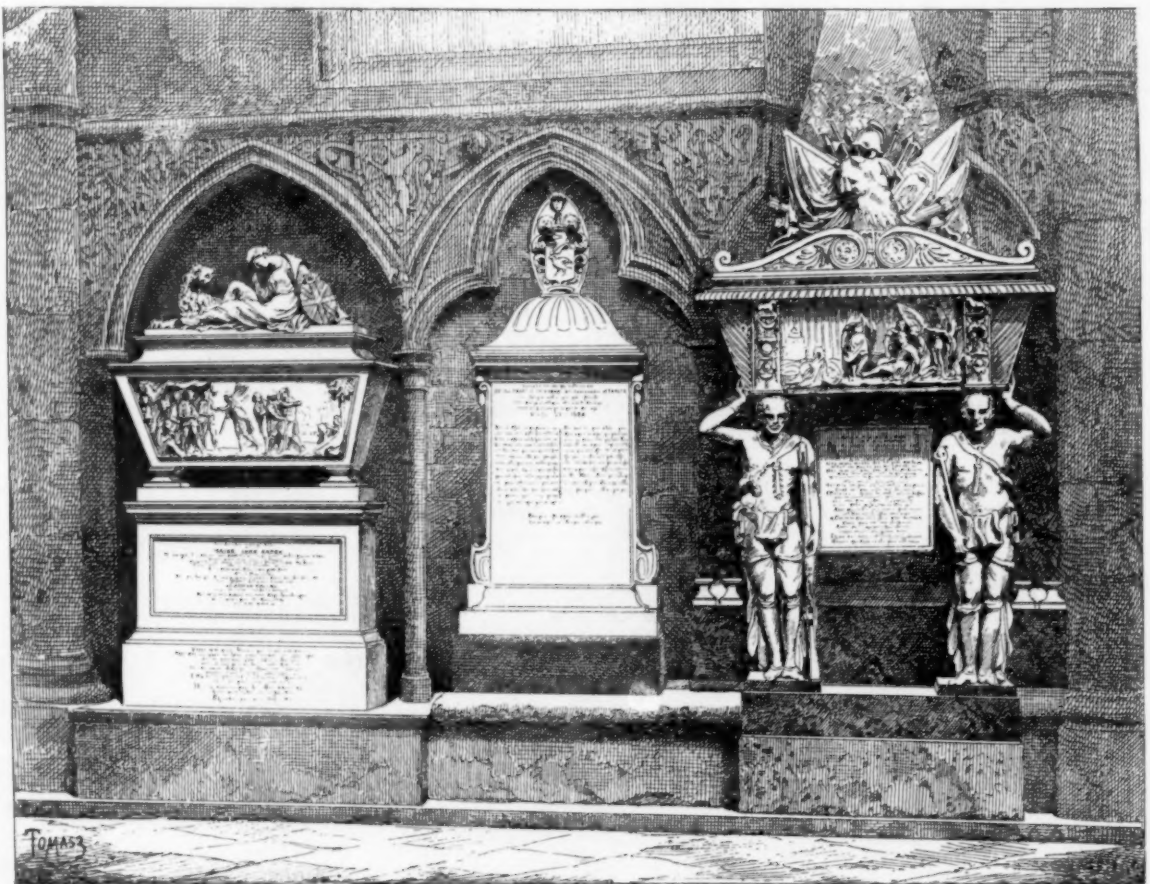
Agents at all Central Points. **70 Kilby St., BOSTON, MASS.**



Tomb of François I, St. Denis, France.



Monument to Ingres, Montauban, France.



Tombs in Westminster Abbey, London, England.

TOMBS.

OKONITE INSULATED ELECTRIC LIGHT WIRES.



TRADE MARK.
WILLARD L. CANDEE,
H. DURANT CHEEVER, } Managers.
GEO. T. MANSON, Gen'l Supt.
W. H. HODGINS, Sec'y.

The Okonite Wire is pronounced by Architects to be a SAFE, DURABLE and EASILY ADJUSTED WIRE, for the INSIDE WIRING of PUBLIC and PRIVATE BUILDINGS.

AWARDED A GOLD MEDAL AT THE PARIS EXPOSITION.

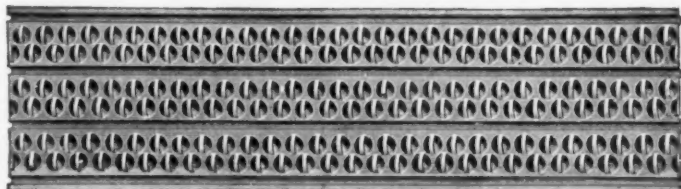
BRANCHES: Boston, Philadelphia, Chicago, Omaha, Cincinnati, Minneapolis, San Francisco, Louisville, St. Louis, Kansas City, South America, London.

THE OKONITE COMPANY, L'TD,
13 Park Row, New York.

Send for Catalogue and Prices.



"Piqua" Steel Lath.



"Piqua" Lath is made from the best quality of steel, in sheets $27\frac{1}{4} \times 48$ inches, and each sheet covers exactly one square yard of surface. The corrugations shown in cut are $3\frac{1}{4}$ inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.



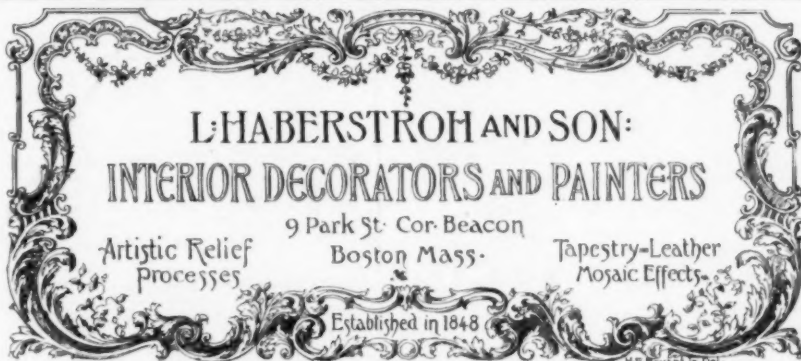
Steel Plastering Lath.

Superior to wood or any other lathing material. Strength, durability and economy secured at once. The fire risk reduced to a minimum. Made of

Expanded Metal

No contraction or expansion, consequently no cracks or falling plaster. Easily applied without stretching or furring, making perfect key and solid work. Write for illustrated Catalogue No. 29, containing valuable facts about the various uses of expanded metal.

CENTRAL EXPANDED METAL CO
631 WOOD STREET, PITTSBURG, PA.



L. HABERSTROH AND SON: INTERIOR DECORATORS AND PAINTERS

Artistic Relief
Processes

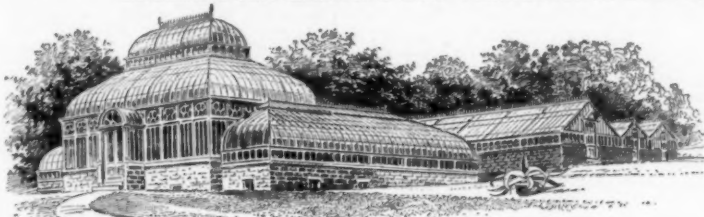
9 Park St. Cor. Beacon
Boston Mass.

Tapestry-Leather
Mosaic Effects.

Established in 1848

HITCHINGS & CO., Established 50 years.

HORTICULTURAL ARCHITECTS AND BUILDERS
and largest Manufacturers of
GREENHOUSE HEATING AND VENTILATING APPARATUS.



The highest awards received at the World's Fair for Horticultural Architecture, Greenhouse Construction and Heating Apparatus. Conservatories, Greenhouses, Palmhouses, etc., erected complete with our Patent Iron Frame Construction.

Send four cents for Illustrated Catalogues.

233 MERCER STREET, N. Y. CITY.



Manufacturers of

"CHAMBERS EAGLE BRAND"

Window Glass

1st Quality.



2d Quality.



3d Quality.



26oz. CRYSTAL SHEET.

This Glass is almost equal to Polished Plate,
And less expensive.

Packed with paper between each light
to prevent scratches.

SEND FOR PRICE LISTS.

CHAMBERS GLASS CO.

New Kensington, Pa.

Branch Office:
1442 Monadnock Block,
CHICAGO, ILL.



BROUGHTON'S

PATENT

SELF CLOSING

BASIN COCK

EVERY ONE
WARRANTED

Send for Circulars.

Stebbins Manufacturing Co., Brightwood,
Mass.
SOLE MANUFACTURERS.

SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.

Slate, Copper, Tin and Gravel Roofing.

Nos. 20 and 22 EAST STREET, BOSTON.

Order Box at Master Builders Association,
164 Devonshire Street.Special attention given to Repairs
of all kinds.

Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs, acknowledged to be the strongest method in use, and has been applied to many of the best constructed and largest buildings in this country.

Contracts made for Work wherever desired.

ASPHALT ROOFING AND PAVING MATERIALS.

WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.

Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO. 81 & 83 Fulton Street, NEW YORK, U. S. A.

Send
for
Samples.

SAMSON SPOT CORD

You can tell at a glance that no other cord is substituted. It is warranted to be of pure Cotton, smooth finish and perfect braid.

Samson Cordage Works, Boston, Mass.



HEATING A HOSPITAL WARD

(Especially private and isolated wards) can be thoroughly and economically effected by the Jackson Ventilating Grates.

Send for Catalogue B.

EDWIN A. JACKSON & BRO., 50 Beekman St., New York.



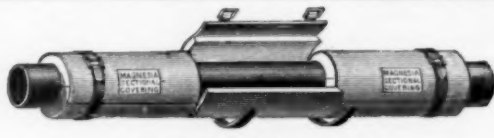
YALE LOCKS

BLACKCROSS PORTLAND CEMENT

IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,

IMPORTERS ROMAN, KEENE'S, VICAT CEMENTS, 23 Liberty Street, NEW YORK.



Absolutely Fire-proof.



MAGNESIA



SECTIONAL

STEAM PIPE AND BOILER COVERINGS.

THE GREAT COAL-SAVER.

MANUFACTURED BY

The Keasbey & Mattison Company,

CINCINNATI:

AMBLER,

CLEVELAND:

114 West Second St.

PA.

117 Water St.

SELLING AGENTS:

Boston, S. C. Nightingale & Childs, 134 Pearl St.
New York, Robert A. Keasbey, 51 Warren St.
Philadelphia, Macan & Co., 1420 Callowhill St.
Baltimore, Wallace & Bro., 432 E. Pratt St.
Washington, Wm. B. Morgan, Builders' Ex'c.
New Orleans, Delbert Engineering Co., 23 Union St.
Memphis, Symmes & Co., 192 Front St.

Milwaukee, F. Sprinkman, 133 Sycamore St.
Louisville, W. W. Hite & Co., 176 Fourth St.
St. Louis, F. Boeler, 108 Walnut St.
Detroit, S. P. Conkling, 20 Atwater St., East.
Denver, C. W. Badgley & Co., 18th & Market Sts.
Salt Lake City, Utah & Montana Machinery Co.
Butte City, Mont., R. W. James.
San Francisco, DeSolla & Deussing, 2 California St.



The only Rubber Insulation Awarded Medal at World's Fair, Chicago, U. S. A., 1893.

High Grade Insulated Wires for Interior Use

Electric Light Wires and Feeders.

Kerite Tape.

WRITE FOR CATALOGUE.

Kerite Elastic Tape.

W. R. BRIXEY, Manufacturer, 203 Broadway, NEW YORK.

ASPHALT FLOORS, ROOFS,

SIDEWALKS AND CARRIAGE-WAYS

Of Public Buildings, Hospitals, Warehouses, Stables, Cellars, etc.

Laid with VAL de TRAVERS ROCK ASPHALT,

DURABLE, FIREPROOF AND IMPERVIOUS.

For estimates and list of works executed, apply to

THE NEUCHATEL ASPHALT CO., Limited,

265 BROADWAY. - - - NEW YORK.

Brown's Patent Seamless DRAWN COPPER HOUSE BOILERS.

Cannot collapse.

Will not leak.

Ordinary boiler tested to 200 lbs.

Extra heavy tested to 300 lbs.

Made of two seamless drawn copper shells.

Handsome, best and strongest in the market.

Send for circular giving instructions for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES,
Waterbury, Conn.

Western Depot: 71 West Washington St., Chicago. Branch Offices: 104 John St., New York; Room 320 Philadelphia Bank Building, Philadelphia; 99 Milk St., Boston; Room 208, Neave Building, Cincinnati.

Proprietors of the Brown & Bros. Tubing and Boiler Works, and the Brown & Bros. Brass and Copper Rolling Mills.

Makers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

THE JENKINS AUTOMATIC AIR VALVE

Has proved to be all we claimed for it—i. e., a Positive and Reliable Air Valve. The expandable plug is a special compound, and manufactured expressly for use in the Jenkins' Automatic Air Valve. It does not deteriorate or lose its flexibility under the action of heat or steam. With the Jenkins' Automatic Air Valve, you should connect with a drip pipe, thus insuring a positive circulation. We guarantee them to be as represented. Our Trade Mark is on every valve.



JENKINS BROTHERS,

New York, Boston, Chicago, Philadelphia.

Chicago Interior Decorating Co.

Bank, Office & Club Equipments.

Mantels, Tiles, Ceramic Mosaics
FINE SPECIAL FURNITURE.

Highest grade of first class goods.

Drawings and Estimates furnished upon application.

149 & 150 Michigan Ave., Chicago, Ill.

Formerly occupied by the Henry Dibblee Co.

BLAKE BELL CO.

Successors to Wm. Blake & Co.

Bell Founders and Brass Finishers.

Castings in any metal except iron.

Monumental Tablets, Artistic Brass Work.

Allen and Brighton Sts., BOSTON.



J.W. TAYLOR'S PHOTOGRAPH SERIES.

151 MONROE ST. CHICAGO. 1 OF AMERICAN ARCHITECTURE.

Removed to Owings Building.

Send two 5 cent stamps for Catalogue.

PARQUET FLOORS.

The National Wood Manufacturing Co.,

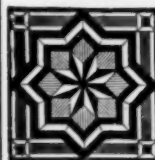
129 5th Avenue, New York.

WAINSCOTINGS AND CEILINGS.

Inlaid Wood Floors 5-16 and 7-8 inch thick.

Solid work, Tongued and Grooved in each piece.

Designs & Estimates on application. Established 1867.



POINTS ON VARNISH.

NO. 272.—TO THE YOUNG AND UNKNOWN ARCHITECT.

Dear Friend:

Of course you are supposed to have complete knowledge of the relative values of all materials used in building, just as your older and more famous brethren of the profession have; but, candidly now, have you made a practical study of this varnish problem? Do you appreciate the fine points of difference between architectural varnish and carriage varnish—car varnish—piano varnish—furniture varnish? Have you noted the results of this and that make of architectural varnish until you perfectly understand what brands can be trusted for wear and polish? Or, do you simply know of a few great firms whose varnishes are considered first-class, and do you secretly confess that the painter, perhaps, knows a great deal more about the varnishes themselves than you do? If this be the case, it is not strange that you fail to specify clearly and positively; that you are indifferent to the matter and leave the selection of goods to the painter. Allow us to suggest that the history of T. W. F. is worth studying.

MURPHY VARNISH CO.

FRANKLIN MURPHY, President.

Head Office: Newark, N. J.
Other Offices: Boston, Cleveland, St. Louis, Chicago.
Factories: Newark and Chicago.

TO ARCHITECTS:

If you desire to recommend a firm as one thoroughly capable of supplying *complete* furnishings for a hotel, club-house or private residence, you can mention us *with confidence*.

We supply CARPETS, RUGS, UPHOLSTERY FABRICS, FURNITURE, ETC., ETC.

Our goods are right; our prices are right.

We make a specialty of *private and exclusive patterns* which cannot be duplicated elsewhere.

John H. Pray, Sons & Co.,

658 Washington Street,
Opposite Boylston Street,
BOSTON.

F. W. DEVOE & CO.

(Established 1852.)

Fulton St., cor. William, New York.
No. 176 Randolph St., Chicago.

Pure Ready-mixed Paints.

We desire to call attention of consumers to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fireproof." We use no secret or patent method in manufacturing them by which benzine and water are made to serve the purpose of pure linseed oil.

Sample cards, containing fifty desirable shades sent on application.

FINE VARNISHES.

Hard Oil-Finish & Wood-Stains.

Illustrated Catalogue of Engineers' and Architects' Supplies, 250 pages, 700 Illustrations, on request.

White-Lead Colors in Oil and Japan.

THE DECORATIVE GLASS

in Abbey's Theatre, N. Y., and Keith's Opera House, Boston, are examples of Renaissance and Rococo designs, the movement, carried out entirely in our hard metal settings.

METALLIC SETTING CO.,
137 Weybosset St., PROVIDENCE, 5 Park Sq., BOSTON.

H. W. JOHNS' Liquid Paints

These Paints are composed of pure linseed oil and the highest grade of pigments. They are combined by processes exclusively our own and are unequalled by any in richness and permanency of color. One gallon will cover from 275 to 300 square feet, two coats without thinning and can be safely thinned with 1/2 gallon linseed oil to one gallon paint for first coat.

SAMPLE CARD OF 25 DES. INSTRUCTIONS FOR USE AND SUGGESTIONS FOR PAINTING ETC. FREE BY MAIL.

New York, Jersey City,
Chicago, Philadelphia, Boston.

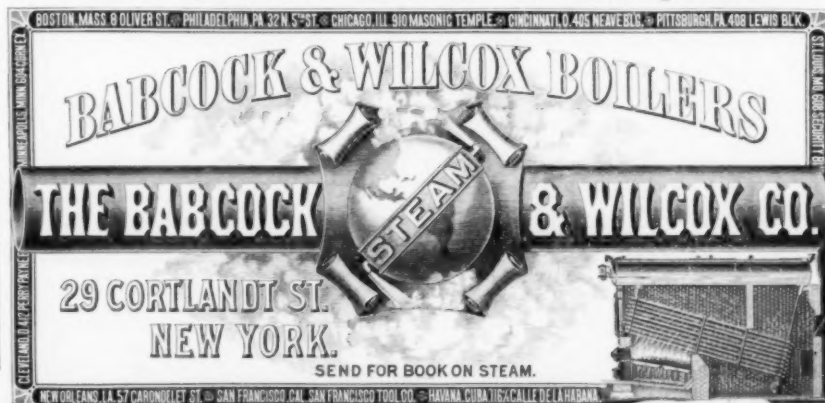
H. W. JOHNS MFG CO.



STAMPED STEEL CEILINGS
MANY DESIGNS
H. S. NORTHROP
Manufacturer,
30 ROSE ST.
NEW YORK

JOHN WILLIAMS, 544 to 556 West 27th Street, New York.
WROUGHT IRON AND BRASS WORK TO SPECIAL DESIGNS ONLY.
REFERENCES: Tiffany & Co., N. Y.; Cottier & Co., N. Y.; L. Marotte & Co., N. Y.; McKim, Mead & White, N. Y.; Babb, Cook & Willard, N. Y.; Bruce Price, N. Y.; R. M. Hunt, N. Y.; Bailey, Banks & Biddle, Phila.; Frank Hill Smith, Boston.; A. H. Davenport, Boston.

Awarded the Grand Prize at the late Paris Exposition.



BABCOCK & WILCOX BOILERS
THE BABCOCK & WILCOX CO.
29 CORTLANDT ST.
NEW YORK.
SEND FOR BOOK ON STEAM.

LOCATIONS: BOSTON, MASS. 9 OLIVER ST.; PHILADELPHIA, PA. 32 N. 5TH ST.; CHICAGO, ILL. 910 MASONIC TEMPLE; CINCINNATI, O. 405 N. VENERABLE; PITTSBURGH, PA. 408 LEWIS BLK.; ST. LOUIS, MO. 1000 MARKET ST.; NEW ORLEANS, LA. 57 CARondelet ST.; SAN FRANCISCO, CAL. SAN FRANCISCO TOOL CO.; HAVANA, CUBA. 115 CALLE DE LA HABANA.

Chicago & N. W. R. Co., repairs to freight house damaged by fire, Jefferson and Indiana Sts.: \$9,000.

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING, DREXEL BUILDING, MONADOCK BUILDING, DASHWOOD HOUSE,
NEW YORK. PHILADELPHIA. CHICAGO. LONDON.



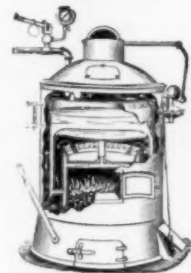
Announce to all who contemplate *building or renovating Hotels, Office Buildings or Residences*, that they have formed a department in their extensive works for
Architectural Woodwork,

Fine Cabinet Work, and Interior Finishing.

Plans, designs, specifications and further particulars will be submitted on application. Address
WORKS AT WILMINGTON, DEL.

The "Peerless" STEAM and HOT WATER HEATER.

The Simplest, Cheapest and Best.



Agents Wanted.

MECHANICAL DEPARTMENT, PHILADELPHIA, PA.
The Peerless Boiler that I am using is giving good satisfaction.
JOHN WANAMAKER.

PHILADELPHIA, PA.
DEAR SIR:—I have used one of the "Peerless" boilers since the winter of '90. The first winter I had a man to attend it night and morning; the next two winters my son, only 15 years of age, and this winter my hired girl is attending it. If I could not replace it, I would not take \$500 for it.
Yours respectfully,
H. W. SHEBLEY,



HON. JOHN WANAMAKER.

Of the firm of JONES, SHEBLEY & CO.

For Catalogues, Testimonials, Terms, &c., address
GEO. H. BELL & CO., 41 Dey St., New York City, N. Y.
Sole Agents for the United States.

THE "GORTON" BOILER, For STEAM and HOT-WATER HEATING.

ECONOMICAL IN FUEL, AUTOMATIC, SELF-FEEDING.

A STEEL SECTIONAL TUBULAR BOILER.

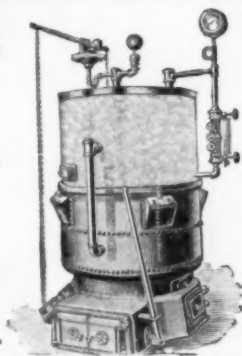
Correspondence solicited from Architects and those interested in Heating Large or Small Buildings.

Our New Book on MODERN HOUSE HEATING furnished on application.

CORTON & LIDGERWOOD CO.,

96 LIBERTY STREET, NEW YORK.

127 to 203 Congress St., Old Colony Bldg., Van Buren and Dearborn Sts., BOSTON. CHICAGO.



METAL CEILINGS
WRITE CATALOGUE FOR PRICES.
BERGER MFG CO. CANTON OHIO

BUILDING INTELLIGENCE.

(Alterations and Additions Continued.)

L. Z. Letter, one-sty brick addition, State and Van Buren Sts.; \$3,000.
City of Chicago, one-sty addition to school, 75th St. and Monroe Ave.; \$15,000.
Philadelphia, Pa.—Pascall Ave. and Seventy-third St., two-sty addition, 43' x 104', to the Home of Industry; arch., Frank Miles Day, 925 Chestnut St.
Frankford Ave., No. 2403, interior and exterior alterations to three-sty brick shoe-store; con., John Mattack, 2369 Aramingo St.
Catharine St., No. 2110, two-sty stone and brick back building; con., William J. Rherrie, s w cor. Tioga and 22d St.
Spring Garden St., No. 2037, three-sty brick back building, and mansard roof on main building; about \$10,000; own., Chas. H. Jordan; con., Thos. Little & Son, 217 Pear St.

APARTMENT-HOUSES.

Chicago, Ill.—Thomas Murphy, two-sty brick flats, 564 Euston Ave.; \$1,000.
J. O. Beckford, two-sty brick flats, 914 Spaulding Ave.; \$3,000.
S. Endlar, three-sty brick flats, 519 Thomas St.; \$1,000.
W. G. Osterberg, two-sty brick flats, 5031 Sangamon St.; \$3,000.
John Peterson, three-sty brick flats, 5521 South Peoria St.; \$4,500.
George Sherman, two-sty brick flats, 674 Maplewood Ave.; \$3,500.
Jas. Flemming, three-sty brick flats, 2919 Wallace St.; \$3,800.
M. Gardner, two-sty brick flats, 171 North Oakley St.; \$3,000.
Wolf Cohen, three-sty brick flats, 8361 Superior St.; \$3,500.
C. Miller, three-sty brick flats, Winchester Ave. and Polk St.; \$5,000.
N. Henry, three-sty brick flats, 353 Fifty-third St.; \$4,500.
Thomas Wirsbach, two-sty brick flats, 6815 Sangamon St.; \$3,000.
Mrs. Kemmerling, three-sty brick flats, 3240 Wentworth Ave.; \$9,000.

BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

C. Iverson, two-sty brick flats, 24 Richmond St.; \$3,500.
St. Louis, Mo.—Two two-sty adjoining flats, each 40' x 64', Ober St., bet. 20th and Blair Sts.; \$10,000; own., Goosse & Remmers.
Two-sty flats; \$4,400; own., F. T. Wanger.

CHURCHES.

Chicago, Ill.—The Church of Immaculate Conception, B. V. M., 732-735 Commercial Ave.; \$16,000.

EDUCATIONAL.

Bridgewater, Mass.—Four-sty brick addition to the State Normal School Building, pitch roof, 77' x 128'; own., State of Mass.; bld., Geo. Howard, Brockton; arch., Hartwell & Richardson, Boston.

McDonald, Pa.—Brick and stone ten-room school; about \$22,000; Secretary of School Board, L. H. Kelly; arch., E. J. Carlisle & Co., 805 Lewis Block, Pittsburgh, Pa.

FACTORIES.

Brooklyn, N. Y.—Bridge St., n w cor. Water St., five-sty brick factory, 50' x 85', felt and gravel roof; \$40,000; own., Kirkman & Son, 30 Catharine St., New York City; arch., W. B. Tubby, 81 Fulton St.
South Twenty-eighth St., s s, 150' w Hewes St., five-sty brick tin-ware factory, felt and gravel roof, 45' x 75'; \$20,000; own., Central Stamping Co., 255 Cliff St., New York City; arch., Th. Engelhardt, 205 Broadway.
State St., No. 235, two-sty brick factory, tar, asphalt and gravel roof, 22' x 60'; \$6,000; own., Ronalds & Co., 54 Cliff St., New York; arch., G. M. Snilling, 41 East 49th St., New York; bld., O. K. Buckley, Jr., 24 Lenox Road.

Orange, N. J.—Two-sty frame factory, 15' x 150'; own., Betts & Wilde.

HOSPITALS.

Brooklyn, N. Y.—Albany Ave., s e cor. Fenimore St., 5 one-sty frame isolated pavilions, 21' x 24', shingle roofs; total \$5,000; own., Health Dep't, City of Brooklyn; arch., J. G. Glover, 186 Remsen St.; bld., Samuel M. Randall, 151 Manhattan Ave.
St. Nicholas Ave., s s, bet. Stanhope and Stock-

ARCHITECTURAL DRAWING



DIPLOMAS AWARDED. Courses in other trades, all including thorough instruction in Mathematics and Physics. Send for FREE circular stating subject you wish to study to **The Correspondence School of Industrial Sciences, Scranton, Pa.**

BUILDING INTELLIGENCE.

(Hospitals Continued.)

holm Sts., four-sty brick hospital, 129' x 170', slate and iron roof; \$212,700; own., German Hospital Society; arch., R. L. Daus, 26 Court St.; bld., L. W. Seaman, Jr., & Son, 133 Grand Ave.

HOUSES.

Brooklyn, N. Y.—Fifty-fifth St., n s, 320' e 4th Ave., 10 two-sty and basement brick dwells., 20' x 42', tin roofs; \$3,000 each; own. and arch., Wm. S. Hassan, 149 Fifty-second St.

Eighteenth St., No. 475, n s, three-sty brick dwell., 22' x 45', tin roof; \$3,000; own., J. F. Smith, 475 Eighteenth St.; arch., J. A. Hanly, 806 Bedford Ave.

Jefferson St. Nos. 27-29, five-sty brick dwell., 44' x 81', tin roof; \$20,000; own., E. P. Tompkins, 97 East Houston St., New York City; arch., Chas. Newmayer, 1169 Myrtle Ave.

Forty-second St., s s, 100' w 16th Ave., two-sty and attic frame dwell., 20' 6" x 36', shingle roof; \$3,300; own., S. I. Kelly; arch., Benj. Daily.

Forty-second St., n s, 100' e 16th Ave., two-sty and attic frame dwell., 20' 6" x 36', shingle roof; \$3,300; own., E. S. Kelly; arch., Benj. Daily.

Truxton St., s s, 225' e Sackman St., 2 three-sty frame dwells., 25' x 60', gravel roofs; \$4,800 each; own. arch. and bld., G. Weirmann, New Lots Road, and Snediker Ave.

Fulton St., n s, 209' e Sackman St., three-sty frame dwell., 25' x 60', gravel roof; \$4,800; own. arch. and bld., G. Weirmann, New Lots Road and Snediker Ave.

Fulton St., n s, 234' e Sackman St., three-sty frame dwell., 20' x 60', gravel roof; \$3,900; own. arch. and bld., G. Weirmann, New Lots Road and Snediker Ave.

East Fifth St., e s, 119 n Greenwood Ave., two-sty and basement frame dwell., 20' x 40', tin roof; \$3,200; own., Mary Rooney, 20th St., Windsor Terrace.

Camden, N. J.—Chestnut St., No. 1126, brick dwell.; bld., Wm. Ross.

Orchard St., below Mount Vernon St., 4 two-sty brick dwells.; bld., Harry Foulk.

Chestnut Hill, Pa.—Rex Ave., n s, w Main St., 2 two-sty brick dwells.; con., William H. Foulk, Mermaid Ave.

Chicago, Ill.—E. N. Higgins, two-sty brick dwell., 1109 Kinmore Ave.; \$7,000.

C. F. Unrath, two-sty brick dwell., 1639 West Monroe St.; \$25,000.

A. B. Lowers, two-sty frame dwell., 51-53 Newport Ave.; \$7,000.

E. A. Wood, two-sty brick dwell., 4414-4416 Vincennes Ave.; \$14,000.

Joe Klausen, two-sty frame dwell. and barn, 237 Belle Plaine Ave.; \$3,500.

W. O. Budd, two-sty frame dwell., 6550 Harvard St.; \$15,000.

Henry Tewes, two-sty brick dwell., 1703 Waveland Ave.; \$8,000.

Media, Pa.—Councilman Worrall has the contract for the erection of a dwell. for Wm. Booth.

Newton Centre, Mass.—Grant Ave. and Montvale Road, two-and-one-half-sty frame dwell., pitch roof, 50' x 38'; \$8,000; own., T. I. Crowl; bld., Ireland Bros.; arch., Wm. F. Goodwin, 5 Tremont St., Boston.

New York, N. Y.—West End Ave., w s, 75' n 92d St., 5 four-sty brick dwells., 15' x 60', 50' high, mansard and flat tin and tile roofs; \$90,000; own., Wm. E. Lanchantin, 592 West End Ave.; arch., Clarence True, 102 West 1st St.

One Hundred and Twenty-fourth St., s s, 180' e 3d Ave., 2 five-sty brick dwells., 23' x 88', 55' high, flat tin roofs; \$25,000; own., Frederick B. Cole, West Brighton, L. I.; arch., E. Gollner, 41 Park Row.

Forest Ave., w s, 61' s 165th St., three-sty stone and frame dwell., 39' x 19', 23' high, flat tin roof; \$4,000; own., Henry Eberhardt, 398 Forest Ave., arch., Adolph Pfeiffer, 3068 Third Ave.

Pittsburgh, Pa.—Wallingford St., brick and stone dwell.; \$8,000; own., J. A. Wakefield.

A dwell. will be built for George Huffman on Mount Washington; con., Martisoff Bros.
Three-sty brick dwell., stone trimmings, nine rooms; own., Mr. Powell, Duquesne Heights; arch., Arthur Thomas, 108 Fourth Ave.

St. Louis, Mo.—Two-sty dwell., 25' x 46'. Westmoreland Pl., bet. Lake St. and King's Highway; \$75,000; own., Byron Nugent.

Dwell., \$3,000; own., Louis Bacher.
Two-sty dwell., 40' x 50', Hawthorne St., bet. Milton and Russell Sts.; \$10,000; own., Geo. Beck.

Iron-Work.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.
Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,
BEAMS, CHANNELS, ANGLES, ZEEs, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.

Round, Square and Flat Bars
of all sizes.

SPECIALTIES:

PHENIX COLUMNS AND UPSET EYE-BARS
Of all sizes, in Iron or Steel.

ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.

AGENTS:

New York: EDWARD CORNING & Co., 29 Broadway.
Chicago: A. C. STITES, 931 Rookery Building.
Boston: EDWARD CORNING & Co., 70 Kilby Street.

PASSAIC ROLLING MILL CO.,
PATERSON, N. J.

STEEL BEAMS 4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES,
NEW YORK OFFICE, - - 43 BROADWAY

BELMONT IRON WORKS, Limited.



Successors to
MANLY & COOPER MANUFACTURING CO.
Ornamental
AND
Architectural
IRON.

Twenty-Second Street and Washington Ave
PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Houses Continued.)

Three-sty' dwell., 60' x 61', Westmoreland Pl., bet.
Boyle and Newtown Sts.; \$24,000; own., C. F. Bates.
Dwell.; \$3,500; own., J. Wirthlin.
Dwell.; \$3,000; own., L. Meyers.
Dwell.; \$5,500; own., Globe Realty Co.
Two-sty' dwell.; \$4,500; own., J. A. Primus.
Two-sty' dwell.; \$3,000; own., M. J. Rallio.

West Newton, Mass. - Temple St., cor. Prince St.,
two-and-one-half-sty' frame dwell., gambrel roof,
30' x 50'; \$6,000; own., W. A. Young; bld., J. E.
Poland; arch., W. F. Goodwin, Boston.

Worcester, Mass. - Toner St., two-sty' frame
dwell.; own., W. L. Bliss; con., F. O. Blake.
Toner St., one-and-one-half-sty' frame dwell.;
own., C. J. Orcutt; con., F. O. Blake.
Burncoat St., two-sty' frame dwell.; own., F. W.
White; arch., W. H. Harvey; con., E. J. Cross.

OFFICE-BUILDINGS.

Brooklyn, N. Y. - Church Ave., n w cor. 37th St.,
one-sty' brick railroad office, 45' 4 1/2" x 44' 6";
roof; \$3,000; own. and arch., Nassau Electric Rail-
way Co., 41 Thirty-ninth St.

STORES.

Chicago, Ill. - Mrs. F. Slimes, four-sty' brick store
and flats, 295 West Lake St.; \$10,000.
Konneker & Elsmann, four-sty' brick store and
flats, 185-187 West 12th St.; \$14,000.
Frank Klajda, three-sty' brick store and flats, 1016
Robey St.; \$8,500.
Johann & Jacobs, three-sty' brick store and flats,
614 West 12th St.; \$8,000.
E. Lee, four-sty' brick store and flats, 416-418 West
Madison St.; \$30,000.
E. Peterson, four-sty' brick store and flats, 1925
Waveland Ave.; \$8,000.
O. J. Wright, two-sty' brick store and flats, 1762-
1764 Twenty-second St.; \$15,000.
C. Holst, three-sty' brick store and flats, 1331
Fulton St.; \$7,500.
R. T. Ward three-sty' brick store and flats, 1489
Harrison St.; \$9,000.
P. Welter, three-sty' brick store and flats, 540
West North Ave.; \$3,800.

Philadelphia, Pa. - Arizona St., s w cor. 27th St.,
three-sty' brick store and dwell. with back building;
own., Alonzo E. Hawes; arch., E. A. Koch, 2321
North 28th St.
Mount Pleasant Ave., s e cor. 28th St., three-sty'
brick store and dwell.; con., R. C. Morgner, 401
Clearfield Ave.

South Second St., Nos. 1925-1927, 2 two-sty' brick
stores and dwells. with back buildings; con., R.
Moffett, 126 McKean St.

St. Louis, Mo. - Three-sty' building, 30' x 70', with
stores on the ground-floor and 29 rooms above, 19th
and Market Sts.; \$13,000; own., John S. Sullivan.

WAREHOUSES.

Chicago, Ill. - Spalding & Merrick, four-sty' brick
warehouse, 271-281 Michigan St.; \$75,000.
J. J. Flanders, five-sty' brick warehouse, 173-175
West Adams St.; \$25,000.
Bowman Dairy Co., one-sty' brick milk house, 943-
945 Adams St.; \$10,000.

Philadelphia, Pa. - Broad St., e s, 177' n Lehigh
Ave., three-sty' brick storage warehouse, 53' x 69 1/2',
also in rear, two-sty' brick stable, 22' x 28',
and carriage-house, 22' x 27'; con., George M. Miller,
2129 North 13th St.

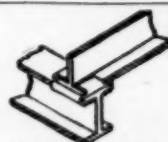
JACKSON ARCHITECTURAL IRON WORKS,
ESTABLISHED 1840.

IRON

Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams,
Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings
and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze.
Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts.

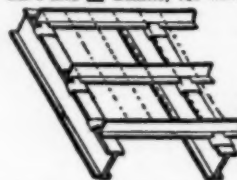
Office, 315 East 28th St., New York.



H. A. Streeter's Patent Clip



ARCHITECTS, OWNERS, CONTRACTORS, and all
others interested in Iron or Steel construction will please
note that I have PATENTED A STEEL CLIP for connect-
ing Angle or Tee bars to I Beams, etc., which reduces the expense one-half,
and does away with the old method of Drilling and Bolting, which is a great sav-
ing of Time, besides allowing an easy method of adjusting Tee bars to any de-
sired width of Tile. (This method is now adopted by our principal contractors).
Clips furnished ready to apply by sending the Sections and weight of Tee
Bars and I Beams, for which connections are wanted.



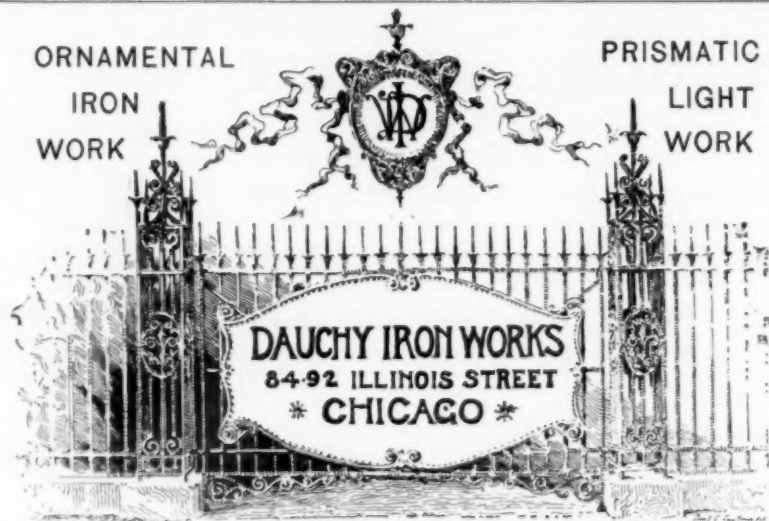
FOR PRICES AND FURTHER INFORMATION

APPLY TO STREETER
Globe Iron Works,
35-41 E. INDIANA STREET,
CHICAGO, - - - ILL.



ORNAMENTAL
IRON
WORK

PRISMATIC
LIGHT
WORK



BUILDING INTELLIGENCE.

(Warehouses Continued.)

Rittenhouse St., 208' s e Main St., four-sty' stone
and brick ware and store house, 51' x 72'; con., Thos.
Hagerty, 312 Adams St.

MISCELLANEOUS.

Ereildoun, Pa. - Barn, 70' x 125', for 80 head of
stock; own., N. P. Boyer.

Holmesburg, Pa. - Frankford Ave., e Rhawn St.,
brick and frame greenhouse; con., Charles W.
Fetter.

Olney, Pa. - Maple Ave., frame greenhouse; own.,
Albert F. Floyd.

Philadelphia, Pa. - North Front St., rear, Nos. 933-5,
frame open storage-shed, 27' x 67'; own., Wolff
Chemical Co.

Margrove St., cor. Slocum St., corrugated iron
green-house; own., Chas. E. Meelan.

Moore St., s w cor. Swanson St., frame shelter-
shed, 60' x 144'; own., Kelly Bros. & Spielman.

Dunphin St., cor. 25th St., stone and brick founda-
tion, 90' x 100', for garbage crematory; own., Phila-
delphia Chemical Incinerating Company; con., M.
V. Smith, 1345 Arch St.

Callowhill St., w 24th St., stone and brick founda-
tion, 90' x 100', for garbage crematory; own., Phila-
delphia Chemical Incinerating Company; con., M.
V. Smith, 1345 Arch St.

St. Louis, Mo. - Gate entrance; \$5,000; own., T.
Lewis.

COMPETITIONS.

MUSEUM OF ANTIQUITIES. [At Cairo, Egypt.]

The Egyptian Government have decided to put into
competition the supply of the best project for building
a museum for the Egyptian Antiquities in Cairo.

Architects of all nations are admitted to compete.
The amount allotted for this purpose is £E. 120,000.1

Awards will be given to the authors of the best pro-
jects: the first being fixed at £E600 and the next four
will have a sum of £E. 400 divided amongst them.

The projects should reach Cairo at latest on the 1st
March, 1895, at noon.

The programme of this competition will be supplied
by the Public Works Department in Cairo, on appli-
cation.

NOTE: - The sterling pound is worth £E. 0.975, and
the French piece of twenty francs £E. 0.770.

PROPOSALS.

WATER-WORKS.

[At Beaver Falls, Pa.]

Proposals are wanted until November 6, for filter-
ing plant and building for same, and for pumps and
boilers. Plans, etc., at office of James H. Harlow &
Co., Times Bldg., Pittsburgh, Pa. Address BUILDING
COMMITTEE OF COUNCIL, as above. 983

BUILDING.

[At Victoria, B. C.]

Proposals are wanted until October 19, for a post-
office building. Address E. F. E. ROY, Secretary
Department of Public Works, as above. 981

PUMPING-ENGINES.

[At Chicago, Ill.]

Proposals are wanted until October 11, for two
vertical compound pumping-engines, each of capacity
of 15,000,000 gallons in twenty-four hours, with boil-
ers, etc., for the Chicago Avenue Pumping-station.
Address H. J. JONES, Commissioner, Department of
Public Works, as above. 980

PUMPING-ENGINE.

[At Chicago, Ill.]

Proposals are wanted until October 11, for triple
expansion pumping-engine of capacity of 30,000,000
gallons in twenty-four hours, with boilers, etc., for
the 14th St. Pumping-station. Address H. J. JONES,
Commissioner, Department of Public Works, as above.
980

PUMPING-ENGINES.

[At Chicago, Ill.]

Proposals are wanted until October 11, for two
horizontal compound condensing pumping-engines,
each of capacity of 14,000,000 gallons in twenty-four
hours, with boilers, etc., one for 68th St. Pumping-
station and one for Lake View Pumping station. Ad-
dress H. J. JONES, Commissioner, Department of
Public Works, as above. 980

WATER-WORKS.

[At Beaver Falls, Pa.]

Proposals are wanted until October 16, for two
3,000,000-gallon pumps and building a 6,000,000 gallon
reservoir. Plans, etc., at office of James H. Harlow
& Co., Times Building, Pittsburgh, Pa. Address
BUILDING COMMITTEE OF COUNCIL, as above. 980

THE J. L. MOTT IRON WORKS,

84 to 90 Beekman Street, New York.

311 and 313 Wabash Avenue, Chicago.

322 and 324 Boylston Street, Boston.

Wainwright Building, St. Louis.

Flood Building, San Francisco.



Copyright, 1893, by THE J. L. MOTT IRON WORKS, in their publications. Plate 1087G. (Reduced cut.)

FINE appearance, durability, and perfection from a sanitary standpoint are all combined in these baths. They entail no labor, scouring or burnishing, requiring merely to be wiped out with a sponge to be thoroughly cleaned.

Interested parties are invited to visit our showrooms and examine these and other sanitary appliances.

IMPERIAL PORCELAIN ROLL-RIM BATHS.

ILLUSTRATED PRICE-LIST MAILED ON APPLICATION.

PROPOSALS.

ELECTRIC-LIGHTING.

[At Oswego, N. Y.]
Proposals are wanted until October 15, for electric-lighting. Address BOARD OF PUBLIC WORKS, as above. 980

BUILDINGS.

[At Jefferson Barracks, Mo.]
Proposals are wanted until October 6, for three cavalry stables, plumbing, etc. Address CAPT. CHAS. H. INGALLS, A. Q. M., as above. 979

BUILDINGS.

[At San Francisco, Cal.]
Proposals are wanted until October 5, for barrack building, plumbing, gas-piping and lockers at Presidio. Address J. G. CHANDLER, A. Q. M. G., as above. 979

RUBBLE STONE.

[At Scituate Harbor, Mass.]
Proposals are wanted until October 8, for delivery of rubble stone at Scituate Harbor. Address S. M. MANSFIELD, Lt.-Col. Engrs., U. S. Engineer Office, Boston, Mass. 979

WATER-WORKS.

[At Beaver Falls, Pa.]
Proposals are wanted until October 2, for 2,800 tons cast-iron water-pipe, 230 hydrants, valves, etc. Plans, etc., at office of James H. Harlow & Co., Times Bldg., Pittsburgh, Pa. Address BUILDING COMMITTEE OF COUNCIL, as above. 979

CULVERT.

[At Springfield, O.]
Proposals are wanted until October 6, for an arch culvert. Address BOARD OF HAMILTON COUNTY COMMISSIONERS, Cincinnati, O. 979

BRIDGE.

[At Cincinnati, O.]
Proposals are wanted until October 4, for concrete or stone wagon bridge in Eden Park. Plans, etc., at office of Superintendent of Parks, City-Hall. Address BOARD OF ADMINISTRATION, as above. 979

Treasury Department, Office Supervising Architect, Washington, D. C., September 15, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 12th day of October, 1894, and opened immediately thereafter, for all the labor and materials required for the excavation, foundations, basement and area-walls, basement columns and I-beams, etc., of first-floor construction, temporary drainage, etc., for the United States Post-office building at Allegheny, Pa., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Allegheny, Pa. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for the Excavation, Foundations, etc., for the United States Post-office building at Allegheny, Pa.," and addressed to JEREMIAH O'BURKE, Supervising Architect. 979



"DUPLEX" THE BEST WATER CLOSET IN THE WORLD

*Quiet in Operation,
Positive in Action,
Elegant in Appearance*
—AND—
Sanitarily Perfect.

FRED. ADEE & CO.,
90 BEEKMAN ST.,
NEW YORK.

PROPOSALS.

BRIDGE.

[At Indianapolis, Ind.]
Proposals are wanted until September 29, for a bridge over White River, near Indianapolis. Address FURMAN STOUT, Chairman Board of County Commissioners, as above. 978

SCHOOL.

[At Woonsocket, R. I.]
Proposals are wanted until September 25, for school-building on Boyden St. Address HENRY L. COOK, Chairman Building Committee, as above. 978

CITY-HALL AND MARKET.

[At Jacksonville, Fla.]
Proposals are wanted until October 4, for city-hall and market-building. Address WILLIAM C. WEST, Recorder, as above. 978

CANAL.

Proposals are wanted until October 1, for construction of a power canal. Plans, etc., at office of Chief Engineer, E. C. Reynolds, Model City, Niagara Co., N. Y. Address NIAGARA POWER & DEVELOPMENT CO., same place. 978

FURNITURE, ETC.

[At Cincinnati, O.]
Proposals are wanted until September 29, for furniture, stained-glass and steam-heating for new chapel at City Infirmary. Plans, etc., at office of Saml. Hannaford & Sons, s e cor. 6th and Vine Sts. Address BOARD OF ADMINISTRATION, as above. 978

PROPOSALS.

WATER-WORKS.

[At Cattaraugus, N. Y.]
Proposals are wanted until September 29, for a system of water-works. Address ODELL C. RICH, Sec'y Board of Water Comrs., as above. 978

SEWERS.

[At Connersville, Ind.]
Proposals are wanted until October 2, for sewers. Plans, etc., at office of John A. Cole, Consulting Engineer, 1580 Old Colony Bldg., Chicago, Ill. Address CITY CLERK, Connersville, Ind. 978

DAM, ETC.

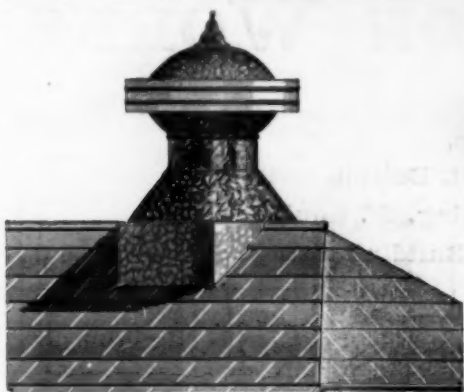
[At Dallas, Tex.]
Proposals are wanted until October 3, for dam, retaining-wall and pump pit, with foundations. Address R. W. HAVENS, City Engineer, as above. 978

BRIDGES AND BRIDGE MASONRY.

Proposals are wanted until October 31, for bridges and bridge masonry along the line of the Main Drainage Channel. Address CLERK OF SANITARY DISTRICT OF CHICAGO, Room H, Rialto Building, Chicago, Ill. Plans, etc., at office of Chief Engineer, same address. 983

HEATING AND VENTILATING, ETC.

[At Auburn, Cal.]
Proposals are wanted until October 19, for heating and ventilating apparatus, vaults and cells in Placer County Court-house. Address GEORGE B. HEWES, Chairman Board of Supervisors, as above. 981



The Proverbial Cucumbe

is not cooler than a

HOUSE, HALL, CHURCH OR FACTORY

that is ventilated by the

GLOBE VENTILATOR.

Send for Circular on the Subject.

GLOBE VENTILATOR COMPANY,
TROY, NEW YORK.

MOORE'S GAS JET VENTILATOR.



INSURES
AT
ALL TIMES
THOROUGH
VENTILATION.

HAINES, JONES & CADBURY CO.,
Sole Manufacturers,
1136 Ridge Ave., PHILADELPHIA.

PROPOSALS.

PENITENTIARY.

[At Nashville, Tenn.]
Proposals are wanted until October 1, for the State Penitentiary Buildings. Address ED. LAURENT, Supervising Architect, as above. 979

WATER-WORKS.

[At Greenville, Miss.]
Proposals are wanted until October 2, for water-works. Address CITY CLERK, as above. 979

ELECTRIC-LIGHTING.

[At Jackson, Tenn.]
Proposals are wanted until October 2, for electric-lighting. Address SAM C. LANCASTER, City Engineer, as above. 979

RUBBLESTONE.

[At Sandy Bay and Gloucester, Mass.]
Proposals are wanted until October 4, for delivery of rubblestone in breakwaters at Sandy Bay and Gloucester Harbor, Mass. Address S. M. MANSFIELD, Lt.-Col. Engrs., U. S. Engineer Office, Boston, Mass. 979

RUBBLESTONE.

[At Newburyport, Mass.]
Proposals are wanted until October 4, for delivery of rubblestone in the south jetty at Newburyport Harbor, Mass. Address S. M. MANSFIELD, Lt.-Col. Engrs., U. S. Engineer Office, Boston, Mass. 979

REPAIRS TO BREAKWATER.

[At Burlington, Vt.]
Proposals are wanted until October 5, for repairs to Burlington Breakwater. Address SMITH S. LEACH, Captain of Engineers, as above. 979

STONE.

Proposals are wanted until October 4, for building and riprap stone in Potomac River. Address MAJOR C. E. L. B. DAVIS, U. S. Engineer Office, 601 Eighteenth St., N. W. Washington, D. C. 979

STONE.

Proposals are wanted until September 25, for stone for building lock No. 2 on Cumberland River. Address CAPT. JOHN RIDDLE, U. S. Engineer Office, Nashville, Tenn. 978

WAGON-SHED.

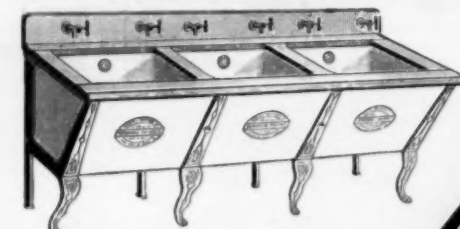
[At Fort Brady, Mich.]
Proposals are wanted until September 29, for a wagon-shed. Address POST QUARTERMASTER, as above. 978

WATER-WORKS.

[At Morrisville, N. Y.]
Proposals are wanted until September 28, for a system of water-works. Address DAVID D. JONES, Secy. Board of Water Commissioners, as above. 978

LEVEES.

Proposals are wanted until September 25, for levees in the Upper Texas Levee district. Address CAPT. C. McD. TOWNSEND, U. S. Engineer Office, 106 Madison St., Memphis, Tenn. 978



SOLE MANUFACTURERS OF
MORAHAN'S PATENT SOLID WHITE
CROCKERY STATIONARY
WASH TUBS

Perfectly Glazed, Smooth Surfaces.
No labor required to keep clean.
Cannot absorb, leak or decay.
Not affected by heat or cold.
No seams to open. Very strong.
Over fifteen years on the market.
Warranted for thirty years against
injury violence excepted.
Thousands in use.
BEWARE OF IMITATIONS.

The Only PERFECT
SANITARY TUBS
in Existence.

312
PEARL STREET,
COR. FRICK BLIP
NEW YORK.

259 WABASH AVENUE,
CHICAGO, ILL.

Three Highest Awards Columbian Exposition.



SOLID WHITE
CROCKERY
BUTLER'S
PANTRY, SLOP &
KITCHEN SINKS.

SAME MATERIAL AND STRENGTH AS TUBS.

PROPOSALS.

REPAIRS.

[At Fort Mifflin, Pa.]
Proposals are wanted until September 25, for repairs at Naval Magazine, Fort Mifflin, near Philadelphia. Address W. T. SAMPSON, Bureau of Ordnance, Navy Department, Washington, D. C. 978

MONUMENT.

[At Newton, N. J.]
Proposals are wanted until September 29, for a Quincy granite Soldiers and Sailors Monument, to cost about \$5,800. Address SAMUEL JOHNSON, Newton, Sussex Co., N. J. 978

BARRACKS, ETC.

[At Fort Myer, Va.]
Proposals are wanted until September 27, for barracks and officers' quarters. Address LIEUT.-COL. GEORGE H. WEEKS, Depot Quartermaster, Washington, D. C. 978

BUILDINGS.

[At Plattsburgh, N. Y.]
Proposals are wanted until September 27, for storehouse buildings, officers' quarters, etc. Address GEORGE C. POND, A. Q., U. S. A., as above. 978

IRONWORK.

[At Kanawha, W. Va.]
Proposals are wanted until September 27, for about 635,000 lbs. wrought-iron and 337,000 lbs. cast-iron for movable dams on the Great Kanawha River. Address ADDISON M. SCOTT, as above. 978

LIGHT STATION.

[At Solomon's Lump, Md.]
Proposals are wanted until September 26, for a light station. Address ERIC BERGLAND, Capt. U. S. A., Office of Light-house Engineer, Fifth District, Baltimore, Md. 978

OFFICERS' QUARTERS.

[At David's Island, N. Y.]
Proposals are wanted until September 25, for officers' quarters. Address J. W. SUMMERHAYES, A. Q. M., U. S. A., as above. 978

SCHOOL.

[At Fort Leavenworth, Kan.]
Proposals are wanted until September 25, for addition to school. Address CAPT. F. G. HODGSON, A. Q. M., U. S. A., as above. 978

PROPOSALS.

TELEPHONE SYSTEM.

[At Washington, D. C.]
Proposals are wanted until September 24, for telephone exchange system for Department of Interior. Address JOHN M. REYNOLDS, Acting Secretary, Department of the Interior, as above. 978

Treasury Department, Office Supervising Architect, Washington, D. C., September 10, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 9th day of October, 1894, and opened immediately thereafter, for all the labor and materials required for a new building, etc., at the United States Marine Hospital, Vineyard Haven, Mass., in accordance with the drawings and specification, copies of which may be had at the office of the Custodian at Vineyard Haven, Mass. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes sealed and marked "Proposal for a New Building, etc., at the United States Marine Hospital, at Vineyard Haven, Mass.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 978

Treasury Department, Office Supervising Architect, Washington, D. C., September 5, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 26th day of September, 1894, and opened immediately thereafter, for all the labor and materials and fixing in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus required for the United States Post-office building at Lewiston, Me., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Lewiston, Me. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it is deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Heating and Ventilating Apparatus, etc., for the United States Post-office building at Lewiston, Me.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 978

THE VAN VRANKEN FLUSH TANK.
For Sewers, Subsoil Disposal, etc.
For catalogues, discounts and other particulars, address
J. LELAND FITZGERALD,
437 STATE STREET, SCHENECTADY, N. Y.

"THE CAST SINK MUST GO"

THE COLUMBUS SINK DISPLACES,
WROUGHT STEEL ALL OTHERS
PAINTED, GALVANIZED, ENAMELLED.
Send for descriptive circular and prices, to
The Kilbourne & Jacobs Mfg. Co.
Sole Manufacturers. - COLUMBUS, OHIO.

BOSTON FIRE-BRICK WORKS.

FRONT BRICK

BUFF, BROWN, MOTTLED YELLOW,
GRAY, OLD GOLD AND
OTHER COLORS.

**ARCHITECTURAL
TERRA-COTTA**

In all its varied colors and forms.

FISKE, HOMES & CO.,
MANAGERS,

Factories on Federal Street and
at South Boston.

Office 164 Devonshire St., Boston.
Times Building, Park Row, New York.
927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.

SOLE OWNERS AND MANUFACTURERS OF

J. G. MERRILL'S PATENT

SALAMANDER

Fire-Proof Composition
FOR BUILDINGS.



Used as Lining between
Floors, and upon Walls,
Ceilings, Elevator and
Light Shafts, Boiler Rooms,
Doors, Shutters, etc. It is
Air, Dust, and Vermin
Proof, and a Sound

Deadener.

Office, 166 Devonshire Street, BOSTON.

A. I. HODDER, Pres.
CHAS. T. HAKER, Treas.
W. D. LOMBARDO, Gen. Mgr.

Room 40 Master Builders
Association Building.



For estimates on
**ASPHALT
WORK**

of every descrip-
tion apply to Man-
ager,

T. Hugh Boorman,

N. Y. Mastic Works, 35 Broadway, N. Y.
Asphalt Mine Owners in France, Sicily, etc.

BROOKS, SHOOBRIDGE & CO.,

PORTLAND CEMENT.

Works: Grays, Essex, England.
New York Office: 7 Bowling Green.

Fire-proof Building.

RARITAN HOLLOW AND POROUS BRICK CO.,

— MANUFACTURERS OF —

Hollow Fire-Clay and Porous Terra-Cotta Bricks
of Every Description, for Fireproof Buildings.
BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.

Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.

Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.

HENRY MAURER & SON,

Manufacturers of

FIRE-PROOF BUILDING MATERIAL

of every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.
Porous Terra-Cotta, Fire-Brick, etc., etc.
Works, MAURER, N. J. Office and Depot, 420 EAST 23d STREET, New York.
Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."

**C. PARDEE
WORKS,**

Manufacturers All Kinds Fireproof Building Materials, etc.
Perth Amboy, N. J. See ad. on page XVI.

**PIONEER FIREPROOF
CONSTRUCTION CO.**

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile AND Porous Terra-Cotta

FOR FIREPROOFING BUILDINGS.

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

**TO ARCHITECTS,
BUILDERS
AND OWNERS.**

Sample and Circulars Free.

Attention is called to Fireproof and Vermin-Proof

MINERAL WOOL,

As a Lining in Walls and Floors for preventing the
ESCAPE OF WARMTH AND THE DEADENING OF SOUND.

AMERICAN MINERAL WOOL CO.

Lessee of

Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N.Y. City.

Roebling STANDARD Wire Lathing

FIREPROOF—DURABLE—ECONOMICAL

Pays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures
a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three
public tests—detailed accounts of which will be mailed to any address upon request.

**THE NEW JERSEY WIRE CLOTH COMPANY,
TRENTON, N. J.**

Massachusetts Material-Men and Contractors.

ARTIFICIAL STONE.	FIREPROOFING.	HEATING CONTRACTOR.	MASON CONTRACTORS.
SIMPSON BROS. 166 Devonshire St. Boston, Mass.	BOSTON FIREPROOFING CO. 166 Devonshire St. Boston, Mass.	W. E. FLORENCE, 10 Beacon St. Chelsea, Mass.	THOMAS J. LYONS, 166 Devonshire St. Boston, Mass.
BUILDING CONTRACTORS.	FURNACES.	INTERIOR DECORATOR.	PAPIER MACHÉ.
LITTLEFIELD BUILDING CO. Incorporated. Room 57, 166 Devonshire St. Boston, Mass.	CYRUS CARPENTER & CO. 44 Hanover St. Boston, Mass.	WILLIAM J. DOLAN, 224 Tremont St. Boston, Mass.	CONLAN & MAYBECK, 65 Wareham St. Boston, Mass.
CARVERS, MODELLERS.	GRANITE.	IRON WORK. (Building)	SASH CORD.
JOHN EVANS & CO. 77 Huntington Ave. Boston, Mass.	GRANITE RAILWAY CO. 166 Devonshire St. Boston, Mass.	R. F. HAWKINS' IRON WORKS, Springfield, Mass.	SILVER LAKE CO. 78 Chauncy St. Boston, Mass.
ELECTRIC WORK.	HEATING. (Air & Water)	MANTELS. (Wood)	SLATE. (Roofing)
BLODGETT BROS. & CO. 393 Federal St. Boston.	MAGEE FURNACE CO. 30-8 Union St. Boston, Mass.	J. W. BAILEY & SONS CO. 14 Charlestown St. Boston, Mass.	H. H. MATHEWS, 178 Devonshire St. Boston, Mass.

Bricks and Terra-Cotta.**HYDRAULIC BRICK,
PLAIN AND MOULDED
OF ANY COLOR.
RED, BUFF, GRAY, BROWN,
PINK, MOTTLED, GRANITE.**

Total Annual Capacity, 100,000,000.

HYDRAULIC-PRESS BRICK CO.,
ODD FELLOWS' BUILDING,
ST. LOUIS, MO.**PERTH AMBOY
TERRA-COTTA COMPANY,**

PERTH AMBOY, NEW JERSEY.

OFFICE, 289 Fourth Ave., New York.

PHILADELPHIA
OFFICE,
DREXEL BLDG.BOSTON AGENTS,
WALDO BROS.,
88 Water Street.**TIFFANY PRESSED BRICK CO.,**
Manufacturers ofPressed and Enamelled Brick,
Plain and Ornamental.403 Chamber of Commerce B'ld'g,
CHICAGO.**BUILDING-BRICK.**

YARDS at West Brimfield, Mass., on Boston & Albany R. R., and at Amherst, Mass., on Central Vermont R. R. (New London Northern Div.) and Boston & Maine R. R. (Central Mass. Div.).

CAPACITY, 7,000,000 Annually.

Address, MARCY & GARDNER,
PALMER, MASS.**"Architects" SPECIFY LAFARGE'S
CEMENT**

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,Importer and Sole Agent,
81 and 83 Fulton St., N. Y.

Architects, Builders, and others will confer a favor on the Publishers by mentioning "The American Architect and Building News" when sending for circulars or corresponding with parties advertising in these columns.

**NEW YORK
ARCHITECTURAL TERRA COTTA
COMPANY.**OFFICE,
38 PARK ROW,
New York City.WORKS,
LONG ISLAND CITY,
New York.GENERAL AGENTS FOR NEW ENGLAND:
BOSTON FIRE BRICK COMPANY,
Flake, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.**STEPHENS, ARMSTRONG & CONKLING,**
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, Philadelphia, Pa.**— INDIANAPOLIS —
TERRA-COTTA CO.**Works: Brightwood, Ind.
ESTIMATES ON SPECIAL DESIGNS PROMPTLY
FURNISHED. WRITE FOR CATALOGUE
AND DISCOUNTS.
SEMI-GLAZE OR DEAD-FINISH.
ALL COLORS.**POMPEIIAN,
BUFF AND RED PRESSED,
ALSO ORNAMENTAL**

FACE BRICK MANTELS.

CAPACITY, 100,000,000 PER ANNUM.

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

**FRONT BRICKS
AND
TERRA-COTTA**

— IN OVER TWENTY COLORS. —

Chimney Flue Linings, Chimney Tops, Drain
Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,

86 WATER STREET. - - BOSTON.

**THE
Northwestern Terra-Cotta Co.**
Manufacturers of**Architectural Terra-Cotta.**WORKS & MAIN OFFICE:
Cor. Clybourn & Wright-
wood Avenues.CITY OFFICES:
Room 1118 Bookery Bldg.
cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for
Catalogue and Samples.**BRICK** OF ANY COLOR
AND
OF ALL SHAPES.

NO. 3 SPANISH.

BALTIMORE ROOFING TILE CO.BURNS, RUSSELL & CO., Proprietors,
535 Columbia Avenue, Baltimore, Md.,

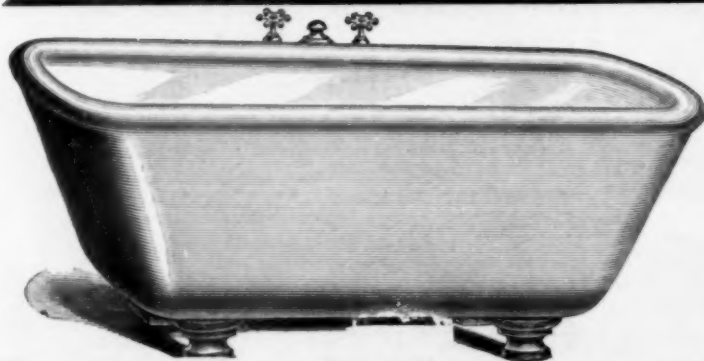
MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other
styles of Clay Roofing Tiles in all colors,
glazed or unglazed.

CATALOGUE ON APPLICATION.



ROMAN

C. PARDEE WORKS, Perth Amboy, N. J.
MANUFACTURERS
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIREPROOF BUILDING MATERIALS, ETC.**THE GENUINE****Taylor "OLD STYLE" brand
OF ROOFING TIN.**The EFFORTS made to IMITATE the Genuine Taylor "Old Style" Brand of
Roofing Tin is the best proof of the high esteem in which it is held. See that
you get the Genuine. Remember that every sheet has our name and registered
Trade Mark of Target and Arrow stamped upon it.**N. & C. TAYLOR CO., Manufacturers,
PHILADELPHIA.****Porcelain Bath Tubs****"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.****"SLUICE" Syphon Water Closet.****MINTON'S TILES**For Bathrooms, Halls and Vestibules; Glazed,
Unglazed and Enamelled.**MILLER & COATES, 279 PEARL STREET
NEW YORK.**260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.

THE ONLY MEDAL AND AWARD FOR SHINGLE STAINS
At the World's Columbian Exposition
HAS BEEN AWARDED TO
DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.

PEERLESS COLORS FOR MORTAR.

BLACK, RED, BROWN, BUFF. NEW COLORS, MOSS GREEN, ROYAL PURPLE, FRENCH GREY, POMPEIAN BUFF
COLONIAL DRAB.

THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.

ALSO

PLASTER ARCHITECTURAL ORNAMENTS FROM ORIGINAL AND SPECIAL DESIGNS.

SAMUEL H. FRENCH & CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.

BLUE
PRINTS

And Supplies for Architects,
Engineers, and
Draughtsmen.
FROST & ADAMS,
37 Cornhill,
Boston, Mass.

Send for Our New Catalogue.

METAL CEILINGS
Suitable for
Residences, Offices, Schools,
Hospitals & Churches.
Can be applied over old Plaster
without removal of same.
Give Measurements for estimate.
N.Y. METAL CEILING CO.
21 ST. ST. AND 13TH AVE.
NEW YORK, N.Y.

Drawing-Office.

Drawings rendered in line or
color with reasonable despatch.

ADDRESS

Editors of the American Architect.



W. R. OSTRANDER & CO.,
204 Fulton Street, New York.

Manufacturers of

Speaking-Tubes, Whistles, Oral, Electric, Me-
chanical and Pneumatic Annunciators & Bells.
Complete outfits of Speaking-Tubes, Whistles, Electric,
Mechanical, and Pneumatic Bells. A full line always
in stock. Send for New Catalogue. Factory, De Kalb
Ave. near Knickerbocker, Brooklyn, N. Y.



JAMES A. MILLER & BRO.

129 & 131
S. CLINTON ST.
CHICAGO

SLATE
TIN AND
IRON
ROOFERS

CORRUGATED
IRON
FOR ROOFING
AND SIDING

THE HAYES
SKYLIGHT.

GALVANIZED
IRON CORNICES

CORRUGATED
CONDUCTOR PIPE

WARRANTED NOT
TO BURST WHEN
FULL OF ICE.

PASSENGER
AND
FREIGHT
ELEVATORS

Morse, Williams & Co.,

Electric and Hydraulic High Speed

Passenger Elevators.

Steam, Belt and Hand Power Freight Elevators.

1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.

19 Pearl St., Boston. 82 Church St., New Haven.

714 Omaha Building, Chicago. Builders' Exchange, Baltimore, Md.

Decorative
Glass and
Sand Blast
Work.

THE MATTHEWS DECORATIVE GLASS CO.

MANUFACTURERS OF

ORNAMENTAL GLASS in Sheets or from Special Design

By the SAND-BLAST and other Patented processes.

CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,

Gold and Silver Embossed, and Transparent Glass Signs. Marbled Glass
for Ceilings. Estimates promptly furnished on application.

328-350 E. 26th Street, New York City.

ALPHABETICAL LIST OF ADVERTISERS.

The (E) indicates that the advertisement may be found in the last or the following issue: the (M) that it may be found in the first issue for each month.

A.	E.	K.	P.
Ades & Co., Fred.....xiii	Elektron Mfg. Co.....xiii	Kerr, C. P.....xiii	Paragon Construction Company.....(Cov.) 2
Aschmann & Fellner.....xiii	F.	Kerr, R. A.....xiii	Parsons, C.....xv
Allen's Cement Works.....xiii	Ferguson's Sons, John.....xviii	Kerr & Mathison Co.....xviii	Pacific Rolling Mill Co.....xv
American Boiler Co.....xv	Ferrand & Votey Organ Co.....xviii	Kerr, R. A.....xviii	Penn Elevator & Hoisting Co.....xv
American Fireproofing Co. (Baltimore).....xv	Fisher & Co., Robert G.....xviii	Kidder, F. E.....xv	Perth Amboy Terra-Cotta Co.....xv
American Mineral Wool Co.....xv	Fiske, Thomas & Co.....xviii	Kilbourne & Jacobs Mfg. Co.....xv	Phenix Iron Co.....xv
Apollo Iron & Steel Co.....(Cov.) 2	Fitzgerald, J. Leland.....xviii	Lamb & Ritchie.....xv	Pioneer Fireproof Construction Co.....xv
Armstrong & Co., Millard.....xv	Fleming Cement & Brick Co.....xviii	Lawrence Cement Co.....(Cov.) 4	Pitt, W. R.....xv
B.	Flynt Building & Construction Co.....xviii	Lord & Burroughs Co.....xv	Power, M. J.....xv
Babcock & Wilcox.....xv	Foy's Sewer Guard Co.....xviii	Lord & Burroughs Co.....xv	Pratt, R. & Co., John H.....xv
Baily & Truitt.....xv	French & Co., Samuel H.....xviii	Ludlow Saylor Wt's Co.....xv	Prentiss, J. B. & Son.....xv
Baltimore Roofing Tile Co.....xv	Frank, I. P.....xviii	M.	R.
Bardley, J.....xv	Frost & Adams.....(Cov.) 5	Mary & Gardner.....xviii	Handolph & Clowes.....xviii
Barnston, See & Elwell.....xv	G.	Marks, A. A.....xviii	Harlan Hollow & Forest Brick Co.....xv
Bell, George H. & Co.....xv	Globe Ventilator Co.....xv	Masqueray, E. L.....xv	S.
Belmont Iron Works.....xv	Gibbs Iron Works.....xv	Mathews Decorative Glass Co.....(Cov.) 5	Samson Cordage Works.....xviii
Berger Bros.....xv	Gorton & Lidgerwood Co.....xv	Maurer & Son, Henry.....xv	Smith & Anthony Stone Co.....(Cov.) 2
Berger Mfg. Co.....xv	Graves Elevator Co.....xv	McCray B. Refrigerator and Cold-Storage Co.....xv	Smith & Sons, H. B.....xv
Bickelshaupt, G.....(Cov.) 5	Gurney Heater Mfg. Co.....xv	McNally Glass Company.....xv	Spaulding & Mow.....xv
Blake Bell Co.....xviii	H.	Metallizing Co.....xv	Standard Elevator Co.....xv
Brand, James.....xv	Haberstroth & Son, L.....xv	Miller, J. & Bro.....(Cov.) 5	Stebbins Mfg. Co.....xv
Briggs, W. R. & Co.....xv	Haines, Jones & Casbury Co.....xv	Miller & Co.....xv	Stewart Carum & Co.....xv
Brooks, Shoenberger & Co.....xv	Hartman & Hollingsworth Co.....xv	Moore & Co., E. B.....xv	T.
Brooks, T. H. & Co.....xv	Hayes, Geo.....xv	Moore & Wyman.....xv	Taylor Co., N. & G.....xv
Brownville Maine State Co.....xv	Holmes, F. S.....xv	Morse, Williams & Co.....(Cov.) 5	Taylor, J. W.....xv
Buckeye Portland Cement Co.....xv	Howson & Howson.....xv	Mott Iron Works, J.....xv	Thiele, E.....xv
Burdell & Williams.....xv	Hydraulic-Press Brick Co.....xv	Murphy Varnish Co.....xv	Thorn, J. & Co.....xv
C.	I.	N.	Thorn Shingle & Ornament Co.....(Cov.) 4
Cahoon, Paul E.....xv	Indianapolis Terra-Cotta Co.....xv	National Lead Co.....xv	Tiffany Glass & Decorating Co.....xv
Cable, H.....xv	J.	National Wood Mfg. Co.....xv	Tiffany Frosted Brick Co.....xv
Central Expanded Metal Co.....xv	Jackson Architectural Iron Works.....xv	New England Felt Roofing Works.....xv	Tikkaor & Co.....xv
Charles, H. C. & Co.....xv	Jackson, E. A. & Bro.....xv	New Jersey Wire Cloth Co.....(Cov.) 4	Troy Laundry Machinery Co.....(Cov.) 4
Chicago Interior Decorating Co.....xv	Jackson & Co., Wm. H.....(Cov.) 4	N. Y. Architectural Terra-Cotta Co.....xv	V.
Chrome Steel Works.....xv	Jardine Brick Co.....xv	New York Metal Ceiling Co.....(Cov.) 5	Vails & Young.....(Cov.) 5
Cincinnati Corrugating Co.....xv	Jenkins Bros.....xv	Nightingale, S. C. & Childs.....xv	W.
Clark, Samuel & Co.....xv	Johnson Mfg. Co., H. W.....xv	Northrop, H. S.....xv	Waldo Bros.....xv
Clark, O. S.....xv	Johnson & Wilson.....(Cov.) 4	Northwestern Terra-Cotta Co.....xv	Warren Chemical & Mfg. Co.....xv
Clinton Wire Cloth Co.....xv	Jones, T. H.....(Cov.) 4	Ostrander & Co., J. O.....xv	White & O., Thomas.....xv
Comstock, Wm. T.....xv		Ostrander & Co., J. O.....xv	Whittier Machine Co.....xv
Continental Insurance Co.....xv		Ostrander & Co., J. O.....xv	Wicks Refrigerator Co.....xv
Correspondence School of Industrial Science.....xv		Ostrander & Co., J. O.....xv	Wilks Mfg. Co., S.....xv
Coselli, F. E.....xv		Ostrander & Co., J. O.....xv	Williams, John.....xv
Cutter Mfg. Co.....xv		Ostrander & Co., J. O.....xv	Wilson, Jas. G.....(Cov.) 4
D.		Ostrander & Co., J. O.....xv	Worthington, Henry H.....xv
Dashy Iron Works.....xv		Ostrander & Co., J. O.....xv	Y.
Deane, E. Elden.....xv		Ostrander & Co., J. O.....xv	Yale & Towne Mfg. Co.....xv
Davis & Co., F. W.....xv		Ostrander & Co., J. O.....xv	
Dexter Bros.....(Cov.) 5		Ostrander & Co., J. O.....xv	
Dixon Ornamental Co., Jos.....xv		Ostrander & Co., J. O.....xv	
Duggan, T. H.....xv		Ostrander & Co., J. O.....xv	

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th St.
NEW YORK CITY.

Designers and Manufacturers of...

MANTELS
OPEN FIREPLACES ..
GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 65 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.

PRIZE MEDALLISTS.

EXHIBITION OF 1862, 1865, 1867, 1873, 1876, AND ONLY AWARD AND MED.
NOISELESS, SELF-COLLING STEEL SHUTTERS AT PHILADELPHIA,
1876; PARIS, 1878; AND MELBOURNE, 1881.

CLARK, BUNNETT & CO. (Limited)

Late CLARK & COMPANY,

ORIGINAL INVENTORS AND SOLE PATENTEES OF NOISELESS

Self-Colling, Revolving **STEEL SHUTTERS** Fire & Burglar Proof.
Also Improved Rolling Wood Shutters, and Clark's Patent
Metallic Venetian Blinds.

The BEST in the Market. Send for Catalogues, etc., to
162 and 164 West 27th St. - New York.

ALSEN'S PORTLAND CEMENT

(GERMAN.)

The Strongest, Finest Ground and Most Uniform
Cement Made in the World.

The Largest Works and Greatest Production.
U. S. OFFICE, 143 Liberty Street, NEW YORK.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

We invite Correspondence.
Send for Catalogues.

HEAD OFFICE: **Gurney Heater Mfg. Co.**

163 Franklin St., Cor.
Congress, Boston, Mass.
SELLING AGENCIES: JOHNSON & Co., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

Endorsed by the leading
Architects and Engineers.



JAS. G. WILSON, Patentee and
Manufacturer,
74 West 23d St., New York.



N.J. STEEL & IRON CO.
TRENTON, N.J.
IRON AND STEEL BEAMS
CHANNELS, ANGLES & TEES
GOOPER, HEWITT & CO.
NEW YORK

TROY LAUNDRY MACHINERY CO.
[LIMITED.]

FACTORIES: 648-650 Fulton St., Troy, N. Y.
366-405 Fifth Ave., Chicago, Ill.

SALESROOMS: 15 Warren St., New York.
281-283 Mission St., San Francisco, Cal.



Our line the largest and most complete in the world.

Send for Illustrated Catalogue Z.



90-Paged Illustrated Catalogue
of over 250 Designs of
Superior
**WEATHER VANES,
TOWER ORNAMENTS,
CHURCH CROSSES,
FINIALS, ETC., ETC.**
Mailed to any address for 2-cent
stamp—half the postage.
T. W. JONES, Manufacturer,
170-172 FRONT ST., New York.



WHEELER'S PATENT WOOD FILLER.

The only Article to give a
DURABLE, ECONOMICAL, NATURAL and PERFECT FINISH to HARD WOOD
Send for Pamphlet Giving Information on Finishing Hard Wood.
THE BRIDGEPORT WOOD-FINISHING CO., NEW MILFORD, CONN.
BRANVILLE M. BREINIG, General Agent and Superintendent. New York Office, 240 Pearl St. Chicago, 206 East Lake St.
New England Agents: Charles Richardson & Co., 85 & 89 Oliver St., Boston, Mass.
At the World's Fair, Chicago, 1893, as at every place ever exhibited, our WHEELER'S PATENT WOOD FILLER and BREINIG'S
LITHOGEN SILICATE PAINT received medal and highest awards.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen. Agts.,
Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Masonry Materials. Send for Pamphlet.

THORN'S PATENT METALLIC ROOFING,

Tiles and Spring-Lock Shingles.
3 DESIGNS

The best, most handsome,
durable and secure roofing
plates yet offered to the
building trade. Indorsed
by all the leading archi-
tects. Send for catalogue.

**Thorn Shingle and
Ornament Co.,**
1227 Calverhill St., Philadelphia.

THE AMERICAN ARCHITECT

AND BUILDING NEWS

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

VOL. XLV.—No. 979.]

SATURDAY, SEPTEMBER 29, 1894.

PRICE, { REGULAR ISSUE, 15 CENTS.
IMPERIAL " 25 "

ARCHITECTURAL INSTRUCTION.

CHAMPAIGN, ILL.

UNIVERSITY OF ILLINOIS.
SCHOOL OF ARCHITECTURE.
Professor: N. Clifford Bicker.

CHICAGO, ILL.

ART INSTITUTE.
SCHOOL OF ARCHITECTURE.
Louis J. Millet.

NEW ORLEANS, LA.

TULANE UNIVERSITY.
Professor: Wm. Woodward.

BOSTON, MASS.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
DEPARTMENT OF ARCHITECTURE.
Professor: F. W. Chandler.

CAMBRIDGE, MASS.

HARVARD UNIVERSITY.
LAWRENCE SCIENTIFIC SCHOOL.
H. Langford Warren.

BROOKLYN, N. Y.

BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
DEPARTMENT OF ARCHITECTURE.
Louis De Coppel Berg.

PRATT INSTITUTE.
W. S. Perry.

ITHACA, N. Y.

CORNELL UNIVERSITY.
DEPARTMENT OF ARCHITECTURE.
Professor: Charles Babcock.

NEW YORK, N. Y.

ARCHITECTURAL ATELIER.
MASQUERAY-CHAMBERS.
123 East 23d Street, New York.
E. L. Masqueray. W. B. Chambers.
(Ecole des Beaux-Arts, Paris.) See page x.

COLUMBIA COLLEGE.
SCHOOL OF MINES.
SCHOOL OF ARCHITECTURE.
Professor: W. R. Ware.

COOPER INSTITUTE.
E. A. Miller.
E. F. Maurer.

INSTITUTE OF ARTIST-ARTISANS.
140 West 23d Street.
John Ward Stimson.

METROPOLITAN MUSEUM OF ART.
G. D. Bartholomew.
S. J. Temple.

PHILADELPHIA, PA.

DREXEL INSTITUTE.
DEPARTMENT OF ARCHITECTURE.
Arthur Truscott.

UNIVERSITY OF PENNSYLVANIA.
SCHOOL OF ARCHITECTURE.
Professor: Warren P. Laird.

ARCHITECTURAL BOOKS.

[Any book in this list will be forwarded, carriage paid, on receipt of the price by the advertiser.

CONSTRUCTION.

BERG, LOUIS D'G. Two Vols., each \$5.00.
"Safe Building."

CHANDLER, F. W. \$10.00.
"Construction Details."

Boston (211 Tremont St.): Heliotype Printing Co.

CLARK, T. M. \$3.00.
"Building Superintendence." Outa.

New York (66 Fifth Ave.): Macmillan & Co.

DRAWING.

GREGG, D. A. Four Parts, \$2.00 each.
"Architectural Rendering in Pen and Ink."

Boston (211 Tremont St.).

WARE, WILLIAM R., PROFESSOR, \$5.00.
"Modern Perspective."

New York (66 Fifth Ave.): Macmillan & Co.

WHITTIER MACHINE CO., ELEVATORS,

53 STATE STREET - - BOSTON.
93 LIBERTY STREET, NEW YORK.
526 13th STREET, N. W., WASHINGTON.

OTIS ELEVATORS,

THE STANDARD OF THE WORLD
For all kinds of
PASSENGER AND FREIGHT ELEVATOR SERVICE.

OTIS BROTHERS & CO.,
NEW YORK, BOSTON AND PHILADELPHIA.

The New Electric Elevator is the latest type, and can be run by the electric-light lines, at a very moderate cost.

ELEVATORS.

MOORE & WYMAN,
ELEVATOR AND MACHINE WORKS,
COR. GRANITE AND RICHARDS STS., SOUTH BOSTON.
STEAM AND HYDRAULIC,
For Freight and Passenger use.

ELECTRIC ELEVATORS. THE ELEKTRON MFG. CO.

Makers of high-grade Electric Elevators,
For passenger and freight service.
Large experience. Many in use.
First cost moderate.
Running Expense much less than Hydraulic.
Also makers of low-speed Perret Electric Motors and Dynamos.

General office and factory, Springfield, Mass.
NEW YORK OFFICE, 126 Liberty Street.
BOSTON OFFICE, 103 Milk Street.

MARBLE MOSAICS,

ROMAN AND VENETIAN STYLES,
For Floors, Walls, Ceilings, Mantels, Hearths, Decorations, etc. Prices very moderate. References, Principal Architects and Decorators of New York.
AESCHLIMANN & PELLARIN,
37 CLINTON PLACE,
Between Broadway and University Place, New York.

SANITARY CONDITION OF
DWELLINGS examined by T. H. DUGGAN,
Plumber, 141 DARTMOUTH STREET, BOSTON.
Fine Plumbing Materials. First-class Workmanship.
Telephone call. Tremont No. 185.

THE F. O. NORTON CEMENT

Sustains the entire weight of the East River Bridge.
OFFICE, 92 BROADWAY, NEW YORK.

STANDARD ELEVATOR CO.,

HIGHEST GRADE

PASSENGER }
AND } ELEVATORS.
FREIGHT }

OFFICE AND WORKS,

15th Street and Ashland Ave.,
Chicago, Ill.

PENN ELEVATOR ENGINEERING CO.

MANUFACTURERS AND BUILDERS.
PASSENGER AND FREIGHT ELEVATORS,
every description.
See our new Electric and Hydraulic before purchasing.
Works, Bloomsburgh, Pa.
Philadelphia Office, 516 Commerce Street.

FLYNT

BUILDING AND CONSTRUCTION CO.
GENERAL OFFICE, PALMER, MASS.

We contract to perform all labor and furnish all material of the different classes required to build complete
CHURCHES, HOTELS, MILLS, PUBLIC
BUILDINGS AND RESIDENCES.
Also for the construction of
RAILROADS, DAMS AND BRIDGES.

We solicit correspondence with those wishing to place the construction of any proposed new work under one contract, which shall include all branches connected with the work. To such parties we will furnish satisfactory references from those for whom we have performed similar work.

MAITLAND ARMSTRONG & CO.,

STAINED GLASS & DECORATIVE WORK.
Interior Decorations and work in American Mosaic Glass from the designs of Mr. Armstrong. English painted glass from the designs of Messrs. Clayton & Bell.
Sole Agents for
CLAYTON & BELL, GLASS STAINERS, LONDON.
61 Washington Square, South, New York, N. Y.

TIFFANY GLASS & DECORATING COMPANY.

FURNISHERS OF GLASS WORKERS DOMESTIC & ECCLESIASTICAL.
DECORATIONS.  MEMORIALS.
333 TO 341 FOURTH AVENUE, NEW YORK.

BATTERSON, SEE & EISELE

(Successors to A. L. FAUCHER & CO.),

Importers and Workers of

MARBLE, ONYX AND GRANITE,

425, 427, 429, 431 and 433 ELEVENTH AVE., N. Y.

ROBERT C. FISHER & CO.,

Successors to FISHER & BIRD,

MARBLE AND GRANITE WORKS,

97, 99, 101 and 103 EAST HOUSTON STREET,

Established 1830.

NEW YORK.

REMEMBER there are hundreds of brands of White Lead (so called) on the market that are not White Lead, composed largely of Barytes and other materials. But the number of brands of genuine

Strictly Pure White Lead

is limited. The following brands are standard "Old Dutch" process, and just as good as they were when you or your father were boys:

"ANCHOR" (Cincinnati).	"JEWETT" (New York).
"ARMSTRONG & McKELVY" (Pittsburgh).	"KENTUCKY" (Louisville).
"ATLANTIC" (New York).	"JOHN T. LEWIS & BROS. CO." (Phila.)
"BEYMER-BAUMAN" (Pittsburgh).	"MORLEY" (Cleveland).
"BRADLEY" (New York).	"MISSOURI" (St. Louis).
"BROOKLYN" (New York).	"RED SEAL" (St. Louis).
"COLLIER" (St. Louis).	"SALEM" (Salem, Mass.)
"CORNELL" (Buffalo).	"SHIPMAN" (Chicago).
"DAVIS-CHAMBERS" (Pittsburgh).	"SOUTHERN" (St. Louis and Chicago).
"ECKSTEIN" (Cincinnati).	"ULSTER" (New York).
"FAHNESTOCK" (Pittsburgh).	"UNION" (New York).

If you want colored paint, tint any of the above strictly pure leads with National Lead Co.'s Pure White Lead Tinting Colors, a pound of color to 25 pounds of lead. The best merchants sell them, the best painters use them.

A good many thousand dollars have been saved property-owners by having our book on painting and color-card. Send us a postal card and get both free.

NATIONAL LEAD CO., New York.

RITCHIE'S PATENT
CORRUGATED EXPANDING CONDUCTOR.
(See our advertisement last week.)
LAMB & RITCHIE, Cambridgeport, Mass.

GRAVES ELEVATORS
SAFETY, SPEED AND ECONOMY COMBINED
NEW YORK
32 & 34 WEST ST.
BOSTON
53 STATE ST.
DETROIT
HODGES BUILDING
ATLANTA, GA.
INMAN BUILDING.
GRAVES ELEVATOR CO.
ROCHESTER, N.Y.
SEND FOR CATALOGUE.

PORCELAIN LINED REFRIGERATORS
and Cooling Rooms under the Wickes System.
Mechanical Refrigeration under the Westinghouse System.
WICKES REFRIGERATOR COMPANY,
860 Broadway, N. Y.

Drawing-Office.

Drawings rendered in line or color with reasonable despatch.

ADDRESS

Editors of the American Architect.

WOOD-CARPET
THE VERY BEST MATERIAL FOR

BORDERS RUGS
FOR

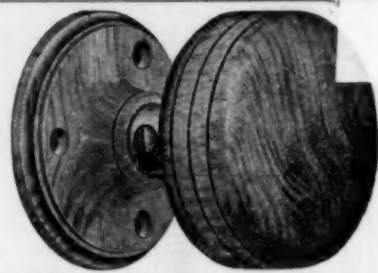
Also for Covering Parlors, Dining, Sitting and Bath Rooms, Libraries, Offices, Stairs, Stores, etc. Send stamp for Book of Designs.

E. B. MOORE & CO., 48 Randolph Street, Chicago, Ill.

ESTABLISHED 1853.

HOWSON & HOWSON,
COUNSELLORS AT LAW,
SOLICITORS OF PATENTS.

Philadelphia Offices: 119 South Fourth Street,
New York: Potter Building, 38 Park Row,
Washington, D. C.: 915 F. Street.



WOOD DOOR KNOBS,

DOOR SPRINGS AND CHECKS,
and CHECKING SPRING HINGES.

NEW GOODS. ——— NEW PRICES.
Send for new Price List.

J. BARDSLEY,

149 and 151 Baxter Street, NEW YORK



Unequaled for all purposes for which Portland Cement is used. Tests and Testimonials of Engineers, and "How to Use Portland Cement," sent free on application.

BUCKEYE PORTLAND CEMENT CO.,
BELLEFONTAINE, OHIO

THE H. B. SMITH COMPANY,

MANUFACTURERS OF

HEATING APPARATUS,

STEAM AND WATER,

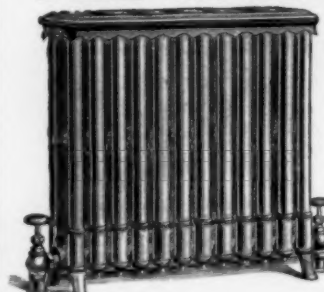
For Public Buildings and Private Residences.

SPECIALTIES:

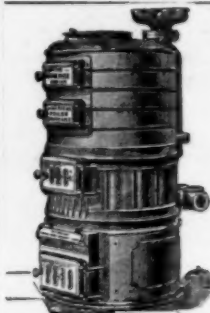
"THE UNION" Hot-water Radiators.
BRECKENRIDGE'S Patent Automatic Air Valves.
GOLD'S Improved Sectional Boilers.
MILLS'S Safety Sectional Boilers.
MERCER'S Patent Improved Sectional Boilers.
REED'S Improved Cast-Iron Radiators.
GOLD'S Indirect Pin Radiators.

Office and Warerooms, 137 CENTER ST., NEW YORK.

Foundry, Westfield, Mass. Catalogues sent on Application.



The "UNION" Radiator.



SPENCE
(TRADE MARK)

HOUSE HEATING BY STEAM AND HOT WATER.

The ARCHITECT, STEAMFITTER and PLUMBER,

All seem to be of one accord, and give our line of Heaters their approval, because they are

SIMPLE IN CONSTRUCTION, ECONOMICAL IN OPERATION,
POWERFUL AND RAPID IN PERFORMING THEIR WORK.

Write for Price Lists.

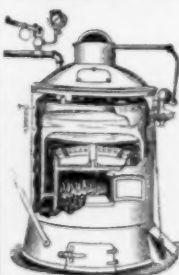
American Boiler Company

BOSTON, NEW YORK, CHICAGO, PORTLAND, ORE.
195 Ft. Hill Sq. 94 Center St. 84 Lake St. 127 6th St.

The "Peerless" STEAM AND HOT WATER HEATER.

The Simplest, Cheapest and Best.

MECHANICAL DEPARTMENT, PHILADELPHIA, PA.
The Peerless Boiler that I am using is giving good satisfaction.
JOHN WANAMAKER.



Agents Wanted.



HON. JOHN WANAMAKER.

SHAFT, PA., January, 1887.
I take pleasure in recommending the "Peerless" patent boiler for generating steam for house heating, as being Economical and Easier to Control and Manage than an ordinary base burning stove; the heat is very pleasant and uniform, and I would say that it takes less fuel than any apparatus I ever saw to produce the same amount of heat. With a Peerless No. 2 boiler our Wm. Penn Store is satisfactorily heated, which we could not do with heaters before.

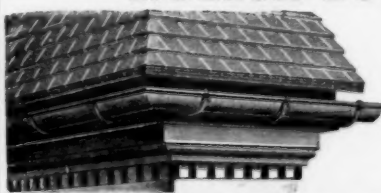
C. F. FOCHT, Manager.

For Catalogues, Testimonials, Terms, &c., address

GEO. H. BELL & CO., 41 Day St., New York City, N. Y.

Sole Agents for the United States.

NOTICE TO ARCHITECTS.



This cut shows the additional width, strength and beauty of an eave finished with a hanging, expanding Gutter hung with

"Berger's Favorite Hangers,"

now superseding every other device.

BERGER BROS.,

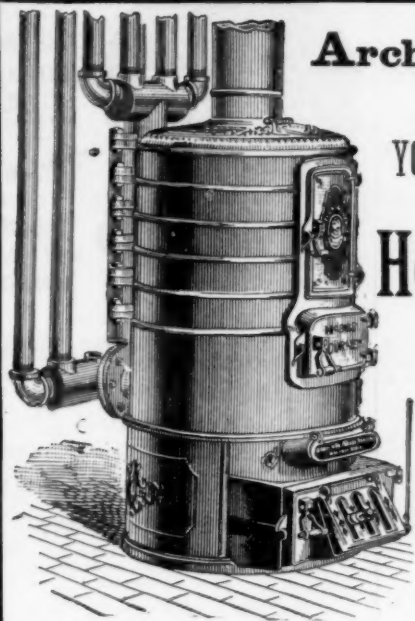
237 Arch Street, - PHILADELPHIA.

DIXON'S AMERICAN GRAPHITE PENCILS

FOR DRAUGHTING.

By mentioning *American Architect and Building News*, and sending 16 cents in stamps, you will receive an assortment of draughting pencils worth double the money, and unequalled for smooth, tough and uniform leads.

JOSEPH DIXON CRUCIBLE CO. - - JERSEY CITY, N. J.



GURNEY Hot-Water Heater.
300 SERIES.
For Hard or Soft Coal. Capacities 275 to 1,850 sq. ft.

FOR WARMING RESIDENCES AND MEDIUM-SIZED
BUILDINGS BY HOT-WATER CIRCULATION,
They are Unequalled.



"DEFIANCE" Hot-Water Heater.

Capacity, 130 and 200 sq. ft.
FOR WARMING SMALL BUILDINGS,
OFFICES, ETC., BY HOT-WATER
CIRCULATION,
and also used in Coach-Houses,
Laundries, Bath, etc., for furnish-
ing hot water.

GURNEY STEAM BOILER

ENTIRELY NEW.

Maintains Steady Water Line.
Will not Foam.
Suited to all Classes of Buildings.

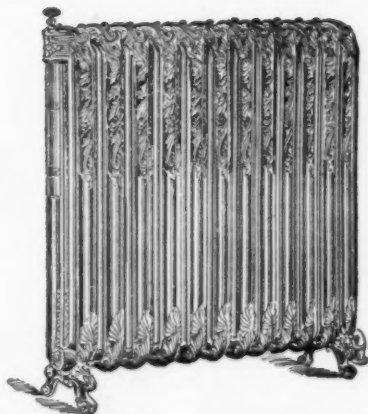


PERSPECTIVE VIEW.

Architects and Builders
WE INVITE
YOUR SPECIAL ATTENTION TO
Our Extensive Lines of
Hot-Water Heaters,
STEAM BOILERS
AND
RADIATORS.



"YALE" QUINTET,
FOR HOT WATER OR STEAM.
Efficient, Artistic and Well Constructed.



"GURNEY" RADIATOR, FOR HOT WATER.

SEND FOR LATEST CATALOGUES.

GURNEY HEATER MFG. CO.

163 Franklin St., cor. Congress,
Boston, Mass.

SELLING AGENCIES:

JOHNSON & CO., 71 John St., New York City and Vicinity.
J. C. F. TRACHSEL, 246 Arch St., Philadelphia and Vicinity.
A. A. GRIFFING IRON CO., 34 Dearborn St., Chicago and Western States.



Double Crown Hot-Water Heater.
Made in 3 Sizes, A, B or C. Capacities, 750 to 6,000 sq. ft.

CONSTRUCTED ON MOST APPROVED SCIENTIFIC
PRINCIPLES OF CIRCULATION AND ECONOMY.

Especially adapted to large Buildings where
great power with economy
are desired.



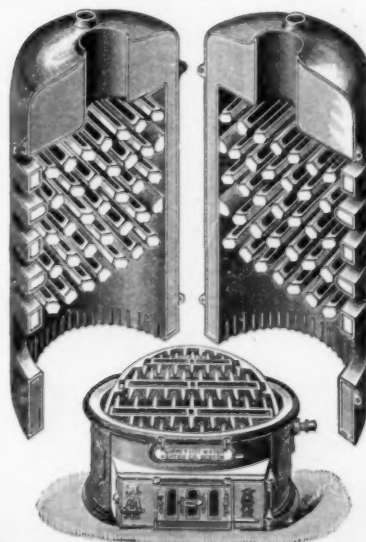
DEFIANCE STEAM BOILER.

Capacities, 125 and 175 sq. ft.
For Warming Small Build-
ings, Offices, etc., by Steam.

GURNEY STEAM BOILER

ENTIRELY NEW.

CONTAINS MOST EFFECTIVE HEATING SURFACE.
Simple in Construction and Erecting.
Can be Easily and Thoroughly
Cleaned.



SECTIONAL VIEW.

CLINTON WIRE-CLOTH CO.,

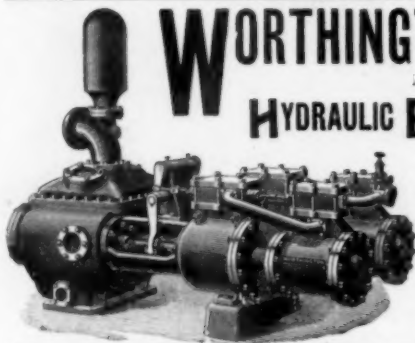
Sole Proprietors and Manufacturers of

WIRE LATH**DOUBLE TWIST WARP
STIFFENED (Iron furred)
CLINTON CORRUGATED**

Plain, Japanned or Galvanized.

The Most Perfect and Economic System of FIREPROOF Construction.

SEND FOR CIRCULAR.

BOSTON, NEW YORK, CHICAGO, FACTORY,
199 Washington St. 76 Beekman St. 137 Lake St. CLINTON, MASS.**WORTHINGTON STEAM PUMPS**

ARE THE STANDARD FOR

HYDRAULIC ELEVATOR AND HOUSE SERVICE.

Send for New Illustrated Catalogue.

Henry R. Worthington,NEW YORK, 86 & 88 Liberty St.
BOSTON, 70 Kilby St.
PHILADELPHIA, 607 Arch St.
CLEVELAND, 24 South Water St.
CHICAGO, 185 to 189 Van Buren St.
ST. LOUIS, Eighth & St. Charles Sts.**Welded Chrome Steel and Iron. (5 ply)**

We are the only manufacturers of Chrome Steel in the United States.

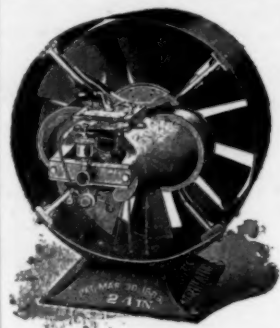
None genuine unless stamped with our Trade Mark.

FOR SAFES AND VAULTS

Positively Burglar-proof, cannot be Cut, Sawed, or Drilled,

CHROME STEEL WORKS, Brooklyn, N. Y.

BUILDING MATERIALS.	New York.	Boston.	Chicago.	Philadelphia.
BRICK.—P. M.	(Wholesale)	Prices.	(Prices to Builders and	Contractors.)
Common: Cargo ahead.			Building Brick	In Yard.
Pale.....	1 50 @ 1 75		4 50 @ 5 00	Sq. Hard @ 9 00
Jersey.....	3 75 @ 4 25			" @ 7 00
Long Island.....	@			Salmon @ 5 00
Up River.....	3 75 @ 4 50	Domestic Com.		Sq. " @ 9 00
Haverstraw Bay 2d.....	4 00 @ 4 25	8 50 @ 9 50		Light Stretchers
" 1st.....	4 37 1/2 @ 4 50	Domestic Face	Indiana Pressed	Medium " @ 10 00
Hollow.....	@ 13 00	18 00 @ 25 00	14 00 @ 20 00	Red " @ 12 00
Fronts:		Philadelphia }	St. Louis Fronts	Dark " @ 13 00
Croton, Brown.....	9 00 @ 12 00	35 00 @ 40 00	@ 27 00	Pressed " @ 13 00
" dark.....	10 00 @ 13 00	Phila. mould }		Best Paving " @ 14 00
" red.....	10 00 @ 13 00	50 00 @ 80 00		Second " @ 13 00
Chicago pressed (Anderson).....				Third " @ 12 00
" Moulded.....				Dom. " @ 65
Baltimore.....	37 00 @ 41 00	Enamelled B'k.	15 00 @ 27 00	
Philadelphia.....	22 00 @ 23 00	Imported.	65 00 @ 350 00	
Trenton.....	@ 19 00	Enam. (edge)	@ 55 00	
Milwaukee.....		95 00 @ 105 00	45 00 @ 50 00	
Moulded:		" (edge & end)	45 00 @ 50 00	
Glens Falls Red Pressed.....	@ 37 00	115 00 @ 120 00	25 00 @ 30 00	
" " Buff.....	@ 30 00	Domestic.	60 00 @ 100 00	
" " Moulded Red & Buff.....	45 00 @ 70 00	Enam. (edge)	30 @ 35	
Enamelled: Imp.		90 00 @ 100 00	55 00 @ 65 00	
Enamelled (edge).....	85 00 @ 100 00	" (edge & end)	@ 100 00	
Enamelled (edge and end).....	90 00 @ 115 00	110 00 @ 115 00	@ 120 00	
CEMENT, LIME, etc.—(P. M.)				
Rosendale Cement.....	80 @ 90	1 15 @ 1 25	Not sold.	1 30 @ 1 50
Louisville.....		Brooks, S. & Co.	1 05 @ 1 15	BS&Co 2 75 @ 3 00
Union, Akron, Buffalo, Milw'kee.....	Not sold.	2 40 @ 2 75	1 00 @ 1 10	2 85 @ 3 25
Portland, English (Gibbs).....	2 25 @ 2 50	2 40 @ 2 75	3 00 @ 3 10	2 85 @ 3 15
" " (K. B. & S.).....	2 50 @ 3 00	2 40 @ 2 75	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross.....	2 25 @ 2 50	2 40 @ 2 75	3 00 @ 3 25	2 85 @ 3 15
" " (Burnham).....	2 50 @ 2 50	2 40 @ 2 75	2 90 @ 3 15	2 75 @ 2 85
" " (White's).....	2 65 @ 3 00	2 40 @ 2 75	3 00 @ 3 25	
" " French (Lafarge).....	3 00 @ 3 75	@ 5 00	3 75 @ 4 25	
" " German (Aisen).....	2 90 @ 3 25	3 00 @ 3 50	3 20 @ 3 40	
" " (Fewer).....	2 25 @ 2 40			
" " (Vorwiler).....	2 50 @ 2 90	Cleopatra	2 75 @ 3 00	
" " (Dyckerhoff).....	2 60 @ 2 90	2 40 @ 2 75	3 25 @ 3 50	
" " (Hanover).....	2 50 @ 3 00	3 00 @ 3 50	Not sold.	
" " Stettin (Anchor).....	2 35 @ 2 85	" "	Not sold.	
" " American (Saylor's).....	2 15 @ 2 25	" "	2 00 @ 2 70	
Roman.....	2 75 @ 3 00	@ 3 50	2 75 @ 3 25	
Keene's coarse.....	4 50 @ 5 30	@ 6 00	6 00 @ 7 00	
" superfine.....	5 00 @ 5 50	7 00 @ 9 00	9 00 @ 10 50	
Lime:				
Lime of Tell.....	3 50 @ 4 00		Not sold.	White Lime P bush
Hydraulic Lime.....	@ 1 45	@	1 05 @ 1 15	25 @ 30
Chicago Lime in bulk.....	{ St. John 85	St. John 90	60 @ 70	{ White Mash
Wisconsin Lime.....	@ 80	@ 95	60 @	1 25 @ 1 50
Rockland and Rockport, (Com.).....	@ 1 00	@ 1 00	Not sold.	1 00 @ 1 00
Rockland and Rockport, finish.....	@	@	Not sold.	
Kelley Island Lime, finish.....	@ 80	Not sold.	1 00 bulk, 75c.	
State, com. cargo rates (nom.).....	1 05 @ 1 10	Not sold.	Not sold.	
State, finishing.....	1 40 @ 1 50	1 55 @ 2 00	1 85 @ 1 90	
Plaster of Paris (alcinated).....	@ 1 60	@ 2 25	1 85 @ 1 90	
" (casting).....	18 @ 21	25 @ 30	16 @ 20	
Hair (Cattle) P bush.....	21 @ 25	30 @ 35	30 @ 35	
" (Goat).....	1 00 @ 1 25	1 75 @ 1 90	@ 60	
Sand, P load.....				
STONE. (P cubic foot, rough.)				
Granite: (Maine)		@ 60		
Limestone:				
Bedford.....	45 @ 1 25	95 @ 1 00	50 @	
Joliet.....	1 00		35 @ 55	
Lemont.....			3 @ 60	
Serpentine.....		10 50 per ton	@ 1 00	

KEEP COOL
BY USING
THE SMITH
VENTILATING
FAN.KEEP WARM
BY USING
THE SMITH
HOT BLAST
APPARATUS.

Both Manufactured by

THE HUYETT & SMITH MFG. COMPANY,
Heating and Ventilating Engineers,
DETROIT, MICH.

Write for Catalogue, mentioning this paper.

**MCCRAY REFRIGERATOR AND
COLD STORAGE CO.,**Cooling Rooms for public Institutions, Hotels,
Fine Residences, Groceries, and
Meat Markets.

KENDALLVILLE, IND.

CHICAGO OFFICE: 42-157 Washington St.

CATALOGUE
FOR 1894 OF
Architectural Books.

SEND FOR CLEARANCE CIRCULAR.

WM. T. COMSTOCK, Pub., 23 Warren St., N. Y.

**NEW ENGLAND
FELT ROOFING
WORKS.**

22 MILK ST., BOSTON.

Originators of Felt Roof-
ing in New England.Inventors and only Manu-
facturers of the Celebrated

"BEEHIVE BRAND."

BURDITT & WILLIAMS,
Representatives of Leading Manufacturers of
-- BUILDERS' HARDWARE. --
Refer to the prominent Architects of Boston,
New York and Washington, as well as to many
of the finest Public Buildings and Residences
in all parts of the United States.
Branch Office, 20 Dock Square,
WASHINGTON, D. C. BOSTON, MASS.**Heliotype Printing Co.,**

211 Tremont Street, Boston.

ESTABLISHED 1872.

• **PHOTO-LITHOGRAPH.**• **PHOTO-COLOR-LITHOGRAPH.**• **PHOTO-GELATINE.**• **PHOTO-GRAVURE.**• **PHOTO-ENGRAVING.**COPIES OF ARCHITECTURAL,
MECHANICAL AND OTHER
DRAWINGS, MAPS, PLANS, ETC.,
PORTRAITS, VIEWS AND ALL
BOOK ILLUSTRATIONS.**Heliotype Printing Co.**



A CAMP IN THE ADIRONDACKS

treated with

CABOT'S CREOSOTE BLEACHING OIL

to get the

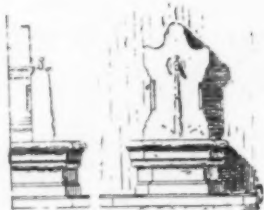
SILVER-GRAY EFFECT.

Creosote Bleaching Oil is a thin, almost colorless material which when first applied overcomes the raw, yellow look of the new wood and in a short time causes it to assume the silken, silvery tone which is so much admired on shingled houses. This change is brought about by the action of the sun and rain upon the bleaching ingredient contained in the Oil, which purifies the Cellulose upon the surface of the shingles, giving a beautiful gray which would require years of exposure of untreated wood to obtain. The Creosote entirely prevents decay, and also prevents mildew, which very frequently causes untreated shingles to turn black. A great advantage of the Oil over the Gray Stains is that it will never have to be renewed, but grows constantly more beautiful with age.

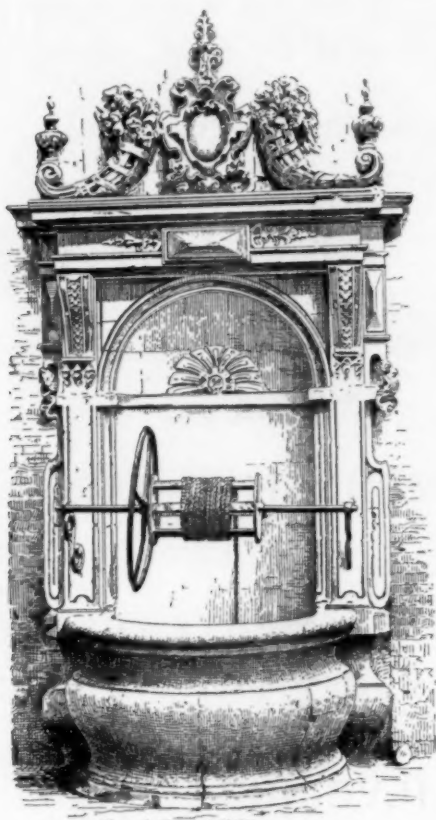
Samples of Bleaching Oil or the Gray Stains will be sent on application.

SAMUEL CABOT, - - Sole Manufacturer,

Agents at all Central Points. **70 Kilby St., BOSTON, MASS.**



Water Posts.

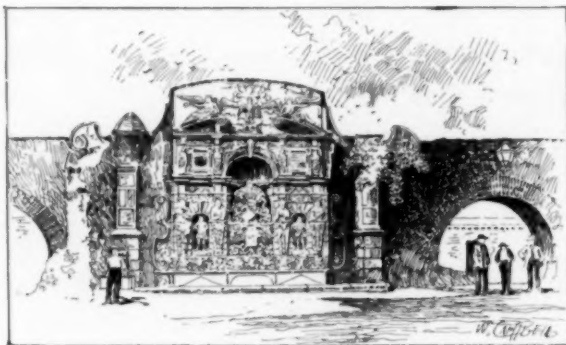


C. Dargaud.

Well at Toulouse, France.



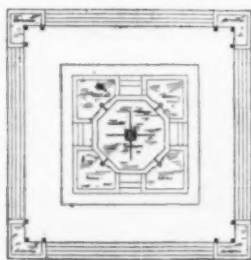
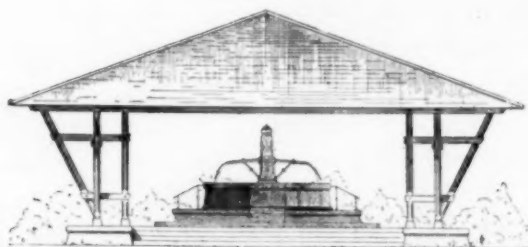
Font, Tverreo Church, Sweden.



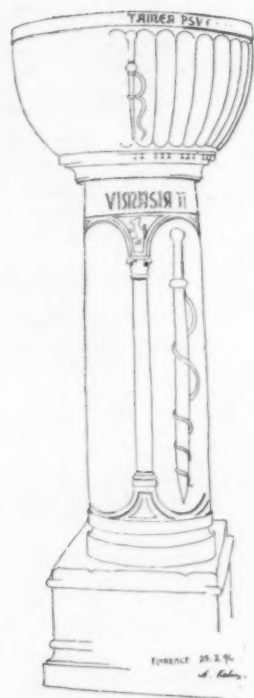
Fountain, City of Mexico.



Well at Kerjean, France.



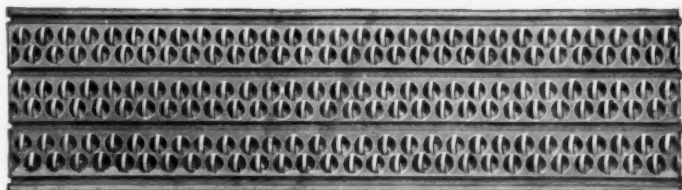
Fountain, Laundry and Watering-Place combined.

FONTE 25.2.96
A. B. B.

FONTS AND FOUNTAINS.



"Piqua" Steel Lath.



"Piqua" Lath is made from the best quality of steel, in sheets 27¼ x 48 inches, and each sheet covers exactly one square yard of surface. The corrugations shown in cut are 3¼ inches between centers, thus insuring the greatest rigidity. Samples and prices on application.

THE CINCINNATI CORRUGATING CO., Box 330, Piqua, Ohio.

MERCHANT & CO., Incorporated,

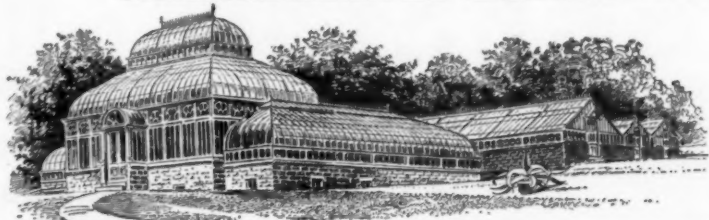
Sole Manufacturers of the



STAR VENTILATOR

MADE OF GALVANIZED OR LEAD-COATED SHEET-IRON, COPPER OR BRASS.

HITCHINGS & CO., Established 50 years.
HORTICULTURAL ARCHITECTS AND BUILDERS
and largest Manufacturers of
GREENHOUSE HEATING AND VENTILATING APPARATUS.



The highest awards received at the World's Fair for Horticultural Architecture, Greenhouse Construction and Heating Apparatus. Conservatories, Greenhouses, Palmhouses, etc., erected complete with our Patent Iron Frame Construction.

Send four cents for Illustrated Catalogues.

233 MERCER STREET, N. Y. CITY.



Manufacturers of

"CHAMBERS EAGLE BRAND"

Window Glass

1st Quality.



2d Quality.



3d Quality.



26oz. CRYSTAL SHEET.

This Glass is almost equal to Polished Plate,
And less expensive.

Packed with paper between each light
to prevent scratches.

SEND FOR PRICE LISTS.

CHAMBERS GLASS CO.

New Kensington, Pa.

Branch Office:
1442 Monadnock Block,
CHICAGO, ILL.

James A. Miller & Bro.

Slate
Tin
Tile and Iron

Roofers . . .

Galvanized Iron and Copper

Cornices, Bays
Skylights, etc.



Special Attention . . .
to Large First-class Work
Fully Guaranteed.

Our facilities, resources and experience are such that we feel able to compete for large work in our line, almost anywhere in the United States, and will be particularly pleased to do so now when there is so little work going on in this city.

129-131 South Clinton Street,
Chicago.

SAMUEL FARQUHAR.

ESTABLISHED 1836.

DAVID W. FARQUHAR.

JOHN FARQUHAR'S SONS.

Slate, Copper, Tin and Gravel Roofing.

Nos. 20 and 22 EAST STREET, BOSTON.

Order Box at Master Builders Association,
164 Devonshire Street.Special attention given to Repairs
of all kinds.

Inventors and owners of Farquhar's Patent Slate Fasteners, for securing slates to iron roofs, acknowledged to be the strongest method in use, and has been applied to many of the best constructed and largest buildings in this country.

Contracts made for Work wherever desired.

ASPHALT ROOFING AND PAVING MATERIALS.

WARREN'S "ANCHOR BRAND" NATURAL ASPHALT ROOFING. WARREN'S NATURAL ASPHALT READY ROOFING.

Send for circulars, samples and specification forms to

WARREN CHEMICAL & MFG. CO. 81 & 83 Fulton Street, NEW YORK, U.S.A.

WHY WASTE WORDS
ON JENKINS BROS.They're Tight {
ON STEAM.
ON OILS.
ON ACIDS.
ON WATER.
ON GAS.

VALVES?

We make, sell, and
guarantee them, and
that's all there is to say.

New York. Boston. JENKINS BROS., Philadelphia. Chicago.



HEATING SPRING AND FALL

can be healthfully and economically effected by placing
a Jackson Ventilating Grate in the hall or parlor
fireplace.

Send for Catalogue B.

EDWIN A. JACKSON & BRO., 50 Beekman St., New York.



YALE LOCKS

BLACKCROSS PORTLAND CEMENT

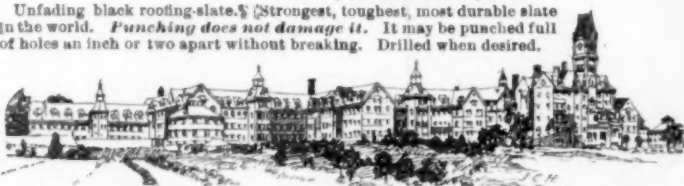
IS BEST QUALITY AND USED ON IMPORTANT WORKS.

FLEMING CEMENT & BRICK CO.,

IMPORTERS ROMAN, KEENE'S, VICAT CEMENTS, 23 Liberty Street, NEW YORK.
ENGLISH GLAZED BRICKS.PAUL E. CABARET (Successor to SPADONE & CABARET),
BRONZE AND BRASS WORK OF ALL KINDS
For Banks, Churches, Mausoleums, etc. Doors and Gates a specialty.
Send for Catalogue. Herring Building, Junction of 9th Ave. & 14th Street, New York.

BROWNVILLE MAINE SLATE COMPANY.

Office, WORCESTER, MASS.

Unfading black roofing-slate. Strongest, toughest, most durable slate
in the world. Punching does not damage it. It may be punched full
of holes an inch or two apart without breaking. Drilled when desired.

STATE LUNATIC ASYLUM, WORCESTER, covered with our Slate.

Toughest
Slate,
Fewest
Leakages.
Oldest
quarry
in Maine.

Absolutely



Fire-Proof.



MAGNESIA

SECTIONAL

STEAM PIPE AND BOILER COVERINGS.

THE GREAT COAL-SAVER.

SELLING AGENTS:

Boston, S. C. Nightingale & Childs, 134 Pearl St.
New York, Robert A. Keasbey, 54 Warren St.
Philadelphia, Macan & Co., 1429 Callowhill St.
Baltimore, Wallace & Bro., 432 E. Pratt St.
Washington, Wm. B. Morgan, Builders' Ex'c.
New Orleans, Delbert Engineering Co., 23
Union St.
Memphis, Symmes & Co., 192 Front St.

MANUFACTURED BY

THE KEASBEY & MATTISON CO.,

CINCINNATI: 114 West Second St.

AMBLER, PA.

CLEVELAND: 117 Water St.

SELLING AGENTS:

Milwaukee, F. Sprinkman, 133 Sycamore St.
Louisville, W. W. Hite & Co., 176 Fourth St.
St. Louis, F. Boeler, 108 Walnut St.
Detroit, S. P. Conkling, 20 Atwater St., East.
Denver, C. W. Badgley & Co., 18th & Market Sts.
Salt Lake City, Utah & Montana Machinery Co.
Butte City, Mont., R. W. James.
San Francisco, DeSolla & Deussing, 2 California St.

ASPHALT FLOOR ROOF
SIDEWALKS AND CARRIAGE-WAYS
Of Public Buildings, Hospitals,
Warehouses, Stables, Cellars, etc.
Laid with VAL de TRAVERS ROCK ASPHALT,
DURABLE, FIREPROOF AND IMPERVIOUS.
For estimates and list of works executed, apply to
THE NEUCHÂTEL ASPHALT CO., Limited,
265 BROADWAY. - - - NEW YORK.

Brown's Patent Seamless
DRAWN COPPER HOUSE BOILERS.

Cannot collapse.
Will not leak.
Ordinary boiler tested to 200 lbs.
Extra heavy tested to 300 lbs.
Made of two seamless drawn copper
shells.
Handsome, best and strongest
in the market.
Send for circular giving instructions
for prevention of accident.

MANUFACTURED SOLELY BY

RANDOLPH & CLOWES,
Waterbury, Conn.

Western Depot: 71 West Washington
St., Chicago. Branch Offices: 104
John St., New York; Room 320 Phila-
delphia Bank Building, Philadelphia;
90 Milk St., Boston; Room 208, Neave
Building, Cincinnati.

Proprietors of the Brown & Bros. Tub-
ing and Boiler Works, and the Brown &
Bros. Brass and Copper Rolling Mills.

Makers of SEAMLESS AND BRAZED TUBING OF ALL KINDS.

Chicago Interior Decorating Co.

Bank, Office & Club
Equipments.Mantels, Tiles, Ceramic Mosaics
FINE SPECIAL FURNITURE.

Highest grade of first class goods.
Drawings and Estimates furnished upon application.
149 & 150 Michigan Ave., Chicago, Ill.

Formerly occupied by the Henry Dibblee Co.

BLAKE BELL CO.

Successors to Wm. Blake & Co.
Bell Founders and Brass Finishers.Castings in any metal
except iron.Monumental Tablets, Artistic
Brass Work.

Allen and Brighton Sts., BOSTON.

J.W. TAYLOR'S PHOTOGRAPH SERIES.

151 MONROE ST. CHICAGO. OF AMERICAN ARCHITECTURE.

Removed to Owings Building.

Send two 5 cent stamps for Catalogue.

PARQUET FLOORS.

The National Wood Manufacturing Co.,

129 5th Avenue, New York.



WAINSCOTINGS and CEILINGS.

Inlaid Wood Floors 5-6 and
7-8 inch thick.Solid work, Tongued and Grooved
in each piece.Designs & Estimates on applica-
tion. Established 1867.

POINTS ON VARNISH.

NO. 273.—UNCLE HAYSEED

was greatly astonished when the city physician refused to treat his eyes, and sent him to an oculist. He thought the eye was such a little thing that any doctor would know all about it. He nearly fainted when told that if his teeth or his ears troubled him he would be sent to a dentist or an aurist. "What!" he exclaimed, "have you a different doctor for every part of a man's body?" Life was too short to explain the progress of science by which every specialist now makes use of ten times the knowledge and skill that formerly sufficed the all-round practitioner.

Varnish alone engages more scientific knowledge than our grandfathers put into the whole building. It is a little thing but it requires skill as delicate and fine as the treatment of the eye. You can ruin your eyes with ill-fitting spectacles. You have an expert's examination and get your glasses made on the most exact prescription. We make scientific varnishes for the various needs of architectural work. Let us know what it is for, and we'll send you the exact thing.

MURPHY VARNISH CO
FRANKLIN MURPHY, President.

Head Office: Newark, N. J.
Other Offices: Boston, Cleveland, St. Louis, Chicago.
Factories: Newark and Chicago.

TO ARCHITECTS:

If you desire to recommend a firm as one thoroughly capable of supplying *complete* furnishings for a hotel, club-house or private residence, you can mention us *with confidence*.

We supply CARPETS, RUGS, UPHOLSTERY FABRICS, FURNITURE, ETC., ETC.

Our goods are right; our prices are right.

We make a specialty of *private and exclusive patterns* which cannot be duplicated elsewhere.

John H. Pray, Sons & Co.,
658 Washington Street,
Opposite Boylston Street,
BOSTON.

F. W. DEVOE & CO.

(Established 1852.)

Fulton St., cor. William, New York.
No. 176 Randolph St., Chicago.

Pure Ready-mixed Paints.

We desire to call attention of consumers to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil and the most permanent pigments. They are not "Chemical," "Rubber," "Patent," or "Fireproof." We use no secret or patent method in manufacturing them by which benzine and water are made to serve the purpose of pure linseed-oil.

Sample cards, containing fifty desirable shades sent on application.

FINE VARNISHES.

Hard Oil-Finish & Wood-Stains.

Illustrated Catalogue of Engineers' and Architects' Supplies, 250 pages, 700 Illustrations, on request.

White-Lead Colors in Oil and Japan.

THE DECORATIVE GLASS

in Abbey's Theatre, N. Y., and Keith's Opera House, Boston, are examples of Renaissance and Rococo designs, the movement, carried out entirely in our hard metal settings.

METALLIC SETTING CO.,
137 Weybosset St., PROVIDENCE, 5 Park Sq., BOSTON.

H. W. JOHNS' SHINGLE STAINS

Prepared ready for use from the Purest Pigments and best Wood Preservative known. We will send upon request a full set of samples on wood, showing Silver Grays, Moss Greens and many handsome weather stained effects. These are permanent, durable stains.

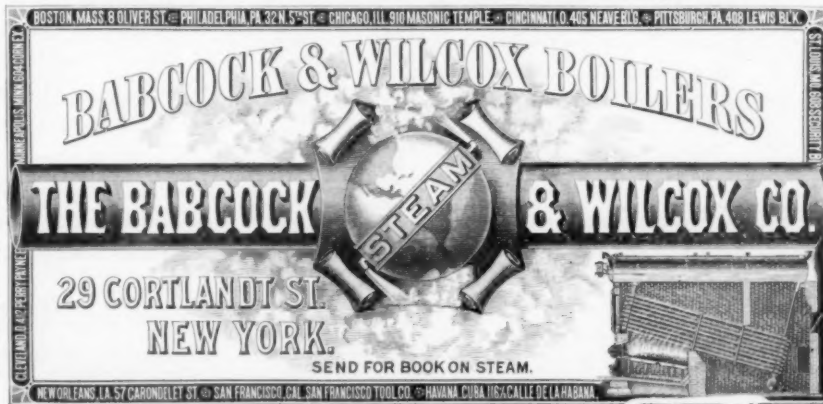
H. W. JOHNS MFG CO., 87 MAIDEN LANE, NEW YORK.
NEW YORK, JERSEY CITY, CHICAGO, PHILADELPHIA, BOSTON.



STAMPED STEEL CEILINGS
MANY DESIGNS
H. S. NORTHROP
Manufactures,
30 ROSE ST
NEW YORK

JOHN WILLIAMS, 544 to 556 West 27th Street, New York.
WROUGHT IRON AND BRASS WORK TO SPECIAL DESIGNS ONLY.
REFERENCES: Tiffany & Co., N. Y.; Cottier & Co., N. Y.; L. Marcotte & Co., N. Y.; McKim, Mead & White, N. Y.; Babb, Cook & Willard, N. Y.; Bruce Price, N. Y.; R. M. Hunt, N. Y.; Bailey, Banks & Biddle, Phila.; Frank Hill Smith, Boston.; A. H. Davenport, Boston.

Awarded the Grand Prize at the late Paris Exposition.



BABCOCK & WILCOX BOILERS
THE BABCOCK & WILCOX CO.
29 CORTLANDT ST.
NEW YORK.
SEND FOR BOOK ON STEAM.

BOSTON, MASS. 8 OLIVER ST. PHILADELPHIA, PA. 32 N. 5TH ST. CHICAGO, ILL. 910 MASONIC TEMPLE. CINCINNATI, O. 405 N. VENERE ST. PITTSBURGH, PA. 408 LEWIS BCK.
NEW ORLEANS, LA. 57 CAROLINE ST. SAN FRANCISCO, CAL. SAN FRANCISCO TOOL CO. HAWAII, CUBA, HISCALLE DE LA HABANA.

P. **Reading, Pa.**—A number of improvements will

The Harlan & Hollingsworth Co.

METROPOLITAN LIFE BUILDING, DREXEL BUILDING, MONADOCK BUILDING, DASHWOOD HOUSE,
NEW YORK. PHILADELPHIA. CHICAGO. LONDON.



Announce to all who contemplate *building or renovating*
Hotels, Office Buildings or Residences, that they have
formed a department in their extensive works for

**Architectural Woodwork,
Fine Cabinet Work, and
Interior Finishing.**

Plans, designs, specifications and further particulars will be submitted on ap-
plication. Address **WORKS AT WILMINGTON, DEL.**

BUILDING INTELLIGENCE.

(Advance Rumors Continued.)

made to the County Almshouse, including a brick
and stone building for slaughtering purposes, ice-
house and refrigerator. Further information may
be obtained from W. Oscar Miller, County Solicitor.

Silverdale, Pa.—It is rumored that a three-story
building will be erected by a Stock Co.; first floor
will be fitted up for stores, the second for offices and
the third as a public hall.

Washington College, Tenn.—New buildings for
Washington College, to cost about \$18,000, will be
built.

Washington, D. C.—Charles Early will build 2
three-story brick and stone dwellings, on 21st St., bet.
R and S Sts.

A three-story, 40' x 70' stone and terra-cotta house
will be built in the n w section of the city for a
Western lady; arch., T. F. Schneider, 18th and 2d
Sts.

George C. Videtto will build a block of 12 two-story
and cellar brick and stone dwellings, on Scott Ave.,
bet. 6th and 7th Sts.

Wheeling, W. Va.—J. G. Gallagher of Moundsville,
proposes to build a business block.

ALTERATIONS AND ADDITIONS.

Atlanta, Ga.—Enlargement of Aragon Hotel to cost
\$40,000.

Fort Worth, Tex.—Alteration to the Pickwick
Hotel to cost about \$40,000.

Hartford, Conn.—*Elm St.*, one-story brick addition
to First Regiment Armory, 50' x 62'; arch., George
Keller; contract not let.

Norristown, Pa.—The Norris City Hotel will
undergo extensive improvements including an addi-
tional story, with French roof, handsome open
airway, new plumbing, etc.; Joseph Bradley, prop-
rietor; con., Shaffner Bros.

Philadelphia, Pa.—*Bamberg St.*, w s n Poplar St.,
interior alterations to and additional brick story on
two-story dwell. and stable; own., R. A. Hummel;
con., Louis Walter & Sons, 2816 Goldbeck St.
Wood St., n e cor. 17th St., one-story brick addition,
32' x 37', to the Central Manual Training School;
con., William Chestnut, 1431 Morris St.

Washington, D. C.—The house at 218 Four-and-a-
half St., will be remodelled for hotel purposes;
arch., A. B. Morgan, 923 F St.

APARTMENT-HOUSES.

Chicago, Ill.—J. M. & M. H. Reilly, 2 two-story brick
flats, 620-622 Colorado Ave.; \$9,000.

John Massep, three-story brick flats, 779 Turner
Ave.; \$5,000.

Kate Henley, two-story brick flats, 454 Vincennes
Ave.; \$5,000.

C. Kleizak, two-story brick flats, 23 Chapin St.;
\$1,000.

C. Johnson, 2 three-story brick flats, 4451-4453 Sher-
man St.; \$6,000.

C. Johnson, three-story brick flats, 4452 Wallace
St.; \$3,000.

H. Rehm, three-story brick flats, 1 Samuel St.;
\$3,000.

M. Ryan, two-story brick flats, 1712-1714 Humboldt
Boulevard; \$7,000.

C. F. Neiffer, two-story brick flats, 639 Millard Ave.;
\$3,500.

Mrs. F. C. Kennedy, two-story brick flats, 174
Harrison Ave.; \$6,500.

J. L. Gregorie, two-story brick flats, 1106-1108 Lawndale
Ave.; \$8,000.

F. Baumgarten, three-story brick flats, 40 Alexander
Ave.; \$5,000.

W. Frink, three-story brick flats, 3535 Archer Ave.;
\$3,000.

W. Frink, 2 two-story brick flats, 3634-3642 Cham-
plain Ave.; \$3,000.

D. B. Mahoney, two-story brick flats, 1560 Sixteenth
St.; \$3,500.

S. A. Purcell, two-story brick flats, 755 Turner Ave.;
\$1,000.

A. Bauer, two-story brick flats, 870 Clifton Park
Ave.; \$3,000.

Ed. Shea, three-story brick flats, 1362 Fulton St.;
\$7,000.

W. B. Pershing, three-story brick flats, 746-748
Washington Boulevard; \$30,000.

Mrs. N. A. Jones, two-story brick flats, 5623 Union
St.; \$3,000.

Mrs. L. Johnson, three-story brick flats, 636 Semi-
nary Ave.; \$3,500.

A. Schultz, two-story brick flats, 731 Holt St.;
\$4,000.

J. J. Rush, three-story brick flats, 488 Western
Ave.; \$3,500.

Peck Parsebake, two-story brick flats, 733-735 West
14th St.; \$6,000.

Mrs. Stevens, two-story brick flats, 334 Forty-fourth
St.; \$4,000.

Sarah Hackney, two-story brick flats, 6619-6651
Rhodes Ave.; \$7,500.

H. Herman, two-story brick flats, 387 North Hoyne
Ave.; \$7,000.

Mrs. A. Kugleford, three-story brick flats, 745 Jane
St.; \$4,600.

Mrs. Rosa Broell, two-story brick flats, 131 Tremont
St.; \$7,000.

George Beldame, two-story frame flats, 5611-5613
Wentworth Ave.; \$5,000.

BUILDING INTELLIGENCE.

(Apartment-Houses Continued.)

Anna Suhr, two-story brick flats, 1225 Addison Ave.;
\$3,000.

Frank Matthews, two-story brick flats, 1346 Park
Ave.; \$3,000.

V. Vogel three-story brick flats, 114 Twenty-third
St.; \$7,000.

M. Christensen, two-story brick flats, 1143 Fifty-
ninth St.; \$3,500.

V. Kolacek, two-story brick flats, 954 St. Louis
Ave.; \$5,000.

N. M. Brown, 3 three-story brick flats, 4711-4721
Calumet Ave.; \$60,000.

C. Puddy, three-story brick flats, 1665 Twelfth St.;
\$5,500.

Mrs. A. Wolff, four-story brick flats, 616 Superior
St.; \$6,500.

F. Lochmayer, two-story brick flats, 218 Central
Park Ave.; \$3,500.

G. H. Ciang, two-story brick flats, 322 Fairfield
Ave.; \$3,500.

James Morrissey, two-story brick flats, 796 Turner
Ave.; \$3,000.

W. M. George, two-story brick flats, 856 Clifton
Ave.; \$3,000.

John Hullivan, three-story brick flats, Baxter St.;
\$5,000.

Charles Bartling, three-story brick flats, 8922 Hous-
ton Ave.; \$4,000.

Mrs. J. McCarthy, three-story brick flats, 4830 St.
Laurence Ave.; \$7,000.

Frank Peterson, two-story brick flats, 675 Sheffield
Ave.; \$5,000.

H. Harney, two-story brick flats, 4241 Grand Ave.;
\$6,000.

Washington, D. C.—*Park Ave., Pleasant Plains*,
three-story brick and stone flats, 55' x 85'; \$25,000;
own., Dr. A. B. Jameson; arch., C. E. Anderson,
934 F St.

CHURCHES.

Cambridge, Mass.—*Main St.*, opposite Pleasant
St., brick and stone church, 88' x 112', seating 3,000
people, to be known as the Cambridge Temple;
\$250,000; own., Union Methodist Society; arch.,
Blackall & Newton, Music Hall Bldg., Boston.

Chester, Pa.—Third Presbyterian Church; arch.,
Schermerhorn & Reinhold, 430 Walnut St., Phila-
delphia.

Chicago, Ill.—The Swedish Baptist Church, brick
church, 712-714 Clifton Ave.; \$7,000.

The Siliens Danish Lutheran Church, brick
church, 34-36 Snell St.; \$8,000.

Philadelphia, Pa.—*Spruce St.*, s w cor. 18th St.,
stone church, 66' x 130'; con., James Johnston, 1713
Sansom St.

EDUCATIONAL.

Chicago, Ill.—Board of Education, three-story brick
school, Page and 53d St.; \$50,000.

FACTORIES.

Camden, N. J.—*Line St.*, e 11th St., two-story brick
factory; bld., Charles Johnston, 571 Clinton St.

Chicago, Ill.—Vulcan Iron Works, one-story brick
car-works, 44-50 Irving Pl.; \$6,000.

G. K. Shoemaker, 2 frame shops, 54-56 East
Fullerton Ave.; \$4,000.

Chester, Pa.—Two-story factory, 60' x 200', for the
Thorne Manufacturing Co.; arch. and engineers,
E. W. Thorne and F. T. Riley, 1397 Arch St., Phila-
delphia.

Germantown, Pa.—*Boylston St.*, No. 4958, two-story
brick back building for light manufacturing pur-
poses; con., John W. Hartshorn, 228 Jefferson St.;
own., William Braithwaite.

Philadelphia, Pa.—*Rosehill and Clearfield Sts.*, the
contract for building the new two-story plant for
Albert E. Schofield, yarn, cotton, woolen and worsted
manufacturer, has been awarded to Charles J. W.
Platt. The main structure will be 110' x 200', and
of slow-burning mill-construction; estimated cost of
all the buildings, \$50,000.

HOTELS.

New Haven, Conn.—*Savin Rock*, three-story frame
hotel, flat roof, 50' x 50'; own., Julius Herman;
arch., Austin & Brown; contract not let.

New Orleans, La.—New hotel for St. Charles
Hotel Co., to cost about \$1,000,000; arch., Thomas
L. Sully.

HOUSES.

Baltimore, Md.—Six two-story brick dwellings, w s
Cedar Ave., n 1st St.; own., Wm. E. Garrison, 924
Hampden Ave.

Two two-story brick dwellings, s s Jenkins Lane, e
Harford Road; own., Jos. Griffin.

Three-story brick dwell., n e cor. Pratt and Dur-
ham Sts.; own., Fred'k Decker & Sons, 1299 East
Biddle St.

Boston, Mass.—*Elm St.*, near Waterlow St.,
Ward 24, frame dwell., 20' x 41'; own., J. Cater-
house; bld., Hugh McLeod.

Boston St., near Powell St., Ward 15, 2 three-story
frame dwellings, flat roofs, 23' x 53'; own., T. H. Swan;
bld., James Muldon.

Park St., near Hastings St., Ward 23, frame dwell.,
28' x 38'; own., C. Whittemore; bld., Brown Bros.

Quincy St., cor. Mascoma St., Ward 24, frame
dwell., 20' x 30'; own. and bld., Patrick Kearns.

ARCHITECTURE



DIPLOMAS AWARDED. Courses in other trades,
all including thorough instruction in Mathematics
and Physics. Send for FREE circular stating subject
you wish to study to **The Correspondence School
of Industrial Sciences, Scranton, Pa.**

BUILDING INTELLIGENCE.

(Houses Continued.)

Saratoga St., cor. West St., Ward 1, frame dwell.,
20' x 30'; own. and bld., W. B. Davis.

Chamblatt St., near Hartford St., Ward 20, frame
dwell., 20' x 50'; own. and bld., F. M. & A. G. Frost.

Melville Ave., cor. Waldeck St., Ward 24, frame
dwell., 24' x 41' 8"; own., Miss L. E. Fernald; bld.,
D. Campbell.

Carlos St., near Lauriat Ave., Ward 24, frame
dwell., 28' x 46' 8"; own. and bld., Carl S. Neilson.

Carlos St., near Chapman Ave., frame dwell., 40'
x 40' 6"; own. and bld., Carl S. Neilson.

Bloomfield St., near Bowdoin Sq., Ward 24, 2 two-
and-one-half-story frame dwellings, pitch roofs, 25' x 34'
6" and 31' 5" x 34' 9"; own. and bld., J. I. Stewart,
53 State St.

Church St., near High St., Ward 24, 3 three-story
frame dwellings, flat roofs, 28' x 63' 3"; own., J.
Donahue; bld., P. K. Shea.

Lauriat Ave., cor. Carlos St., Ward 24, frame
dwell., 26' x 50'; own. and bld., Nicholas White.

Glen Way, cor. White St., Ward 24, frame dwell.,
26' 3" x 40'; own., Walter L. Dotin; bld., R. G.
Squire.

Wescott St., near Talbot St., Ward 24, 2 frame
dwellings, 26' 3" x 40' each; own., Maria F. Dean; bld.,
W. H. Fernald.

Camden, N. J.—*Cherry St.*, No. 317, two-story brick
dwell.; bld., W. C. Keen, 646 Federal St.

Chicago, Ill.—Henry Burmeister, two-story frame
dwell., 2316 Paulina St.; \$4,200.

N. V. O'Brien, two-story brick dwell., 28 Arlington
Pl.; \$7,000.

Mrs. Julia H. Jaffray, two-story frame dwell., 6444
Lexington Ave.; \$3,500.

John McCord, two-story brick dwell., 4142 Maple
Ave.; \$3,500.

W. J. Morgan, two-story brick dwell., 6500 Ellis
Ave.; \$3,000.

W. L. Abbott, two-story frame dwell., 3211 Beacon
St.; \$9,000.

W. H. Bryan, two-story brick dwell., 3227 Malden
St.; \$7,500.

W. H. Bryan, two-story brick dwell., 3203 Arlington
St.; \$7,500.

Louis Becker, three-story brick dwell., 3936 Grand
Boulevard; \$13,000.

Max Schweitzer, one-story brick cottage, 868 Cen-
tral Park Ave.; \$3,000.

S. Brown, Jr., 2 frame cottages, 1432-1434 North
Levitt St. and 16 Sunnyside Ave.; \$5,000.

R. T. Goode, two-story frame dwell., 1115 Montana
St.; \$3,000.

George Lehman, two-story frame dwell., 1148
Morse Ave.; \$5,000.

John Cowles, three-story brick dwell., 6114 Wood-
lawn Ave.; \$7,000.

D. C. Campbell, two-story frame dwell., 9202 Laurel
Ave.; \$3,000.

D. Bathrick, 2 two-story frame dwellings, 1033-1039
Sherwin Ave.; \$6,000.

E. P. Camp, 5 two-story brick dwellings, 6846-6854
South Park Ave.; \$10,000.

F. H. Dolan, two-story brick dwell. and stable, 714-
716 Lunt Ave.; \$4,000.

Cranford, N. J.—Two-story and attic frame dwell.;
arch., Manly N. Cutter, 293 Broadway, New York
City; own., A. L. Chatterton.

Fanwood, N. J.—*North Ave.*, two-story and attic
dwell.; own., John P. Stevenson.

Ferndale, Pa.—Plans have been prepared by arch.
A. W. Leeb, 214 Second St., South Bethlehem, of a
thirteen-room dwell. to be erected for F. J. Koehler.

Glenolden, Pa.—Frame cottage; about \$3,500;
own., B. S. Fellows, Bryn Mawr; arch. E. W.
Thorne & F. S. Riley, 1397 Arch St., Philadelphia.

Newark, N. J.—*Astor St.*, cor. Clinton Ave., two-
story and attic frame and stone dwell., 44' x 72'; about
\$20,000; arch., E. A. Wurth, 748 Broad St.

New Haven, Conn.—*Sherman Ave.*, two-and-one-
half-story frame dwell., pitch roof; own., W. H.
Brown; arch., W. H. Jewett; contract not let.

New London, Conn.—*Montauk Ave.*, two-and-one-
half-story frame and brick dwell., 24' x 50'; own., A.
L. Dean; bld., Denison & Brown; arch., James
Sweeney.

Nutley, N. J.—Two-story and attic frame dwell. will
be erected for Mrs. Thomas E. Satterthwaite; arch.,
William Strom, 44 Broad St., New York City.

Overbrook, Pa.—Two-and-a-half-story local stone
dwell., slate roof; own., Miss M. B. White; arch.,
Frank R. Watson, 518 Walnut St.

Washington, D. C.—*Keneas Ave. and Thirteenth
St.*, 8 three-story and basement brick and stone
dwellings; \$40,000; own., Barr & Sanner; arch., B.
Stanley Simmons.

Parker St., 2d and 3d Sts., N. E., block of 26 brick

Iron-Work.

PHENIX IRON CO.

410 Walnut Street, - Philadelphia, Pa.

Manufacture all their products, both in

WROUGHT-IRON AND OPEN-HEARTH STEEL,

BEAMS, CHANNELS, ANGLES, ZEEs, TEES, ANGLE
BULBS AND STRUCTURAL SHAPES OF ALL KINDS.Round, Square and Flat Bars
of all sizes.

SPECIALTIES:

PHENIX COLUMNS AND UPSET EYE-BARS

Of all sizes, in Iron or Steel.

ROOF TRUSSES, GIRDERS AND JOISTS FOR FIRE
PROOF BUILDINGS, FRAMED AND FITTED AS
PER PLANS.

AGENTS:

New York: EDWARD CORNING & Co., 29 Broadway.

Chicago: A. C. STITES, 931 Rookery Building.

Boston: EDWARD CORNING & Co., 70 Kilby Street.

PASSAIC ROLLING MILL CO.,

PATERSON, N. J.

STEEL BEAMS

4 inches
to
20 inches
deep.

ALL STRUCTURAL SHAPES.

NEW YORK OFFICE, - - 43 BROADWAY

J. S. THORN CO.

Architectural Sheet-Metal Works.

Metal Building Trimmings, Ventilating Skylights
Metallic Roofing Tiles, Building Specialties, Builders
Light Iron Work of every description.Nos. 1225 to 1229 Callowhill Street,
PHILADELPHIA, PA.

BUILDING INTELLIGENCE.

(Houses Continued.)

and stone six-room dwells; \$42,000; own. and arch.,
C. B. Kefenstein, Loan and Trust Bldg.Wellesley Hills, Mass. — Two-and-one-half-sty
frame dwell., pitch roof, 35' x 48'; \$3,500; own., L.
K. Putney; bld., J. R. Robbins & Co.; arch., Herbert
Mosely, Boston.West Newton, Mass. — Valentine St., two-and-one-
half-sty frame dwell., hip roof, 40' x 60'; \$12,000;
own., Newton Land Co.; arch., Eugene L. Clark,
Boston; contract not let.Worcester, Mass. — Clement St., three-sty frame
dwell.; own., Mrs. Theresa Segalla; con., T. F.
Melican.Florence St., three-sty frame dwell.; own., L. L.
Flagg; day-work.Pleasant St., two-sty frame double dwell.; own.,
Mrs. Jennie Abbott Mattoon; con., O. C. Thayer;
arch., Barker & Nourse.Newton Ave., two-sty frame dwell.; own. and
con., O. C. Thayer.Beeching St., two-sty frame dwell.; own., J. H.
Howland; arch., Geo. H. Clemence; con., O. C.
Thayer.Boylston St., two-sty frame dwell.; own., Wor-
cester Polytechnic Inst.; arch., Earle & Fisher;
con., Pellet Bros.Rock Ave., one-and-one-half-sty frame dwell.;
own., S. C. Sanders; day-work.King St., three-sty frame dwell.; own., John G.
Smith; arch., Geo. H. Clemence; con., J. A. Ken-
nedy.

MERCANTILE BUILDINGS.

Pittsfield, Mass. — North St., four-sty steel and
frame structure with plate-glass front, flat roof;
own., Prince & Walker; arch., H. Neill Wilson;
contract not let.

OFFICE-BUILDINGS.

Chicago, Ill. — Winslow & Wentworth, eleven-sty
brick office-building and music-hall, 17-21 Van
Buren St.; \$200,000.

PUBLIC BUILDINGS.

Canton, Tex. — New court-house for Van Zandt
County; con., Otto A. Kroeger, San Antonio, Tex.

STABLES.

Boston, Mass. — Berwick St., rear, near Baker St.,
Ward 23, frame stable, pitch roof, 18' x 22'; own. and
bld., Henry Keady.Oakland St., rear, near Regent Road, Ward 24,
one-sty frame stable, pitch roof, 30' x 22'; own.,
Mary A. Cannon; bld., David Campbell.Brooklyn, N. Y. — Twenty-first St., s. s. 75' e 3d Ave.,
two-sty brick stable, 28' x 15', tin roof; \$5,300; own.,
Fred Herbst, 607 Third Ave.; arch., Chas. F. Rob-
bels, 130 Twenty-second St.Vanderbilt Ave., No. 457, two-sty brick stable
and dwell., 22' x 50', tin roof; \$5,000; own., Mrs. F.
B. Moore, 450 Clinton Ave.; arch. and bld., A.
Rutan & Sons, 357 Putnam Ave.Chicago, Ill. — Jaeger Bros., three-sty brick livery
stable and flats, 250-252 West North Ave.; \$5,500.
E. W. Hebard, two-sty brick stable, 3346 Win-
chester Ave.; \$3,000.Germantown, Pa. — Hancock St., No. 5228, two-sty
brick stable; con., C. R. Kobi & Bros., 45 West
Johnson St.New London, Conn. — Church St., brick stable, 48'
x 60'; own., C. A. Williams; arch., Gardner, Pyne &
Gardner, Springfield, Mass.; contract not let.Philadelphia, Pa. — Sanson St., No. 3815, two-sty
brick stable and coach-house, 24' x 49'; con., John
A. Palmer, 233 South 40th St.
Pine Road, near Pennypack Creek, two-sty stone

JACKSON ARCHITECTURAL IRON WORKS,

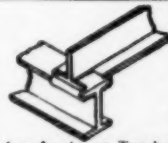
ESTABLISHED 1840.

IRON

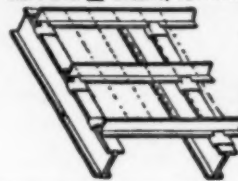
Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams,
Fire-escape Balconies and Ladders, Columns and Roofs, Sky and Floor Lights, Stable Fittings
and Fixtures, Sidewalk Lights. Artistic work in Wrought and Cast Iron, Brass and Bronze.
Designs and Estimates of Cost Furnished for Work in any Department.

Foundry and Shops, East 28th and East 29th Sts.

Office, 315 East 28th St., New York.



H. A. Streeter's Patent Clip

ARCHITECTS, OWNERS, CONTRACTORS, and all
others interested in Iron or Steel construction will please
note that I have PATENTED A STEEL CLIP for connect-ing Angle or Tee bars to I Beams, etc., which reduces the expense one-half,
and does away with the old method of Drilling and Bolting, which is a great sav-
ing of Time, besides allowing an easy method of adjusting Tee bars to any de-
sired width of Tilt. (This method is now adopted by our principal contractors).
Clips furnished ready to apply by sending the Sections and weight of Tee
Bars and I Beams, for which connections are wanted.

FOR PRICES AND FURTHER INFORMATION

APPLY TO STREETER

Globe Iron Works,

35-41 E. INDIANA STREET,

CHICAGO, - - - ILL.

ORNAMENTAL
IRON
WORKPRISMATIC
LIGHT
WORKDAUCHY IRON WORKS
84-92 ILLINOIS STREET
* CHICAGO *

BUILDING INTELLIGENCE.

(Stables Continued.)

lodge, coach-house and stable, 36' x 66'; about
\$6,000; con., Burd P. Evans, 913 Walnut St.June St., e. s. n. Parrish St., one-sty stone and
brick stable; con., Wm. D. Souder, 858 North 46th
St.Somerville, Mass. — Venzie St., frame stable; own.
and bld., Hudson & Lewis.

Taylor St., frame stable; own., Elka Hillson.

STORES.

Brooklyn, N. Y. — Knickerbocker Ave., w. s. 25' s
Stockholm St., two-sty frame store and dwell.,
25' x 57', tin roof; \$4,500; own., Mary Burghard,
241 Sumpter St.; arch., Henry Vollweiler, 483 Hart
St.Knickerbocker Ave., s. w. cor. Stockholm St., three-
sty frame store and dwell., 25' x 57', tin roof; \$4,500;
own., Mary Burghard, 241 Sumpter St.; arch.,
Henry Vollweiler, 483 Hart St.Essex St., e. s. 152' s Blake Ave., one-sty frame
store, 25' x 80', tin roof; \$3,600; own., Wm. Bartsch,
Essex St., near Blake Ave.; arch., L. F. Schillinger,
581 Liberty Ave.Stone Ave., n. e. cor. Hall St., four-sty brick store
and dwell., 25' x 70', tin roof; \$9,500; own., John L.
Bough, 121 Warwick St.; arch., Chas. Infanger,
Georgia and Atlantic Aves.Fulton St., s. s. 25' 6" e Elton St., one-sty frame
store, 25' 6" x 90', tin roof; \$3,600; own., Chas.
Voeltzel, Elton and Fulton Sts.; arch., Chas. Infan-
ger, Georgia and Atlantic Aves.Broadway, n. s. 120' e Hoebeling St., four-sty brick
store and dwell., 20' x 65', tin roof; \$7,000; own., J.
Schneckenberg, 159 Broadway; arch., A. Herbert,
249 Bedford Ave.Chicago, Ill. — Patrick Pendergrast, three-sty brick
store and flats, 1102-1104 Sixty-third St.; \$16,000.F. Weeger, 2 two-sty brick stores and flats, 3952-
3954 North Clark St.; \$4,500.Calvin DeWolf, two-sty brick store and flats, 247-
249 Jackson St.; \$3,500.R. Goldstein, 2 four-sty brick stores and flats, 3031-
3033 Dearborn St.; \$12,000.John Warsinski, three-sty brick store and flats,
1065 North Robey St.; \$15,000.M. Phillipson, four-sty brick store and flats, 407
South Morgan St.; \$8,000.Blum & Blum, four-sty brick store and flats,
Wayland Ave. and Halsted St.; \$100,000.M. Koch, four-sty brick store and flats, 277 Shef-
field Ave.; \$15,000.F. J. Corbrey, two-sty frame store and flats, 2116
Van Buren St.; \$3,500.

BUILDING INTELLIGENCE.

WAREHOUSES.

Baltimore, Md. — Two-sty brick warehouse, 30' x
70', s. s. Ashland Ave., bet. Chapel and Washington
St.; own., Justus H. Danzeglock, 1917 East Monum-
ent St.Chicago, Ill. — J. Ramsey, five-sty brick warehouse;
\$10,000.The McCormick Harvesting Machinery Co., four-
sty brick warehouse, Leavitt and South Branch
Sts.; \$20,000.

MISCELLANEOUS.

Boston, Mass. — Park St., Ward 23, two-sty frame
carriage-house for livery stable, flat roof, 70' x 80';
own., W. G. Stokes; arch., Herbert Mosely; con-
tract not let.Chicago, Ill. — Morgan & Wright, three-sty brick
office and one-sty brick boiler-house, 1921 May St.;
\$15,000.North Chicago St. Ry. Co., one-sty brick car-
house, 4359-4361 North Clark St.; \$7,000.Keith & Co., elevator, Chicago River and Lime
St.; \$100,000.Easthampton, Mass. — Three-sty brick mill, flat
roof, 44' x 70'; own., Geo. S. Colton; bld., C. W.
Smith.Mobile, Ala. — Elevator, 50' x 120', 140' high, mill
construction, capacity 250,000 bushels; \$50,000; own.,
Mobile Elevator Co.; con., Wm. Yost & Bro., Wash-
ington, D. C.; arch., W. J. Palmer, Warder Bldg.,
Washington, D. C.Pemberton, N. J. — The traces of the recent fire are
fast disappearing and workmen are rapidly replac-
ing the burned buildings. Messrs. Budd & Nutt are
building a handsome double house on their lots to
replace the old dwells. Mr. Dobbins is rebuilding
his store and dwell., and J. S. Rogers is building a
new church and parsonage for the Methodist-Epis-
copal Church to cost about \$2,500. Mr. Rogers also
has the contract for the new church, from plans
made by architect Frank R. Watson, Philadelphia.Philadelphia, Pa. — The contract for the three-sty
Evening Home and Library building on Aspen St.,
above Chestnut St., has been awarded to William R.
Dougherty, and work will soon begin; arch., Westray
Ladd, 1700 Chestnut St.Washington, D. C. — Twelfth and O Sts., N.W., three-
sty brick and stone store and residence building,
with three-sty stable in rear; own., Otto Ruppert;
arch., C. A. Didden, 709 Thirteenth St.Waverley, Mass. — Two-sty brick steam laundry,
50' x 80', for Massachusetts General Hospital;
\$10,000; con., Lord Bros., Waltham.

THE J. L. MOTT IRON WORKS,

84 to 90 Beekman Street, New York.

311 and 313 Wabash Avenue, Chicago.

322 and 324 Boylston Street, Boston.

Wainwright Building, St. Louis.

Flood Building, San Francisco.



Copyright, 1893, by THE J. L. MOTT IRON WORKS, in their publications. Plate 1087G. (Reduced cut.)

FINE appearance, durability, and perfection from a sanitary standpoint are all combined in these baths. They entail no labor, scouring or burnishing, requiring merely to be wiped out with a sponge to be thoroughly cleaned.

Interested parties are invited to visit our showrooms and examine these and other sanitary appliances.

IMPERIAL PORCELAIN ROLL-RIM BATHS.

ILLUSTRATED PRICE-LIST MAILED ON APPLICATION.

COMPETITIONS.

MUSEUM OF ANTIQUITIES.

[At Cairo, Egypt.]

The Egyptian Government have decided to put into competition the supply of the best project for building a museum for the Egyptian Antiquities in Cairo.

Architects of all nations are admitted to compete.

The amount allotted for this purpose is £E. 120,000.

Awards will be given to the authors of the best projects: the first being fixed at £E. 600 and the next four will have a sum of £E. 400 divided amongst them.

The projects should reach Cairo at latest on the 1st March, 1895, at noon.

The programme of this competition will be supplied by the Public Works Department in Cairo, on application.

985

NOTE:—The sterling pound is worth £E. 0.975, and the French piece of twenty francs £E. 0.770.

PROPOSALS.

Treasury Department, Office Supervising Architect, Washington, D. C., September 25, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 23d day of October, 1894, and opened immediately thereafter, for all the labor and materials required for the approaches, etc., for the United States Court-house and Post-office at Detroit, Mich. Including all the stone and brickwork required for the Wayne and Shelby Street entrances in accordance with drawings and specification, copies of which may be had at this office or the office of the Superintendent at Detroit, Mich. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Approaches, etc., for the United States Court-house and Post-office at Detroit, Mich.," and addressed to CHARLES V. KEMPER, Acting Supervising Architect.

980

Treasury Department, Office Supervising Architect,

PROPOSALS.

Washington, D. C., September 25, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 24th day of October, 1894, and opened immediately thereafter, for removing the old steam-heating apparatus and to furnish all the labor and materials and fix in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus for the United States Custom-house and Post-office building at New Haven, Conn., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Custodian at New Haven, Conn. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any or all bids and to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for removing old and constructing new Heating and Ventilating Apparatus, for the United States Custom-house and Post-office building at New Haven, Conn.," and addressed to CHARLES E. KEMPER, Acting Supervising Architect.

980

Treasury Department, Office Supervising Architect, Washington, D. C., September 18, 1894. Sealed proposals will be received at this office until 2 o'clock P. M. on the 9th day of October, 1894, and opened immediately thereafter, for supplying and delivering at Freight Depot at place of destination, the Post-office lock-boxes, lock-drawers, locks, pulls, plates, etc., for the United States Public Buildings, in accordance with specification, as may be ordered during the fiscal year ending June 30, 1895. Copies of the specification and any additional information may be had on application at this office. Each bid must be accompanied by a certified check for \$100. The right is reserved to reject any or all bids, or to waive any defect or informality in any bid, if it be deemed in the interest of the Government to do so. All bids received after the time stated will be returned to the bidders. Proposals must be enclosed in envelopes, sealed and marked "Proposal for Lock-boxes, Lock-drawers, Locks, Pulls, Plates, etc., for the United States Post-offices," and addressed to JEREMIAH O'ROURKE, Supervising Architect.

980

PROPOSALS.

STONE.

[At Occoquan Creek, Va.]

Proposals are wanted until October 17, for riprap stone. Address MAJOR C. E. L. B. DAVIS, U. S. Engineer Office, Washington, D. C.

981

GRANITE.

[At Key West, Fla.]

Proposals are wanted until October 25, for delivering 10,000 tons of granite at Key West Harbor. Address MAJOR THOS. H. HANDBURY, U. S. Engineer Office, St. Augustine, Fla.

982

SEWER-PIPE.

[At Jacksonville, Fla.]

Proposals are wanted until October 10, for 200,000 feet of sewer-pipe. Address WM. C. WEST, Recorder, as above.

980

BRIDGES.

[At Sherman, Tex.]

Proposals are wanted until October 10, for one or more iron bridges. Address T. W. HUDSON, Clerk Commissioner's Court, as above.

980

SCHOOL FURNITURE.

[At Cincinnati, O.]

Proposals are wanted until October 15, for school furniture. Address CLERK OF BOARD OF EDUCATION, as above.

980

HEATING AND VENTILATING.

[At Cincinnati, O.]

Proposals are wanted until October 4, for heating and ventilating system for a portion of the Cincinnati Hospital. Address BOARD OF TRUSTEES OF CINCINNATI HOSPITAL, as above.

979

ARMORY.

[At Hornellsville, N. Y.]

Proposals are wanted until October 3, for an armory building. Address JOSIAH PORTER, Adjutant General, Albany, N. Y.

979

Lead-Lined Iron Pipe and Fittings,

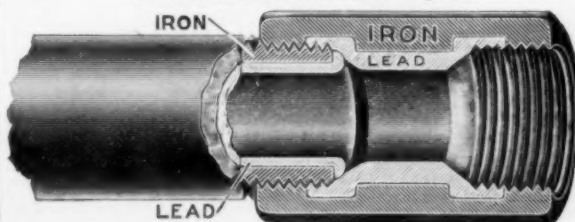
IT CANNOT RUST OR EAT OUT.

ALL FITTINGS ARE LEAD-LINED AND HAVE A PORTION OF THE THREAD IN LEAD.

WHEN COUPLED UP, A PERFECTLY TIGHT LEAD JOINT IS MADE (see cut).

NEW ENG. WATER-PIPE CO.
Wakefield, Mass.

SUPPLY, VENTILATION AND SOIL PIPE.
A Substitute for Lead Pipe.



IT IS MUCH CHEAPER THAN LEAD PIPE.

IS NOW USED IN FORTY CITIES AND TOWNS.

IT CAN BE CUT WHEREVER DESIRED AND ENDS PERFECTLY PROTECTED.

IT IS MUCH STRONGER THAN LEAD PIPE.

WE USE STANDARD IRON PIPE AND MALLEABLE IRON FITTINGS.



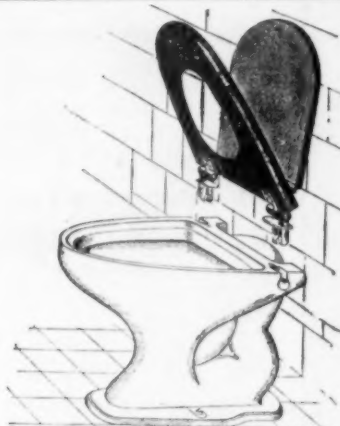
THE GLOBE VENTILATOR

For perfectly Ventilating
CHURCHES, SCHOOLS, HALLS, MILLS, FACTORIES
and Audience Rooms of every character.

SMOKY CHIMNEYS CURED.

Manufactured by

GLOBE VENTILATOR COMPANY.



Patented Sept. 11, 1894.

THE "ALBO" DETACHABLE SEAT AND COVER.

It is recognized by experts, conversant with sanitary matters, that every fixture must be as near "all open" as it is possible to make it. With the "Albo" detachable seat we not only do away with the unnecessary and dirt absorbing woodwork at the back of closet going against wall, but also present a seat in every way a perfect sanitary success.

The "Albo" seat allows of an "all open" space at back between closet and wall, thus giving free access around the bowl at all times. Another great advantage which the "Albo" seat possesses is, that it can be entirely detached from the earthenware by simply lifting it up, so that all surfaces of the seat and bowl can be kept perfectly sweet and clean.

Send for Catalogues, and, if possible, visit our showrooms.

Haines, Jones & Cadbury Co.,
MANUFACTURERS
HIGH CLASS PLUMBING GOODS,
No. 1133 Ridge Avenue, PHILA.

PROPOSALS.

STAND-PIPE.

[At Medford, Mass.]

Proposals are wanted until October 1, for 35' x 60' steel stand-pipe. Address FRANK E. CHANDLER, Chairman Water Commissioners, as above. 979

HEATING AND VENTILATING, ETC.

[At Auburn, Cal.]

Proposals are wanted until October 19, for heating and ventilating apparatus, valves and cells in Placer County Court-house. Address GEORGE B. HEWES, Chairman Board of Supervisors, as above. 981

BRIDGES AND BRIDGE MASONRY.

Proposals are wanted until October 31, for bridges and bridge masonry along the line of the Main Drainage Channel. Address CLERK OF SANITARY DISTRICT OF CHICAGO, Room H, Rialto Building, Chicago, Ill. Plans, etc., at office of Chief Engineer, same address. 983

WATER-WORKS.

[At Beaver Falls, Pa.]

Proposals are wanted until November 6, for filtering plant and building for same, and for pumps and boilers. Plans, etc., at office of James H. Harlow & Co., Times Bldg., Pittsburgh, Pa. Address BUILDING COMMITTEE OF COUNCIL, as above. 983

BUILDING.

[At Victoria, B. C.]

Proposals are wanted until October 19, for a post-office building. Address E. F. E. ROY, Secretary Department of Public Works, as above. 981

PUMPING-ENGINES.

[At Chicago, Ill.]

Proposals are wanted until October 11, for two vertical compound pumping-engines, each of capacity of 15,000,000 gallons in twenty-four hours, with boilers, etc., for the Chicago Avenue Pumping-station. Address H. J. JONES, Commissioner, Department of Public Works, as above. 980

PUMPING-ENGINES.

[At Chicago, Ill.]

Proposals are wanted until October 11, for two horizontal compound condensing pumping-engines, each of capacity of 14,000,000 gallons in twenty-four hours, with boilers, etc., one for 6th St. Pumping-station and one for Lake View Pumping-station. Address H. J. JONES, Commissioner, Department of Public Works, as above. 980



"DUPLIX"

THE BEST WATER CLOSET

IN THE WORLD

*Quiet in Operation,
Positive in Action,
Elegant in Appearance*
—AND—
Sanitarily Perfect.

FRED. ADEE & CO.,
90 BEEKMAN ST.,
NEW YORK.

PROPOSALS.

PUMPING-ENGINE.

[At Chicago, Ill.]

Proposals are wanted until October 11, for triple expansion pumping-engine of capacity of 30,000,000 gallons in twenty-four hours, with boilers, etc., for the 14th St. Pumping-station. Address H. J. JONES, Commissioner, Department of Public Works, as above. 980

WATER-WORKS.

[At Beaver Falls, Pa.]

Proposals are wanted until October 16, for two 3,000-gallon pumps and building a 6,000,000-gallon reservoir. Plans, etc., at office of James H. Harlow & Co., Times Building, Pittsburgh, Pa. Address BUILDING COMMITTEE OF COUNCIL, as above. 980

ELECTRIC-LIGHTING.

[At Oswego, N. Y.]

Proposals are wanted until October 15, for electric-lighting. Address BOARD OF PUBLIC WORKS, as above. 980

BUILDINGS.

[At Jefferson Barracks, Mo.]

Proposals are wanted until October 6, for three cavalry stables, plumbing, etc. Address CAPT. CHAS. H. INGALLS, A. Q. M., as above. 979

BUILDINGS.

[At San Francisco, Cal.]

Proposals are wanted until October 5, for barrack building, plumbing, gas-piping and lockers at Presidio. Address J. G. CHANDLER, A. Q. M. G., as above. 979

RUBBLE STONE.

[At Scituate Harbor, Mass.]

Proposals are wanted until October 8, for delivery of rubble stone at Scituate Harbor. Address S. M. MANSFIELD, Lt.-Col. Engrs., U. S. Engineer Office, Boston, Mass. 979

WATER-WORKS.

[At Beaver Falls, Pa.]

Proposals are wanted until October 2, for 2,300 tons cast-iron water-pipe, 230 hydrants, valves, etc. Plans, etc., at office of James H. Harlow & Co., Times Bldg., Pittsburgh, Pa. Address BUILDING COMMITTEE OF COUNCIL, as above. 979

CULVERT.

[At Springfield, O.]

Proposals are wanted until October 6, for an arch culvert. Address BOARD OF HAMILTON COUNTY COMMISSIONERS, Cincinnati, O. 979

PENITENTIARY.

[At Nashville, Tenn.]

Proposals are wanted until October 1, for the State Penitentiary Buildings. Address E. LAURENT, Supervising Architect, as above. 979

WATER-WORKS.

[At Greenville, Miss.]

Proposals are wanted until October 2, for water-works. Address CITY CLERK, as above. 979

RUBBLESTONE.

[At Sandy Bay and Gloucester, Mass.]

Proposals are wanted until October 4, for delivery of rubblestone in breakwaters at Sandy Bay and Gloucester Harbor, Mass. Address S. M. MANSFIELD, Lt.-Col. Engrs., U. S. Engineer Office, Boston, Mass. 979

Put into the White House by the U. S. Government.

SEALS WITH OR
WITHOUT WATER



CUDELL
Anti-Syphon Trap



For venting, use vent-top. For venting, use vented outlet

F. E. CUDELL'S
PATENT SEWER-GAS AND BACK-WATER TRAP,
For Wash-Bowls, Sinks, Bath and Wash-Tub
West Cleveland, O.

PROPOSALS.

ELECTRIC-LIGHTING.

[At Jackson, Tenn.]

Proposals are wanted until October 2, for electric-lighting. Address SAM C. LANCASTER, City Engineer, as above. 979

BRIDGE.

[At Cincinnati, O.]

Proposals are wanted until October 4, for concrete or stone wagon bridge in Eden Park. Plans, etc., at office of Superintendent of Parks, City-Hall. Address BOARD OF ADMINISTRATION, as above. 979

RUBBLESTONE.

[At Newburyport, Mass.]

Proposals are wanted until October 4, for delivery of rubblestone in the south jetty at Newburyport Harbor, Mass. Address S. M. MANSFIELD, Lt.-Col. Engrs., U. S. Engineer Office, Boston, Mass. 979

REPAIRS TO BREAKWATER.

[At Burlington, Vt.]

Proposals are wanted until October 5, for repairs to Burlington Breakwater. Address SMITH S. LEACH, Captain of Engineers, as above. 979

STONE.

Proposals are wanted until October 4, for building and riprap stone in Potomac River. Address MAJOR C. E. L. B. DAVIS, U. S. Engineer Office, 601 Eighteenth St., N. W. Washington, D. C. 979

Treasury Department, Office Supervising Architect, Washington, D. C., September 15, 1894. Sealed proposals will be received at this office until 2 o'clock p. m. on the 12th day of October, 1894, and opened immediately thereafter, for all the labor and materials required for the excavation, foundations, basement and area-walls, basement columns and I-beams, etc., of first-floor construction, temporary drainage, etc., for the United States Post-office building at Allegheny, Pa., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Allegheny, Pa. Each bid must be accompanied by a certified check for a sum not less than two per cent of the amount of the proposal. The right is reserved to reject any and all bids, and to waive any defect or informality in any bid, should it be deemed in the interest of the Government to do so. All proposals received after the time stated will be returned to the bidders. Proposals must be enclosed in envelope, sealed and marked "Proposal for the Excavation, Foundations, etc., for the United States Post-office building at Allegheny, Pa.," and addressed to JEREMIAH O'ROURKE, Supervising Architect. 979

THE VAN VRANKEN FLUSH TANK.
For Sewers, Subsoil Disposal, etc.
For catalogues, discounts and other particulars, address
J. LELAND FITZGERALD,
437 STATE STREET, SCHENECTADY, N. Y.

"THE CAST SINK MUST GO"

THE COLUMBUS SINK DISPLACES
WROUGHT STEEL ALL OTHERS

PAINTED, GALVANIZED, ENAMELLED.
Send for descriptive circular and prices, to
The Kilbourne & Jacobs Mfg. Co.
Sole Manufacturers. - COLUMBUS, OHIO.

BOSTON FIRE-BRICK WORKS.

FRONT BRICK

BUFF, BROWN, MOTTLED YELLOW,
GRAY, OLD GOLD AND
OTHER COLORS.

**ARCHITECTURAL
TERRA-COTTA**

In all its varied colors and forms.

FISKE, HOMES & CO.,

MANAGERS,

Factories on Federal Street and
at South Boston.

Office 164 Devonshire St., Boston.

Times Building, Park Row, New York.

927 Chestnut St., Philadelphia.

THE AMERICAN FIRE-PROOFING COMPANY.

SOLE OWNERS AND MANUFACTURERS OF

J. G. MERRILL'S PATENT

SALAMANDER



**Fire-Proof Composition
FOR BUILDINGS.**

Used as Lining between
Floors, and upon Walls,
Ceilings, Elevator and
Light Shafts, Boiler Rooms,
Doors, Shutters, etc. It is
Air, Dust, and Vermin
Proof, and a Sound.

Deadener.

Office, 166 Devonshire Street, BOSTON.
A. J. HODDER, Pres.
CHAS. T. BAKER, Treas.
W. D. LONGFORD, Gen. Mgr.



For estimates on

**ASPHALT
WORK**

of every descrip-
tion apply to Man-
ager,

T. Hugh Boorman,

N. Y. Mastic Works, 35 Broadway, N. Y.
Asphalt Mine Owners in France, Sicily, etc.

BROOKS, SHOOBRIDGE & CO.,

PORTLAND CEMENT.

Works: Grays, Essex, England.
New York Office: 7 Bowling Green.

Fire-proof Building.

RARITAN HOLLOW AND POROUS BRICK CO.,

— MANUFACTURERS OF —

Hollow Fire-Clay and Porous Terra-Cotta Bricks

of Every Description, for Fireproof Buildings.

BUFF AND MOTTLED FRONT BRICK, FIRE BRICK.

Send for new Illustrated Catalogue, giving weight of materials, safe loads, etc.

Office, 874 Broadway, NEW YORK.

ESTABLISHED 1856.

HENRY MAURER & SON,

Manufacturers of

FIRE-PROOF BUILDING MATERIAL

Of every description. Hollow Brick made of Clay for Flat Arches, Partitions, Furring, etc.

Works, MAURER, N. J. Porous Terra-Cotta, Fire-Brick, etc., etc.

Office and Depot, 420 EAST 23d STREET, New York.

Send for 1894 Catalogues on "Fireproofing" and "Fire-Brick."

C. PARDEE WORKS, } Manufacturers All Kinds Fireproof Building Materials, etc.
Perth Amboy, N. J. See ad. on page XVI.

PIONEER FIREPROOF

CONSTRUCTION CO.

1545 SO. CLARK STREET, CHICAGO.

MANUFACTURERS AND CONTRACTORS

FOR EVERY DESCRIPTION OF

Hollow Tile AND Porous Terra-Cotta

FOR FIREPROOFING BUILDINGS.

CONTRACTS TAKEN IN ALL PARTS OF THE UNITED STATES. Send for Illustrated Catalogue and Price List.

**TO ARCHITECTS,
BUILDERS
AND OWNERS.**

Sample and Circulars Free.

Attention is called to Fireproof and Vermin-Proof

MINERAL WOOL,

As a Lining in Walls and Floors for preventing the
ESCAPE OF WARMTH AND THE DEADENING OF SOUND.

AMERICAN MINERAL WOOL CO.

Lessee of

Western Mineral Wool Co., Cleveland, O. and U. S. Mineral Wool Co., 2 Cortlandt St., N.Y. City.

Roebling STANDARD Wire Lathing

FIREPROOF—DURABLE—ECONOMICAL

Pays for itself in decreased cost of insurance—will not "sag" under the heaviest coats of mortar—ensures
a perfect ceiling, free from cracks. Its fire-resisting qualities have been demonstrated in three
public tests—detailed accounts of which will be mailed to any address upon request.

**THE NEW JERSEY WIRE CLOTH COMPANY,
TRENTON, N. J.**

Massachusetts Material-Men and Contractors.

ARTIFICIAL STONE.	FIREPROOFING.	HEATING CONTRACTOR.	MASON CONTRACTORS.
SIMPSON BROS. 166 Devonshire St. Boston, Mass.	BOSTON FIREPROOFING CO. 166 Devonshire St. Boston, Mass.	W. E. FLORENCE, 10 Beacon St. Chelsea, Mass.	THOMAS J. LYONS, 166 Devonshire St. Boston, Mass.
BUILDING CONTRACTORS.	FURNACES.	INTERIOR DECORATOR.	PAPIER MACHÉ.
LITTLEFIELD BUILDING CO. Incorporated. Room 57, 166 Devonshire St. Boston, Mass.	CYRUS CARPENTER & CO. 44 Hanover St. Boston, Mass.	WILLIAM J. DOLAN, 224 Tremont St. Boston, Mass.	CONLAN & MAYBECK, 65 Wareham St. Boston, Mass.
CARVERS, MODELLERS.	GRANITE.	IRON WORK. (Building)	SASH CORD.
JOHN EVANS & CO. 77 Huntington Ave. Boston, Mass.	GRANITE RAILWAY CO. 166 Devonshire St. Boston, Mass.	R. F. HAWKINS' IRON WORKS, Springfield, Mass.	SILVER LAKE CO. 78 Chauncy St. Boston, Mass.
ELECTRIC WORK.	HEATING. (Air & Water)	MANTELS. (Wood)	SLATE. (Roofing)
BLODGETT BROS. & CO. 383 Federal St. Boston.	MAGEE FURNACE CO. 30-8 Union St. Boston, Mass.	J. W. BAILEY & SONS CO. 14 Charlestown St. Boston, Mass.	H. H. MATHEWS, 178 Devonshire St. Boston, Mass.

Bricks and Terra-Cotta.

HYDRAULIC BRICK,
PLAIN AND MOULDED
OF ANY COLOR.
RED, BUFF, GRAY, BROWN,
PINK, MOTTLED, GRANITE.

Total Annual Capacity, 100,000,000.

HYDRAULIC-PRESS BRICK CO.,
ODD FELLOWS' BUILDING,
ST. LOUIS, MO.

PERTH AMBOY
TERRA-COTTA COMPANY,

OF
PERTH AMBOY, NEW JERSEY.

OFFICE, 289 Fourth Ave., NEW YORK.

PHILADELPHIA
OFFICE,
DREXEL BLDG.

BOSTON AGENTS,
WALDO BROS.,
88 Water Street.

TIFFANY PRESSED BRICK CO.,

Manufacturers of

Pressed and Enamelled Brick,

Plain and Ornamental.

403 Chamber of Commerce Bld'g,
CHICAGO.

"Architects"
SPECIFY

**LAFARGE'S
CEMENT**

(MANUFACTURED IN FRANCE)

The only cement that should be used for setting and backing Limestone and Granite Fronts. It is the strongest and finest ground Cement, of light color and will not stain.

JAMES BRAND,

Importer and Sole Agent,
81 and 83 Fulton St., N. Y.

**THE GREAT
CHURCH
LIGHT
REFLECTORS** FOR
OIL, GAS
ELECTRIC LIGHT
I. P. FRANK,
551 PEARL ST. N. Y.

Architects, Builders, and others will confer a favor on the Publishers by mentioning "The American Architect and Building News" when sending for circulars or corresponding with parties advertising in these columns.

**NEW YORK
ARCHITECTURAL TERRA COTTA
COMPANY.**

OFFICE,
38 PARK ROW,
New York City.

WORKS,
LONG ISLAND CITY,
New York.

GENERAL AGENTS FOR NEW ENGLAND:
BOSTON FIRE BRICK COMPANY,
Flake, Homes & Co., Managers,
164 Devonshire Street, Boston, Mass.

STEPHENS, ARMSTRONG & CONKLING,
Branch of New York Architectural Terra Cotta Co.,
1341 Arch Street, Philadelphia, Pa.

— INDIANAPOLIS —
TERRA-COTTA CO.

Works: Brightwood, Ind.
ESTIMATES ON SPECIAL DESIGNS PROMPTLY
FURNISHED. WRITE FOR CATALOGUE
AND DISCOUNTS.
SEMI-GLAZE OR DEAD-FINISH.
ALL COLORS.

**POMPEIIAN,
BUFF AND RED PRESSED,
ALSO ORNAMENTAL**

FACE BRICK MANUFACTURE.

CAPACITY, 100,000,000 PER ANNUM.

JARDEN BRICK COMPANY,

BRICKS GROUND FOR ARCHES A SPECIALTY.

Send for our illustrated catalogue with price-list. Office, No. 9 N. 13th Street, PHILADELPHIA, PA.

**FRONT BRICKS
AND
TERRA-COTTA**

— IN OVER TWENTY COLORS. —

Chimney Flue Linings, Chimney Tops, Drain
Pipe, Cement and all Masons' Materials.

Send for Catalogues.

WALDO BROTHERS,
86 WATER STREET, - - BOSTON.

**THE
Northwestern Terra-Cotta Co.**
Manufacturers of

Architectural Terra-Cotta.

WORKS & MAIN OFFICE:

Cor. Clybourn & Wright-
wood Avenues.

CITY OFFICES:

Room 1118 Bookery Bldg.
cor. La Salle & Adams St.

CHICAGO.

Estimates given on application. Send for
Catalogue and Samples.

BRICK OF ANY COLOR
AND
OF ALL SHAPES.

BRICK FIREPLACES.



NO. 3 SPANISH.

BALTIMORE ROOFING TILE CO.

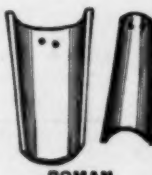
BURNS, RUSSELL & CO., Proprietors,

535 Columbia Avenue, Baltimore, Md.,

MANUFACTURERS OF

Spanish, Roman, French, Shingle and all other
styles of Clay Roofing Tiles in all colors,
glazed or unglazed.

CATALOGUE ON APPLICATION.



ROMAN.

C. PARDEE WORKS, Perth Amboy, N. J.
MANUFACTURERS
FIRE, FRONT, and PAVING BRICK, SEWER and FLUE PIPE, WALL COPING, ART TILE,
FIREPROOF BUILDING MATERIALS, ETC.



Giant Metal Sash Chain.

MADE ONLY BY

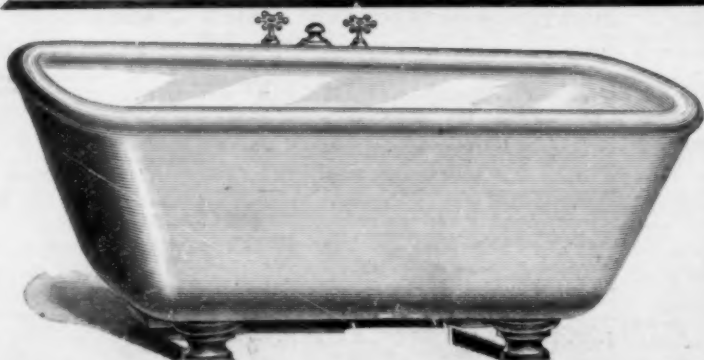
THE SMITH & EGGE MANUFACTURING CO.,
BRIDGEPORT, CONN.

The most reliable and economical article in the market for the purpose. GREAT TENSILE STRENGTH. Does not corrode; does not lose its vitality by continuous use, or exposure to the elements; runs over any pulley, and gives satisfaction wherever it is used. Fixtures made of steel wire, is very simple and easily applied. Prices very low. Samples sent to any architect in the United States, free, on application. Now in use in State House, Hartford; Providence City Hall; Singer Building, Chicago; J. C. Flood's, Menlo Park, Cal.; Vancouver and Florence Flats, New York; Boreel Building, New York; new State, War and Navy Departments, and Patent Office, Washington, D. C.; Herald Building, Boston, and very many other fine buildings in all parts of the United States.

Porcelain Bath Tubs

"POMPEIIAN" and "FRENCH SHAPE,"
ROLLED EDGE.

"SLUICE" Syphon Water Closet.



MINTON'S TILES

For Bathrooms, Halls and Vestibules; Glazed,
Unglazed and Enamelled.

MILLER & COATES, 279 PEARL STREET
NEW YORK.

260 of our Pompeian Bath Tubs were put in
Waldorf Hotel, New York.

THE ONLY MEDAL AND AWARD FOR SHINGLE STAINS

At the World's Columbian Exposition

HAS BEEN AWARDED TO

DEXTER BROTHERS, - ENGLISH SHINGLE STAINS, - 55 & 57 BROAD STREET, BOSTON.

PEERLESS COLORS FOR MORTAR.

BLACK, RED, BROWN, BUFF. NEW COLORS, MOSS GREEN, ROYAL PURPLE, FRENCH GREY, POMPEIAN BUFF, COLONIAL DRAB.

THE BEST, BRIGHTEST, AND MOST DURABLE MANUFACTURED.

ALSO

PLASTER ARCHITECTURAL ORNAMENTS FROM ORIGINAL AND SPECIAL DESIGNS.

SAMUEL H. FRENCH & CO., PAINT MANUFACTURERS, York Ave. and Callowhill Street, Philadelphia, Pa.

MARKS' ARTIFICIAL LIMBS.

WITH RUBBER HANDS AND FEET,
The most comfortable, durable and natural.



Although a man may lose both of his legs he is not necessarily helpless. By having artificial legs applied, with rubber feet attached, he can be restored to his usefulness.

The engraving is from an instantaneous photograph of a man ascending a ladder; he has two artificial legs substituting his natural ones, which were crushed by a railroad accident and amputated. With his rubber feet he can ascend or descend a ladder, balance himself on the rungs, and have his hands at liberty. He can work at a bench and earn a good days wages. He can walk and mingle with persons without betraying his loss. In fact, he is restored to his former self for all practical purposes.

With the old method of complicated ankle-joints these results could not be so thoroughly attained.

Fifteen thousand in use, scattered in all parts of the world. Many of these have been supplied without pre-paying themselves to the maker, simply by sending measurements on a formula which any one can easily fill out.

RECEIVED THE HIGHEST AWARD AT THE WORLD'S COLUMBIAN EXPOSITION. Indorsed and purchased by the U. S. Government. A treatise of 430 pages and formula for measuring SENT FREE.

A. A. MARKS,

701 Broadway, NEW YORK CITY.

(Established 41 Years.)

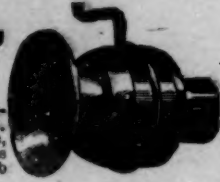


W. R. OSTRANDER & CO.,

204 Fulton Street, New York.

Manufacturers of

Speaking-Tubes, Whistles, Oral, Electric, Mechanical and Pneumatic Annunciators & Bells. Complete outfits of Speaking-Tubes, Whistles, Electric, Mechanical, and Pneumatic Bells. A full line always in stock. Send for New Catalogue. Factory, De Kalb Ave. near Knickerbocker, Brooklyn, N. Y.



NATIONAL Fine Art Foundry,

218 East 25th Street, New York.

Artists' Models cast in Standard Bronze

Architects' Designs Executed.

Artistic and Enduring Monuments in Granite and Bronze.

No Catalogues.

MAURICE J. POWER



GAS LIGHT

FOR Churches, Theatres, &c.

Send for cuts and prices.

Fair discount to churches and the trade.

Oil

New Gas Burner.

H. C. CHARLES & CO., 53 Dearborn St., CHICAGO.

FOR INFORMATION ABOUT U. S. MAIL CHUTES

WHICH ARE

A necessity in Office Buildings and Hotels,

write to the sole makers,

THE CUTLER MFG. CO., ROCHESTER, N. Y.

PATENTED. AUTHORIZED.

Conservatories, GREENHOUSES, VINERIES,

Shipped to any part of the country, and erected complete, ready for use.

Plans embrace the latest improvements.

Unequalled facilities for manufacturing. Thirty-five years' experience. Catalogue sent on application.

Address, stating requirements,

LORD & BURNHAM COMPANY, IRVINGTON-ON-HUDSON, N. Y.

PASSENGER AND FREIGHT ELEVATORS

Morse, Williams & Co., Electric and Hydraulic High Speed Passenger Elevators.

Steam, Belt and Hand Power Freight Elevators.

1105 Frankford Ave., Philadelphia. 108 Liberty St., New York.

19 Pearl St., Boston. 82 Church St., New Haven.

714 Omaha Building, Chicago. Builders' Exchange, Baltimore, Md.

Decorative Glass and Sand Blast Work.

THE MATTHEWS DECORATIVE GLASS CO.

MANUFACTURERS OF

ORNAMENTAL GLASS in Sheets or from Special Design

By the SAND-BLAST and other Patented processes.

CHIPPED GLASS, EMBOSSED GLASS, LEADED GLASS,

Gold and Silver Embossed, and Transparent Glass Signs. Marbleized Glass for Ceilings. Estimates promptly furnished on application.

328-330 E. 26th Street, New York City.

ALPHABETICAL LIST OF ADVERTISERS.

The (E) indicates that the advertisement may be found in the last or the following issue: the (M) that it may be found in the first issue for each month.

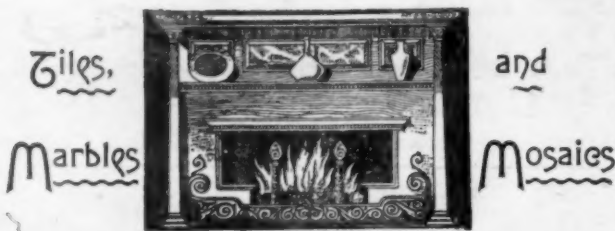
A. Ade & Co., Fred.....M Aschmann & Feltner.....M Allen's Cement Works.....M American Boiler Co.....M American Fireproofing Co. (Baltimore).....M American Mineral Wool Co.....M Apollo Iron & Steel Co.....(Cov.) Armstrong & Co., Mailand.....M B. Babcock & Wilcox.....M Baily & Truitt.....M Baltimore Roofing Tile Co.....M Bardley, J.....M Barterson, See & Kline.....M Bell, George H. & Co.....M Belmont Iron Works.....M Bergner Bros.....M Beyer Mfg Co.....M Bickelkopf, G.....(Cov.) Blake Bell Co.....M Brand, James.....M Bridgport Wood Finishing Co.....M Brinley, H. R.....M Brooks, Shonbridge & Co.....M Brooks, T. H. & Co.....M Brownville Maine Slate Co.....M Buckley Portland Cement Co.....M Burdick & Williams.....M C. Cahoon, Paul E.....M Cahoon, W.....M Central Expanded Metal Co.....M Chambers Glass Co.....M Chapman, H. C. & Co.....M Chicago Interior Decorating Co.....M Chrome Steel Works.....M Chinaman Corrugating Co.....M Clark, Russell & Co.....(Cov.) Clark, G. S.....M Clinton Wire Cloth Co.....M Comstock, W. E.....M Continental Insurance Co.....M Correspondence School of Industrial Sciences.....M Cudde, F. E.....M Cutler Mfg. Co.....(Cov.) D. Dawson Iron Works.....M Dawson, H. E.....M Davis & Co., F. W.....M Dexter Bros.....M Dixon Granite Co., Inc.....M Dougherty, T. H.....M	E. Elektron Mfg. Co.....M F. Farquhar's Sons, John.....M F. Rand & Volter Organ Co.....M Fisher & Co., Robert C.....M Fiske, James & Co.....M Fitzgerald, J. Leland.....M Fleming Cement & Brick Co.....M Flynt Building & Construction Co.....M Folsom Snow Guard Co.....M French & Co., Samuel H.....(Cov.) Frank, J. P.....M Frost & Adams.....M G. Globe Ventilator Co.....M Globe Iron Works.....M Gorton & Lidgerwood Co.....M Goulds Mfg. Co.....M Graves Elevator Co.....M Gurney Heater Mfg. Co.....M H. Haberstroh & Son, L.....M Haines, Jones & Cadbury Co.....M Harlan & Hollingsworth Co.....M Hayes, Geo.....M Heliotype Printing Co.....M Hill, George J.....M Hind, Thomas J.....M Hitchings & Co.....M Holmes, F. S.....M Hovsen & Hovsen.....M Huyett & Smith Mfg. Co.....M Hydraulic Press Brick Co.....M I. Indianapolis Terra-Cotta Co.....M J. Jackson Architectural Iron Works.....M Jackson, E. A. & Son.....M Jackson & Co., Wm. H.....(Cov.) Jackson Brick Co.....M Jenkins Bros.....M Johns Mfg. Co., H. W.....M Johnson & Wilson.....M Jones, T. W.....M	K. Kear, C. P.....M Kearney, H. A.....M Kearney & Mattison Co.....M Kerway, Percy N.....M Kilbourne & Jacobs Mfg. Co.....M L. Lamb & Hinkle.....M Lane Bros.....M Lawrence Cement Co.....M Leid & Bursch Co.....(Cov.) Lindley Sawyer W & Co.....M M. Marey & Gardner.....M Marks, A. A.....(Cov.) Masquerey, E. L.....M Matthews Decorative Glass Co.....(Cov.) Maurer & Son, Henry.....M Mayer R. R. Figure and Cold Storage Co.....M McCallum Glass Company.....M McFarland & Co.....M Metallic Setting Co.....M Miller, J. C.....(Cov.) Miller & Coates.....M Moore & Co., E. H.....M Moore & Wyman.....M New York Metal Works.....M Mott Iron Works, J. L.....M Murphy Varnish Co.....M N. National Lead Co.....M New York Metal Mfg. Co.....M Neuchatel Asphalts Co.....M New England Fall Roofing Works.....M New England Water Pipe Co.....M N. J. Steel & Iron Co.....(Cov.) New Jersey Wire Cloth Co.....M N. Y. Architectural Terra-Cotta Co.....M New York Metal Works.....M New York Metal Works.....M New York Metal Works.....M Nightingale, S. C. & Childs.....M Northrop, H. S.....M Northwestern Terra-Cotta Co.....M Norwalk Cement Co., F. O.....M O. Okonite Co. (Ld.).....M Ostrander & Co., W. R.....(Cov.) Otis Bros. & Co.....M	P. Paragon Construction Company.....(Cov.) Pardes, C.....M Passaic Rolling Mill Co.....M Penn Elevator Engineering Co.....M Penn Iron Rolling & Corrugating Co.....M Perth Amboy Terra-Cotta Co.....M Phoenix Iron Co.....M Pioneer Fireproof Construction Co.....M Pitt, W. H.....M Power, M. J.....(Cov.) Pray, Sam & Co., John H.....M Prentiss, J. B. & Son.....M R. Randolph & Clow.....M Raritan Hollow & Porous Brick Co.....M S. Samson Cardage Works.....M Smith & Anthony Store Co.....(Cov.) Smith & Eggs Mfg. Co.....M Smith Co., H. S.....M Spanning & Mon.....M Standard Elevator Co.....M Stebbins Mfg. Co.....M Stewart Curran's Co.....M T. Taylor Co., H. & G.....M Taylor, J. W.....M Thiele, E.....M Thorn, J. S. Co.....M Thorn Shingle & Ornament Co.....M Thorn Glass & Decorating Co.....M Troy Pressed Brick Co.....M Tucker & Co.....M Troy Laundry Machinery Co.....(Cov.) V. Vale & Young.....(Cov.) W. Waldo Bros.....M Warren Chemical & Mfg. Co.....M Whitfield, Thomas.....M Whitlock Machine Co.....M Wilkes Refrigerator Co.....M Wilkes Mfg. Co., S.....M Williams, John.....M Wilson, Jas. G.....M Worthington, Henry A.....M Y. Yale & Towne Mfg. Co.....M
--	---	---	--

WM-H-JACKSON-&CO

860 BROADWAY - UNION SQ. - 18th St.
NEW YORK CITY.

Designers and Manufacturers of...

MANTELS
OPEN FIREPLACES..
GRATES and FENDERS.



ARTISTIC WROUGHT METAL WORK, FOR INTERIORS, ETC.
HOUSEHOLD ART GOODS.

ESTABLISHED OVER 65 YEARS.

Foundries and Shops, East 28th and 29th Sts., - 2d Avenue.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

We invite Correspondence.
Send for Catalogues.

HEAD
OFFICE:

Gurney Heater Mfg. Co.

163 Franklin St., Cor.
Congress, Boston, Mass.

SELLING AGENCIES. (JOHNSON & Co., No. 71 John Street, New York City and vicinity.
J. C. F. TRACHSEL, No. 230 Arch Street, Philadelphia and vicinity.
A. A. GRIFFING IRON CO., No. 34 Dearborn Street, Chicago and Western States.



**HOT-WATER HEATERS,
STEAM BOILERS,
RADIATORS.**

Endorsed by the leading
Architects and Engineers.



JAS. G. WILSON, Patentee and
Manufacturer.
74 West 23d St., New York.



Rolling Steel Shutters.



Rolling Venetian Blinds.



Rolling Partitions.



English Venetian Blinds.

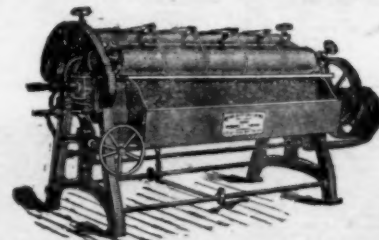
NJ. STEEL & IRON CO.
TRENTON, N.J.
IRON AND STEEL BEAMS
CHANNELS, ANGLES & TEES
COOPER, HEWITT & CO.
NEW YORK.

TROY LAUNDRY MACHINERY CO.

[LIMITED.]

FACTORIES: (648-650 Fulton St., Troy, N. Y.
386-405 Fifth Ave., Chicago, Ill.

SALESROOMS: (15 Warren St., New York.
581-583 Mission St., San Francisco, Cal.



Our line the largest and most complete in the world.

Send for Illustrated Catalogue Z.



80-Page Illustrated Catalogue of over 250 Designs of Superior

**WEATHER VANS,
TOWER ORNAMENTS,
CHURCH CROSSES,
FINIALS, Etc., Etc.**

Mailed to any address for 3-cent stamp-half the postage.

T. W. JONES Manufacturer,
170-172 FRONT ST., New York.

CONTINENTAL INSURANCE COMPANY,
OF NEW YORK CITY.

Extract from statement made Jan. 1, 1904.
CASH CAPITAL - - - - - \$1,000,000.00
RESERVES for insurance in force, etc. 3,856,875.95
NET SURPLUS - - - - - 1,576,595.38
POLICY HOLDERS' SURPLUS - - - 2,578,595.38
GROSS ASSETS - - - - - 6,433,171.33

SAFETY FUND POLICIES ISSUED.
F. C. MOORE, President, HENRY EVANS, Vice-President.
EDWARD LANNING, Secretary. CYRUS PECK, Treasurer.
WM. A. HOLMAN, Asst. Sec. R. J. TAYLOR, Man'gr Loss Dept.
46 Cedar Street, New York.

C. H. DUTCHER, Secretary Brooklyn Dept., Court and Montague Sts., Brooklyn, N.Y.; J. J. McDONALD, Gen'l Manager Western Dept.; GEO. E. KLINE, Asst. to Gen'l Manager, Rialto Building, Chicago, Ill.; W. S. DUYAL, Gen'l Manager Pacific Coast Dept.; F. C. BARKMAN, Asst'to Gen'l Manager, 321 Pine St., San Francisco, Cal.

RESPONSIBLE AGENTS WANTED.



"THE WORLD'S FAIR EXTRA"
OF THE AMERICAN ARCHITECT.

Contains twenty gelatine prints of some of the Exhibition buildings and their details, already published in the International Edition. Five of these prints are double-page plates, the others being single-page.

For sale at this office. Price, \$3.50.

This "World's Fair Extra" will be sent free to new subscribers to the International Edition of the American Architect for 1894.

211 TREMONT ST., BOSTON.



SAYLOR'S PORTLAND CEMENT.

Strongest, Cheapest, Best, and Always Fresh.

JOHNSON & WILSON, Gen. Agts.,
Aldrich Court, 45 Broadway, New York.

For Sale by all Dealers in Masons' Materials. Send for Pamphlet.

