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THE
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AND BUILDING NEWS

VOL. XXVII.

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ARCHITECTURE

ENGINEERING

DECORATION

TICKNOR & COMPANY

CONSTRUCTION

BOSTON MASS.

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DETAIL OF THE ENTRANCE PORCH, OSBORN HALL, NEW HAVEN, CONN.

[Heli-chrome, issued only with the Imperial and International Editions.]

CONGREGATIONAL CHURCH, WAKEFIELD, MASS.

ST. LUKE'S CHURCH, MANSFIELD, O.

A VAULT AT GREENWOOD CEMETERY, BROOKLYN, L. I.

A COTTAGE AT TUXEDO PARK, N. J.
BUILDING FOR THE BOSTON REAL ESTATE TRUST, BOSTON MASS,
NETLEY CORNERS, MINNEAPOLIS, MINN.

Additional Illustrations in the International Edition.

HOUSE ON YORKSTRASSE, BERLIN, PRUSSIA.

[Gelatine Print.]

HOUSE OF HERR HATNER, BUDA-PESTH, AUSTRIA.

[Gelatine Print.]

A PORTE-COCHERE IN THE QUARTIER ST. GERMAIN, PARIS, FRANCE.

[Gelatine Print.]

HOUSE AT HAMPSTEAD, ENG.

THE CORRIDOR, OF THE SAME.

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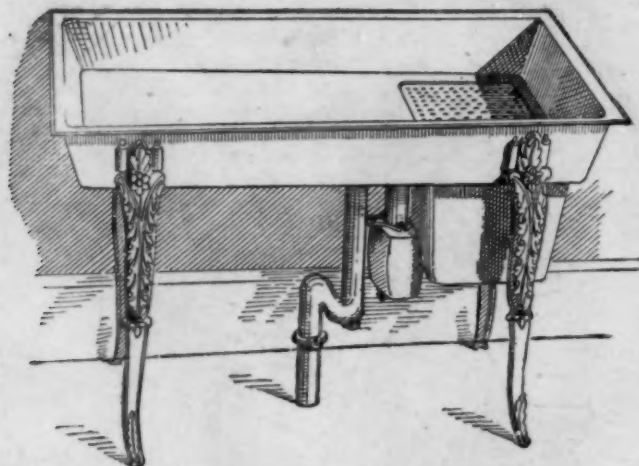


FIG. 45. The Sanitas Kitchen Sink and Flush-pot.

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VOL. XXVII.

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MARCH 29, 1890.



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BOSTON furnishes this week one of the worst cases yet reported of the wanton tyranny which the trades-union leaders are permitted to exercise over innocent persons, who do nothing to offend them, and owe them no obedience, but whom they can deprive of their living in a moment, when the whim seizes them to display their power. A gang of carpenters, eighty-two in number, was hard at work getting ready the base-ball exhibition grounds for the Brotherhood games this summer, when the notorious Clinkard, who is, we believe, walking-delegate for four of the Boston unions, strolled by. Belated buildings, where the contractors are straining every nerve to push matters, afford excellent opportunities for mischief, and the delegate summoned the men from their work. All but seven obeyed, and were ordered to pack up their tools and go home, which they did. When the contractor, Mr. Keyes, arrived on the ground, he found only the seven contumacious men at work, and, knowing from experience what to do, he waited until evening, when he was sure of finding Mr. Clinkard at the union headquarters, and went to beg an interview with the magnate. He found the great man affable, and learned the interesting fact that the new base-ball Brotherhood "had been regarded with manifest favor by the American Federation of Labor," and that there was "an understanding that, in view of substantial support by the latter," the Brotherhood "would have its work in various cities done by members of the trades-unions." The contractor, having thus been set right in regard to the peculiar circumstances attending work for base ball associations, proved tractable, and after an hour's conference the walking-delegate declared the strike "off," the consideration on the part of the contractor being an agreement to employ thenceforth none but union men on the Brotherhood's grounds, to maintain union wages, and union hours, and to discharge the seven men who refused to strike at the delegate's order. A man of more heroic mould would probably have rejected the last condition, on the ground that honor required him to defend to the last extremity the men who had stood by him; but contractors do not always have as much heroism as would be good for them, and Mr. Keyes's seven friends were promptly set adrift. We might say something about the folly, as well as the meanness, of contractors who, after being injured by a strike, discharge the men who did not strike, on the demand of those who did; and it is worth suggesting to master-builders that a mutual understand-

ing for the protection of non-union men would do more to keep the union leaders within the bounds of reason than all the schemes of arbitration ever invented; but the point on which we wish to insist is that a state of things in which one man can at will point out unoffending and industrious persons, and have them visited with the most cruel punishment that civilization affords—the deprivation of means of earning a support for themselves and their families, should not last another day in this country. The little bell of our war period, at whose ringing men were consigned without trial to Fort Lafayette, marked a very feeble exercise of power compared with the despotism which speaks by the walking-delegate's signal; and we should have to go back to the mediæval tyrants, who pointed with their thumbs, as they walked about the streets, at the individuals whom their body-guard of assassins should forthwith drag into a dark corner and kill, to find a parallel to the heartless tormentors who hunt from shop to shop the poor workmen against whom they have conceived a grudge. So far as we can ascertain, although a transient flutter is sometimes raised on their behalf by the newspapers, the lot of the "scabs," otherwise known as the independent and ambitious men who will not submit to the dictation of "rummies" as to how, when and where they shall work for the benefit of their families, grows harder every day, and it is high time that the real friends of freedom and "human rights" should try to unite the efforts of non-union workmen in a determined attempt to diminish, by force of law, the power which the union delegates exercise over them through the contractors, and to enlist the contractors, as well as the public, in their effective defence.

THE opening of the building season is signalized this year by the same threats and agitations which have so long annually diverted capital, which would otherwise be used in building, into other investments, to the injury of all those persons whose living depends upon employment in building work. In New England, so far as our observation goes, the carpenters, masons, plasterers, plumbers and painters, as well as the contractors and architects, who have so long been looking in vain for the return of the active building seasons which were once the rule, are indebted for their losses and disappointments to the efforts of about a dozen men, who gain a comfortable income through their skill in blustering and agitating themselves into notice, and who find it necessary to repeat their performances every year, with some little variation in the theme, to prevent themselves from being dropped into obscurity. That their annual threats of commotion and disaster put an end to hundreds of building projects, and throw thousands of skilled mechanics out of employment, is nothing to them; all they know or care for is that agitation fills their own pockets, and the more distress they can cause among honest working people by their generalship, the faster the dollars are transferred from the hands of their poor followers to their own. This year, the building business is to be attacked, and thrown into confusion, on the ground that it is one of the rights of man to work only eight hours per day, and that all people engaged in the building trades must starve themselves until the rest of the world acknowledges the truth of this maxim. The trifling circumstance that mechanics in the building trades are already at liberty to work eight, nine or ten hours, as they choose, and that, for the express purpose of allowing them that liberty, it is now customary among contractors to pay their men by the hour, is completely ignored by the agitators, who demand, not that those men who wish to spend seven or eight hours a day in indulging that thirst for spiritual improvement which they attribute to plasterers and stone-cutters may be allowed to do so, for this is already provided for by the hourly payment system, but that no one shall be allowed to work more than eight hours a day, whether he wishes to or not. Of course, the adoption of such a rule, if it should be forced upon the trades, would bear much more seriously upon the industrious and ambitious journeymen than upon the contractors, who, after losing money on their unfinished contracts, would simply readjust their prices to the new conditions; and a rebellion would ultimately be the consequence; but as our friends, the agitators, grow fat rapidly upon commotions in the ranks of the workingmen, this prospect has no terrors for them, however it may alarm other people.

AS our readers know, we have no desire to see the incomes or the opportunities for improvement of faithful workmen limited in any way. If any man thinks it for his advantage to work one-third of the day, sleep another third, and spend the remaining third in amusing himself, it is certainly a good thing that, as is now the case in the building-trades, he should be at liberty to do so, but for those who wish to divide their time in this way to combine to compel others to do the same is a piece of tyranny which Americans ought to resent, and any attempts which may be made to prevent people who wish to work at their trades nine or ten hours a day from doing so, should be met with the summary energy which Americans, when roused, usually show in dealing with organized oppression. Such attempts, if the agitators should carry their point, probably will be made, as it will be very hard for native-born citizens to content themselves with working only eight hours a day. Some of them, who can use their spare time profitably in some other occupation, would be contented with the arrangement, but we are inclined to think that the general adoption here of an eight-hour system in the building-trades would soon be followed by the formation of building societies, composed of the best workmen in the different trades, who would take contracts on their own account, and work long enough, and hard enough, to make their contracts bring them in a good profit, without paying any attention to the threats of walking delegates, or the disquisitions of cheap politicians on the rights of man. In France, such "syndicats professionnels," which came first into existence at a time when misunderstandings between contractors and journeymen had brought building nearly to an end, have prospered greatly. Although they operate with only the limited capital that an association of workmen can contribute, their reputation for faithfulness and honesty some years ago gained them the privilege of bidding on public buildings, on equal terms with the great contractors; and the cheap politicians, who have as keen a scent there as here for a movement which promises to become popular, are already as enthusiastic for the coöperative principle, which consists in every man accomplishing as much work as he can, as they were not long ago for the trades'-union theory of human rights, under which the laziest man is privileged to prevent any one else from doing any more work than he does, and thus getting employed in preference to him.

ARCHITECTS ought to be careful not to allow themselves to countenance in any way the questionable proceedings which are so often connected with the award of public contracts. Perhaps the officials who act for the community are guilty of as many violations of strict fairness as the contractors, but their sins are likely to be the result of ignorance or carelessness, while a contractor's offences against professional ethics are usually deliberate. In either case, however, it is best for the architect to express his opinion clearly on the matter, and if his advice is not followed, he will at least escape being made later, as usually happens, the scape-goat upon whom both the contracting parties load the responsibility for the consequences of their respective acts. A good illustration of a sort of transaction which owners often think harmless, but which contractors object to unless carried out by themselves, and which architects, with reason, discountenance as a violation of good faith, which, in the end, injures the owners more than any one else, is to be found in the example of the Lowell City-hall, the contract for which has just been awarded. According to the local journals, bids were originally submitted for the building, including the use of a certain kind of granite. The commissioners thought a cheaper sort of granite could be used, and asked the bidders to modify their proposals accordingly. One of the bidders, a perfectly responsible contractor, telegraphed the amount of the deduction he would make if the cheaper stone were used. This made his bid the lowest; but on the same day that his bid was received, and before the commissioners had made their decision, another firm, by a singular coincidence, discovered an "error" in the calculations on which their bid, already submitted, was based. By correcting this "error" a deduction of four thousand dollars would be made from the proposal, which brought it slightly below the bid of the first contractors, and the firm was allowed to amend its proposal to this extent, and, as amended, the proposal was the next day accepted.

NOW, we do not mean to say that the city of Lowell ought to lose four thousand dollars, because its commissioners were too squeamish to correct a real mistake in adding up a column of figures, or that contractors ought not to be allowed to correct clerical errors; but, if the mistake actually existed, it would have been easy to prove, by the examination of the papers by some unprejudiced expert, such as the architect, who would be in every way the most suitable person, that the bid of Contractor No. 2 was thus really the lowest, and the award could be made accordingly. Unfortunately, the commissioners, as is apt to be the way with such officials, chose to consider that it was no one's business but their own, how or why they made the award, and the consequence is that the citizens who think that fair play was not given in the matter show signs of intending to prevent the appropriation of the money for the building; while the contractors whose bid would have been the lowest except for the discovery of the "error" have a grievance which might easily be made to cost the city a great deal more than the difference in the bids.

MR. GEORGE KELLER, of Hartford, recently sued the New York, New Haven & Hartford Railroad Company for twenty-five hundred dollars, as compensation for plans furnished in competition for the new station in Hartford. It will be remembered that the competition for the station resulted in the rejection of all the designs, as unsuitable, and that Messrs. Shepley, Rutan & Coolidge were subsequently commissioned to carry out the work, in accordance, undoubtedly, with directions from the officials of the company. According to Mr. Keller, however, the plan as executed is substantially the same as his competitive design, and he thought he ought to be paid for it. It would have been curious to see what a jury would have said to the evidence, which, of course, would have been mainly the internal evidence of the plans themselves; but the case was compromised by the payment to Mr. Keller of five hundred dollars, the railroad officials claiming that they were in the right, but that it was cheaper to pay that amount than to contest the case.

ACCORDING to the *Tribune*, of Rome, Georgia, a rather important discovery has recently been made in Floyd County, in the shape apparently, of a vein of bauxite, or cryolite, suitable for use in making aluminium. The *Tribune* appears to think that the vein contains pure aluminium, but even Georgia could hardly furnish such a wonder, and it will be quite sufficient glory for Floyd County to supply an ore capable of easy conversion into metal.

ANOTHER petty annoyance has been recently added to the long list of burdens which weigh upon the time of architects. Hitherto, it has been common enough to send to architects circulars, commending all sorts of building materials and processes, which, to ensure their being read, the recipient was requested to acknowledge. Perhaps a few unemployed beginners read and acknowledge these gifts, but the great majority of architects sweep them every morning into the waste-basket without opening them. Now, however, perhaps as a result of the reduction of postage rates, has appeared a much more troublesome device. The dealer in gas-fixtures, or the contractor for electric wiring, or the agent for patent plastering, or the proprietor of a patent chimney-top, ascertaining from the building journals that Architect A is to build for Mr. B a mansion at Oak Hill, encloses one of his circulars in a sealed envelope, puts on a two-cent stamp, and directs it to Mr. B, "care of Architect A." The architect receives it with mingled perplexity and disgust. He knows that it is simply an advertising circular, that the enterprising dealer intends to force him to convey, with a sort of implied guaranty, to the customer whom he wishes to catch, but, although his first impulse is to bury it in the deepest recesses of the waste-basket, he dares not carry out his intention. After all, it is a sealed letter, addressed to some one else. He cannot open it, to make sure of the worthlessness of its contents, nor does he feel justified in neglecting or withholding it, so, with execrations on the diabolical ingenuity of peddlers, he encloses it in another envelope, and forwards it to his client, in a good many cases, we suspect, with a warning to have nothing to do with people so devoid of decency.

MILITARY ARCHITECTURE.¹—II.

FEUDAL ERA, FROM THE FIFTH TO THE FIFTEENTH CENTURY.

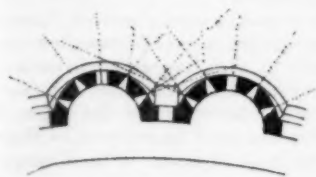


Fig. 11. Trace of the Wall of the Château Gaillard.

WHILE the Visigoths, from the Narbonnaise to the Loire, continued to surround their cities with walls, in imitation of the models bequeathed to them by the past (Narbonne, Agde, Carcassonne, etc.), social disorganization, by opening the era of feudal anarchy, led to

the construction of fortified dwellings and castles, in the north of Gaul, and thus brought about a complete transformation in the military architecture of that region.

These castles, or châteaux, are the distinctive mark of the period, and their study furnishes almost the entire history of the art of the military engineer up to the moment when a new centralizing force arose, which stifled feudal selfishness in solicitude for the general defence of the country.

Viewing the subject in another light, it was between the fifth and fifteenth centuries that the art of fortification, returning to its starting-point, traversed anew the successive steps already taken by ancient civilizations, and which led up to the modern era ushered in by the invention of metallic projectiles.

It was a long way from the dwelling of the Frankish chief, raised on a mound (*motte*) and defended by a wooden stockade, to the redoubtable fortress of Coucy: the history of this evolution offers archaeologists a most attractive subject for study, while the architect finds in the débris of this wondrous period an inexhaustible mine of rich and valuable material.

The *château à motte* is the point of departure (tenth century); then the central structure became the donjon; the palisades were replaced by a solid wall flanked with towers; in the space comprised between the enceinte and the donjon, in the bailey (*baille*), the feudal lord provided shelter for his armed retainers and servants. Often even, while the enclosure around the donjon was preserved intact, a walled court-yard was laid out where the servants' quarters, the stables and, when possible, a mill were erected.

In the eleventh century study was already directed to the works of the ancients, and much useful knowledge was derived therefrom. Geoffroy Plantagenet read a treatise by Vegetius while he was besieging Montreuil. It was, however, during the Crusades, in the countless sieges to which the citadels of Asia Minor were subjected, that the skilful engineers were trained who were destined to carry the construction of fortified castles to the degree of perfection attained in the fourteenth and fifteenth centuries.

Until the thirteenth century, as we are reminded by Viollet-le-Duc, the resistance offered by fortifications was wholly dependent on their passive force, on their massiveness and the position of their constructions. But against the methods of attack brought back from the Crusades, and especially against mining, they were unavailing. An effort was then made to keep the enemy away from the foot of the walls by leaving a broad space, or *lice*, in front of them, and running a second line of walls and towers around it. Ditches were dug outside of these. The gates and entrances to the bridges were covered by outworks, known under the Saracen name of "barbacans."

The tower, in its lower portion, offered no way of resisting the miner beyond that afforded by its own massiveness. A vaulted room was, therefore, made in it on a level with the ditch, or *lice*, with an opening at the top, through which stones and all sorts of missiles could be hurled on a besieger.

On the top of the walls and towers wooden *hourds* were constructed, forming a sort of gallery projecting over the exterior face of the wall, and providing means for a large number of the besieged to beat the foot of the walls with stones and other projectiles.

The first attempt at lateral flanking, obtained by the trace of the external surface of the walls, appears in the Château Gaillard, constructed in 1196 by Richard Cœur de Lion, and in which the plan of the rampart affects the appearance of a series of arcs of circles (Figure 11).

At the same period, round towers were substituted everywhere for the square or polygonal towers. These were some-

times provided with spurs in front, and their size was increased sufficiently to allow of a larger garrison.

The appearance of fire-artillery in the besieging ranks produced but slight change in the fortifications so long as stone projectiles were still used; the balls were yet shattered against the thick walls of the fortresses. However, the close of the fourteenth century witnessed a modification in the crowning of the towers and curtains which is not without interest from an architectural point-of-view. We refer to the substitution of stone machicolations for the wooden *hourds*, which had proved a too easy prey for fire.

At the same time, the vertical, horizontal or cruciform loopholes (*archères*) were superseded by circular embrasures with



Fig. 12. The Louvre; Arch of Austria.

vertical slits above for the discharging of firearms. The roofs disappeared, and pieces of artillery were stationed on the tower-platforms.

With the fourteenth century feudalism reached its full development. The land was covered with châteaux; feudal life was, however, beginning to wane before the increasing importance of royal power. Scarcely any more defensive castles were erected; but as a protection against the common enemy—the foreign enemy—improvements were made in the already existing enceintes of the cities, and others were constructed.

It was in this state of things that the crowning transformation came through the substitution of metallic for stone projectiles. This simple modification introduced into use guns of smaller calibers, and consequently of lighter weight and greater resistance. The charge could be augmented, thus increasing the velocity and live force of the ball. Under this new method of attack the masonry walls crumbled, filling up the fosse and opening a path for the besiegers.

Then the engineers levelled towers and curtains, and covered their débris with masses of earth.

The age of stone had closed forever for fortifications, making way for the age of earth. But, before attaining the theoretic forms suited to the new conditions of siege, and which every nation later adjusted to its own needs, military architecture had to pass through a transitional period in which every piece of the old armor fell one after another; in which engineers groped their way, trusting to chance inspirations for finding effective new dispositions.

The round and low towers were enlarged so as to accommodate an increased amount of artillery on their terrepleines. Gradually these gave place to polygonal towers, in which constructions we see the first rude outline of the modern bastions. This transformation was usually confined to the towers of the enceinte outside the *lice*; soon, however, the rear wall disappeared, leaving only the low outer wall, covered with cannons and well flanked.

MODERN PERIOD.

It was in Italy, during the campaigns of Charles VIII, that the inadequacy of the old fortifications first made itself felt; and it was there that, under the impulse given to the arts by the rare geniuses of the Italian Renaissance, the new methods of fortification were first brought to perfection. The Italian engineers acquired a reputation in their art which long made them the fortress-builders of Europe. Then the Spaniards followed in their footsteps, covering their land, as well as Flanders, with strongholds remarkably well adjusted to their topographical positions.

¹ From the French of A. de Rochas and G. Espitalier in Planat's "Encyclopédie de l'Architecture et de la Construction." Continued from No. 743, page 181.

It was not until the reign of Henry IV that France ceased to be dependent on ultramontane engineers.

Meanwhile, in Germany, in 1527, Albrecht Dürer, who had studied in Italy, published the work on fortification upon which modern German engineers have seen fit to base their school and many of their methods. This great artist seems to have given special attention to the organization of the walls; he once more employed discharging-arches as a means of strengthening the escarp.

But the engineer who, according to General de Villenois, was really the first to combine the various lines constituting a front, that is to say an *ensemble* flanked at all points, was Paciotto d'Urbino. He was the originator of the bastioned front, in spite of the Strasburg engineer Speckel's claims to the honor. The latter was writing while Paciotto was building the wonderful fortresses of Turin, Cambrai and Antwerp (1567).

The engineers who came after—Errard of Bar-le-Duc, the Chevalier de Ville and the Comte de Pagan—gradually metamorphosed the bastioned front; they systematized the use of high earth cavaliers¹ on which were disposed the batteries commanding well the country, and also counterguards, and *tenailles*, a sort of dike or bray², placed in the broad fosses³ in order to protect the masonry work of the bastions and curtains (Figure 13).

It was at this stage that Vauban appeared; finding the way well paved for him, he had only to coördinate the somewhat

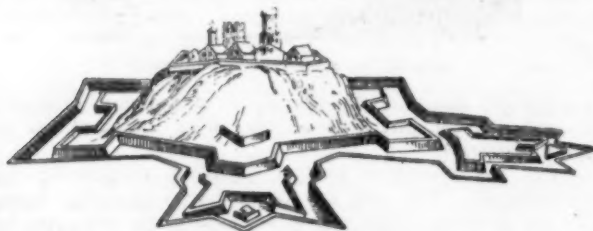


Fig. 13. Bastioned Front, by the Chevalier de Ville.

confused ideas of his predecessors to produce a clear and precise body of principles for the guidance of military engineers. Vauban's true title to renown is mistaken by the general public; he is usually regarded as the inventor of the bastioned system; he was nothing of the kind, as we have seen. But he brought to the application of existing methods an extraordinary soundness of judgment, and an unparalleled experience in the art of siege. And it was precisely in this art of siege that he showed creative genius. The *successive parallels* dug before the invested town (Siege of Maëstricht, 1672), and *riechetling*, which he invented at the siege of Philipsburg (1688), produced a veritable revolution in the art of siege, and made it possible to reduce what had been chances to mathematical certainties.

It is to Vauban that we are indebted for the first general organization of a system of national defence that had been undertaken since the days of the Romans. It is to him, finally, that we owe the huge, regular barracks required for the use of permanent armies.

Vauban threw so much light on the art of fortification that he quite eclipsed his rival, Cœhorn, notwithstanding the latter's signal merits. Vauban's successors could do nothing more than servilely copy his works, incorporating into a system certain dispositions which, for the great engineer, had been absolutely local solutions; complicating his traces by means of a formidable series of small works; belittling and reducing to dogmatism the admirable teachings of the master.

A French cavalry officer, Comte de Montalembert, whose earliest writings date from 1761, became the founder of a new school by proposing to abolish the bastions, the faces of which, in consequence of the improvements in artillery, were dangerously liable to enfilade. As for the flanking of the foss, he obtained that by means of a small work situated in the middle of each curtain; the latter, becoming thus one of the sides of

the *polygone à fortifier*, the system received the name of Polygonal System.

The small flanking work, analogous to the *moineau* of the Middle Ages, was called a *caponnière*.⁴

Vauban's teachings had taken such a strong hold in France that Montalembert's suggestions were rejected throughout the country as impracticable; and, in fact, the author's evident ignorance of construction furnished his adversaries abundant argument against his propositions. Nevertheless, the origin of the polygonal system of fortification must be referred to Montalembert, and also to the celebrated Member of the Convention, Carnot.

While the French engineer corps remained faithful to the principles of Vauban, the new ideas gained a hearing in neighboring countries; from 1815 Germany began to apply them to the reorganization of her defensive system. To the Belgian general Brialmont, however, belongs the honor of having introduced the new system, while at the same time he made an important application of the system in the new fortifications of Antwerp.

In this brief historical sketch we have somewhat lost sight of the special nature of our study, and have neglected to indicate the architectural dispositions that characterized the successive transformations which we have noted.

In the construction of the mediæval castles, full scope was given to the genius of the architect, and the ruins of those stone giants furnish us examples of architecture well worthy to rank beside contemporary churches and cathedrals.

The use of terraced ramparts, of cavaliers, of masses of earth covering the levelled walls, certainly restricted the field of art, and in their construction it was the engineer's rather than the architect's talent that was called into play. However, the walls of the sixteenth and seventeenth centuries, and especially the city-gates of that period, are not lacking in grandeur, nor in a certain robust grace quite in harmony with the purposes of fortification.

Since then—aside from barracks, which belong strictly to architecture—some fine examples of the art have been furnished, as, for instance, the vast belt of forts around Metz (1869-70), and the fortifications built about many cities in and outside of France since the Franco-German War.

CONCLUSION.

The art of fortification is at present confronted with problems the solution of which must lead to radical changes in its methods. It has entered a new era, dating, apparently, from the invention of rifled guns. Still more recent improvements have been made, by which the velocity of projectiles has been greatly increased. But the capital invention, which calls for a complete revolution of the means of defence, is the invention of projectiles charged with violent explosives, and known under the name of *torpedo-shells*.

Their destructive effects render the use of masonry escarps impossible. The premises should be absolutely underground, and every part that can be reached should, it seems, be clad in metallic armor.

After the stone age and the earth age has come the iron age. But this metallic armor and these subterranean casemates (Figure 14) furnish but a poor field for the architect's skill.

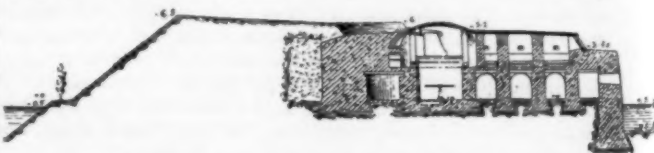


Fig. 14. Section of a Fortification against Explosive Projectiles, after the Dutch System.

We may compare the evolution of the fort of to-day to that by which the magnificent wooden ship has been transformed into the heavy ironclads, with their harsh, angular forms.

A. DE ROCHAS AND G. ESPITALIER.

COLLAPSE OF THE ROOF OF THE FLORA HALL, HAMBURG.—The glass roof of the great Flora Hall fell February 24. Eighty people were killed and many were injured.

¹ "CAVALIER."—A raised work commonly situated within the bastion, but sometimes placed in the gorges, or on the middle of the curtain. It is 10 or 12 feet higher than the rest of the works, and is used to command all the adjacent works and the surrounding country. It is designed chiefly to bring a plunging fire to bear on the assailant's works exterior to the enceinte.—*The Century Dictionary*.

² "BRAY."—A wall or other work in advance of and covering the gate of a fortress.—*The Century Dictionary*.

³ "FOSS."—A hollow place, ditch or moat, commonly full of water, lying between the scarp and counterscarp below the rampart, and turning round a fortified place or a post that is to be defended.—*The Century Dictionary*.

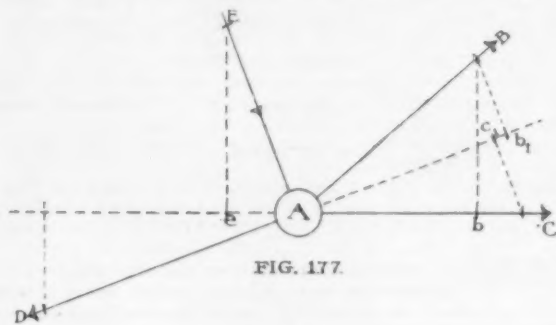
SAFE BUILDING.¹—XXXIX.


FIG. 177.

IN calculating a pin-joint, the strength of pin, as a rule, should be calculated in the several lines or directions in which it is being strained, that is first along the line of one rod, then along the line of another rod (or compression piece) and so on. In doing this all the other strains must be projected (and reduced) to the same line. If this is correctly done, it will be found in every case, that the sum of all the strains acting in one direction along this line will be equal to the sum of all acting in the opposite direction along the line. Thus in Figure 177 we have the end elevation of a pin A strained by three forces in tension B, C and D and one force in compression E.

We will first examine the pin along the line A C. Make, at any convenient scale, the lines A C, A B, A D and A E, each in length just equal to the amount of strain they are subjected to. Project them all on to A C, then will A b represent the resultant or equivalent of strain A B along the line and in the direction A C. Similarly A d will be the resultant of A D along the line of A C, but it will be in the opposite direction; e A will be the resultant of E A along the line A C, but it will be noticed that though on the opposite side of the pin it is in the same direction as A C.

Were we to examine the pin along the line A D, we should have the strain of A D in one direction and in the opposite directions the resultant strains A c, and A b. It will be noticed that E A has no resultant along the line A D, being normal to it; and it need not be considered, when calculating the pin along the line A D. We might still calculate the pin along the line A E; we should then have the strain E A in one direction and in addition thereto the resultant of A C; in the opposite direction we should have the resultant of A B. The largest strain A D has no resultant along the line A E. It is evident, however, that all of these resultants will be very small as compared to those along the other lines, and therefore need not be calculated.

In Figure 178 we have a plan of the pin, showing in plan the strains and resultants acting along the line A C. As arranged in this figure the pin evidently becomes a double-ended cantilever, supported at the fulcrum d, and loaded on one free end with the load c and on the other free end with two loads b and e.

If the strains were small, this would probably be the most economical arrangement, as A D could then be made in one piece. But if the strains were heavy it would require a tremendous pin.

In the latter case the arrangement shown in Figure 179 would be better. Here the pin becomes a beam, supported at both ends by $\frac{d}{2}$ (or one-half of the force A D); the beam carries three loads c, e and b. In this case A D would be made up of two rods, separated. The forces c, e and b must be so distributed as to make the least

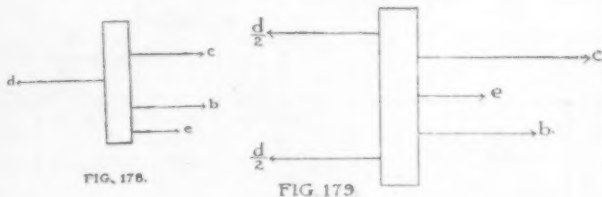


FIG. 178.

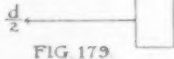


FIG. 179.

bending-moment on the beam or pin, that is, the larger ones placed nearer the supports or outer edges, and the smaller ones in the centre. Frequently it would be more economical to divide c the larger force into two halves and place them immediately next to $\frac{d}{2}$. The small force e is frequently put on the outside, as it is not sufficient to affect the beam or pin seriously and only enlarges the span of beam, that is, length of pin or distance between supports $\frac{d}{2}$ thus greatly increasing the bending-moment. This arrangement is shown in Figure 180. Here we have a beam supported at two points

$\frac{d}{2}$ with a free end carrying load e; the beam being loaded with three loads, two each $= \frac{c}{2}$ and one $= b$.

To calculate the bending-moment at any point of this pin we have to consider the end of pin farthest from e as built in solidly (and after getting reactions) we should multiply all the forces to the right or left of the point into their distances from the point. If we select the forces on the right we deduct the sum of the moments of those (right hand forces) acting in one direction from the sum of the moments of those (right hand forces) acting in the opposite direction, the difference will be the bending-moment at the point. To check the calculation we take all the forces on the left side of the point. But the reactions will not be $\frac{d}{2}$ each as shown in the table unless e were divided and one-half put at each end of pin.

In every case of pin calculation, excepting where the forces form simple beams, as in Figure 179, the forces are supposed to act through their central axes, that is through a line drawn at half the thickness of their heads and at right angles to the pin. The heads are frequently thickened up, that is, made thicker than the rod or flat bar, in order to get the necessary bearing surface on the pin, but it will be readily

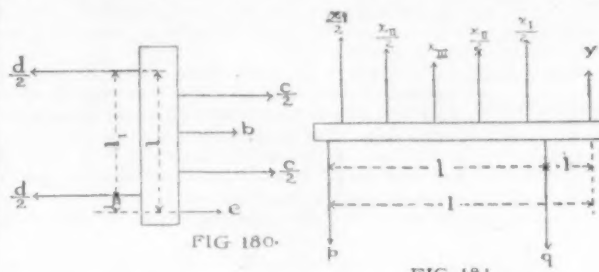


FIG. 180.

FIG. 181.

seen that this lengthens the pin greatly, thus largely increasing the bending-moments. It is better, as a rule, to get the extra bearing surface by dividing the rod or flat bar into two or more parts and then distributing them along the pin symmetrically and at the most favorable points to avoid bending-moment.

If the pin is arranged as shown in Figure 180 and we call the different lengths along the pin, as shown, l_1 , l_2 , and l_3 , the reaction nearest e will be

$$= \frac{c + b}{2} + \frac{l_1}{l_2} e$$

and the further reaction will be

$$= \frac{c + b}{2} - \frac{l_3}{l_2} e$$

In practice, however, e would probably be so small and the convenience so great in making the two bars $\frac{d}{2}$ alike, that the unequal stresses caused by e in the two $\frac{d}{2}$ would probably be overlooked.

But in calculating the bending-moment on pin, they will have to be considered as unequal, otherwise, the bending-moments calculated from the right hand or left hand of any point would not agree.

To put the above in formulæ we should have the following:

If a pin p q is strained by a number of forces x_1, x_2 , etc., in one direction, the forces p and q in the opposite direction will equal the reactions of a beam, see Formulæ (14, 15, 16 and 17).

If a single force y is placed beyond one of these resisting forces (say q Figure 181) the additional reaction on the nearer force (q) will be

$$\text{Nearer Reaction Force, } q_1 = + \frac{l_1}{l_2} y \quad (116)$$

and on the further force

$$\text{Further Reaction Force, } p_1 = - \frac{l_3}{l_2} y \quad (117)$$

or, we must add q_1 to q and subtract p_1 from p to get the real strains or reactions in the tie-rods p and q.

Where q_1 = the strain, in pounds, to be added to nearer strain q owing to force y being placed on the (q) nearer free end of pin.

Where p_1 = the strain, in pounds, to be deducted from further strain p owing to force y being placed on the other further free end of pin.

Where q = the force (reaction) at q, in pounds, resisting the forces x_1, x_2 , etc., (see Formulæ 14, 15, 16 and 17) and to which q_1 must be added.

Where p = the force (reaction) at p, in pounds, resisting the forces x_1, x_2 , etc., (see Formulæ 14, 15, 16 and 17) and from which p_1 must be deducted.

Where x_1, x_2 = the forces, in pounds, acting in opposite direction to p and q, and all projected to line p and q as shown in Figure 177.

Where l_1, l_2, l_3 = the respective lengths, or distances, in inches, measured along pin, from centre lines to centre lines of respective pins, as shown in Figure 181.

¹ Continued from No. 749, page 138.

As the forces x_1, x_2 , etc., should always, if possible, be located along pin to make the resisting forces p and q even, which is done by putting the smallest force (x_m) in the middle and dividing the others, we should have, where this is the case:

$$\text{Nearer Reaction Force. } q = \frac{\Sigma x}{2} + \frac{l}{l_1} y \quad (118)$$

$$\text{Further Reaction Force. } p = \frac{\Sigma x}{2} - \frac{l}{l_1} y \quad (119)$$

Where Σx = the sum of all the opposing forces (x_1, x_2, x_3 , etc.) to and between p and q , in pounds, provided that they are divided and the halves or fractions located symmetrically with respect to p and q .

Where p = the total resisting force (reaction), in pounds, or strain on p , the reaction furthest from free end.

Where q = the total resisting force (reaction), in pounds, or strain on q , the reaction next to free end.

Where l, l_1, l_2 , and y = same as in Formulae (116 and 117); of course, all the forces must be projected to one line as shown in Figure 177.

If one of the forces, x_1, x_2 , etc., were $= y$ and were placed to the left of p (Figure 181) the forces p and q would be equal and each = one-half of the sum of all the other opposing forces, provided always that the forces x_1, x_2 , etc., are symmetrically located in respect to p and q . Where there are a number of forces on both sides of pin, the pin might be treated as a continuous girder (see Table XVII, Volume I), but the calculation would become very difficult and the parts of all rods (or compression piece) acting in the same lines and direction would become very irregular.

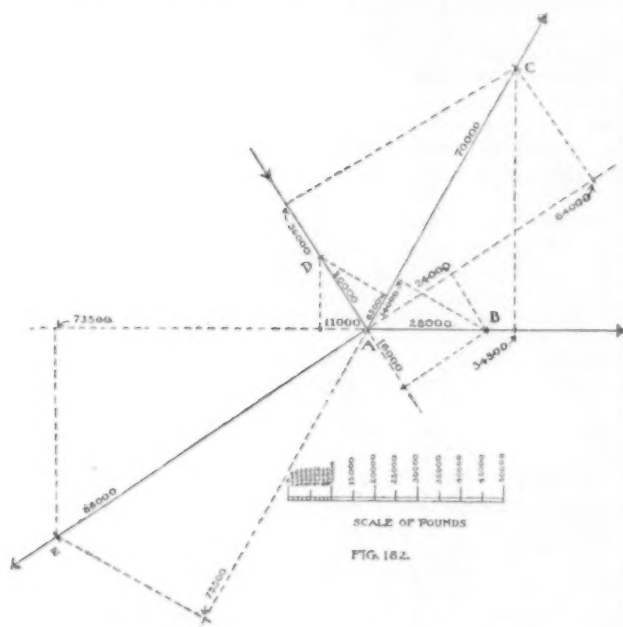
It is customary, therefore, to locate the forces along the pin symmetrically, regardless of their true resistances as they would be if treated as continuous girders, and to consider, that each takes its proportionate load (according to the thickness of its head) of the whole load along its respective line and direction. In each case it will require special study to obtain the most economical arrangement.

An example will more fully illustrate the method of calculating pins.

Example IV.

The joint A of a pin-connected wrought-iron truss is strained by the following members: The tie-rod B = -28000 pounds; the tie-rod C = -70000 pounds; the strut D = +20000 pounds; and the tie-rod E = -88000 pounds. All as shown in Figure 182; design the joint.

We will assume that for certain reasons we wish to use a 2 3/4" diameter pin. Now the first thing to do is to settle the thickness of



the (eye) heads. These, of course, must have sufficient bearing against pins not to crush the pin or be crushed by it. We use therefore the following formula:

$$\text{Thickness of Heads. } t = \frac{s}{d \left(\frac{c}{f} \right)} \quad (120)$$

Where t = the necessary thickness of eye-bar head, in inches.

Where s = the strain on each eye-bar, in pounds.

Where d = the diameter of pin, in inches.

Where $\left(\frac{c}{f} \right)$ = the safe-compression stress, per square inch, of the material of eye-bar or pin (whichever is the weaker in resisting crushing should be used.)

Accordingly we should have for thickness of the different eye-bar heads in our example the following:

$$A B = \frac{28000}{2 \frac{3}{4} \cdot 12000} = 0.85 \text{ or say } \frac{3}{4}''$$

$$A C = \frac{70000}{2 \frac{3}{4} \cdot 12000} = 2.12 \text{ or say } 2''$$

$$D A = \frac{20000}{2 \frac{3}{4} \cdot 12000} = 0.6 \text{ or say } \frac{5}{8}''$$

$$A E = \frac{88000}{2 \frac{3}{4} \cdot 12000} = 2.67 \text{ or say } 2 \frac{3}{4}''$$

The values for above thicknesses have been rather too broadly rounded off, but this is done to simplify the subsequent calculations.

Had we used Table XXXVI we should have had the same results.

For A B (28000 pounds) the horizontal line 2 3/4" and vertical line 28000 (from above for iron) meet between the heavy bearing lines 1 1/8" and 1 1/4", for convenience, however, we will call it 3/4" though this should not, of course, be done in a real calculation.

For A C (70000 pounds) horizontal line 2 3/4" and vertical line 70000 from above (the second to the right of 68000) meet just beyond the 2" heavy bearing line. It should be, therefore, a little over 2" thick, but we will call it even 2".

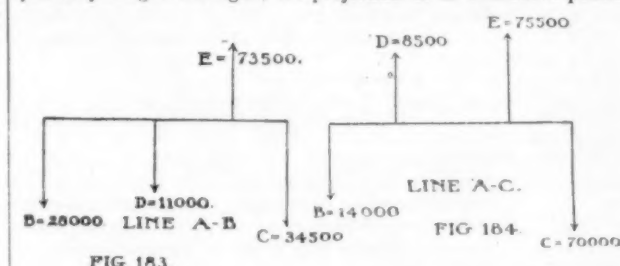
For D A (20000 pounds) the horizontal line 2 3/4" and vertical line 20000 from above, meet between heavy bearing lines 5/8" and 3/4", we will call it 5/8".

To find A E (88000 pounds) which is larger than A C, we shall evidently have to divide it in halves, and, of course, double the result. We find that horizontal line 2 3/4" and vertical line 44000 from above, meet between the heavy bearing lines 1 1/8" and 1 1/4", or we will say 1 1/8"; this doubled or 2 3/4" is the required thickness therefore, for head A E.

Of course, if we use more than one bar for either of the strains we will divide the required thickness of head accordingly. Thus, if we decide to use two bars along the line A C, each would be strained = 70000 / 2 = 35000 pounds, and the thickness of head required for

$$\text{each would be only } = \frac{2.12}{2} = 1.06 \text{ or say } 1''.$$

Now to arrange the different heads along the pin, we first lay off along each line (Figure 182) the amount of strain (measuring all at the same scale) and project these strains on to the different lines. We measure these projections and have along the line A B the strain A B = 28000 pounds pulling to the right; the projection of A C = 34500 pounds

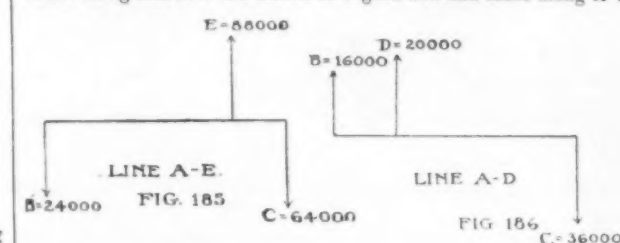


also pulling to the right; also the projection of D A = 11000 pounds pushing to the right; the projection of A E = 73500 pounds pulling to the left, thus opposing the other three.¹

If our measurements are right the sum of the forces acting in one direction along line A B, must equal the sum of their opponents, or, A B + A C + D A = A E and we have in effect,

$$28000 + 34500 + 11000 = 73500$$

The strains on the pin along line A B are shown in Figure 183. Those along line A C are shown in Figure 184 and those along A E



are shown in Figure 185; it will be noticed that in the latter case D A becomes = 0. In Figure 186 are shown the strains along D A, in this case A E becomes = 0.

As the largest strain in one direction (88000 pounds) is along line A E, we will select Figure 185 to design the joint first. and when we have settled the arrangement of heads along the pin to suit these strains, we will see how it affects the pin according to the strains along the other lines.

The simplest arrangement of the parts would be evidently that shown in Figure 185. We will first consider the shearing. The

¹ These figures have been rounded off to simplify the calculations.

largest shearing strain will be between *C* and *E* and will be = 64000 pounds. From Table XL we find for wrought-iron, single shear (at 8000 pounds per square inch) that we should need a $3\frac{3}{8}$ " diameter pin to resist 64000 pounds single shear (as each of the vertical spaces at the top evidently represent 10000 pounds), we must pass down vertically not quite half-way between the second and third lines to the right of 50000, till we strike the single shear iron curve and then pass along the horizontal line to the left to find diameter of pin, which is between $3\frac{1}{2}$ " and $3\frac{3}{4}$ " or say $3\frac{3}{8}$ ". Had we calculated arithmetically we should have had, area of cross-section required from Formula (7) transposed

$$a = \frac{64000}{8000} = 8 \text{ square inches.}$$

By referring to a table of areas of circles, or by calculation we find that for an area of cross-section of 8 square inches we require a diameter of $3\frac{3}{8}$ ". This is a larger pin than we want to use and besides seems a very large pin for the strains; it is evident, therefore, that our heads are badly arranged along the pin; we will decide, therefore, to divide the rods *E* and *C* each in two parts, making each head one-half the thickness as above found, and arrange them as shown in Figure 187.

Now the safe cross-shearing on our pin ($2\frac{3}{4}$ ") for single-shear would be from Table XXXIX = 47600 pounds, we pass along horizontal line $2\frac{3}{4}$ " till we strike iron single-shear curve and then pass upward about four-fifths way between the third and fourth vertical lines to the right of 40000; as each space is evidently 2000 pounds, we should have $40000 + 3\frac{4}{5} \cdot 2000 = 47600$ pounds. By calculation we should have had area of $2\frac{3}{4}$ " circle = 5,939 square inches, therefore safe (single) cross-shearing see Formula (7) = 5,939.8000 = 47512 pounds. The greatest cross-shearing strain on the pin with arrangement as shown in Figure 187 is 44000 pounds, and is between the heads *E* and *C* (or *E*, and *C*), so that we need not fear shearing.

The shearing area of pin being all right we now consider the bending-moment. We have marked along the pin, Figure 187, the thicknesses of heads, the length of pin required being $5\frac{1}{2}$ ", to this must be added the head and nut and also sufficient for strut *D* ($\frac{5}{8}$ ") which we remember did not come into the calculation along line *A E* (Figure 182.)

Immediately under the pin, Figure 187, we have marked the distances from centre to centre of heads, which are, of course, the

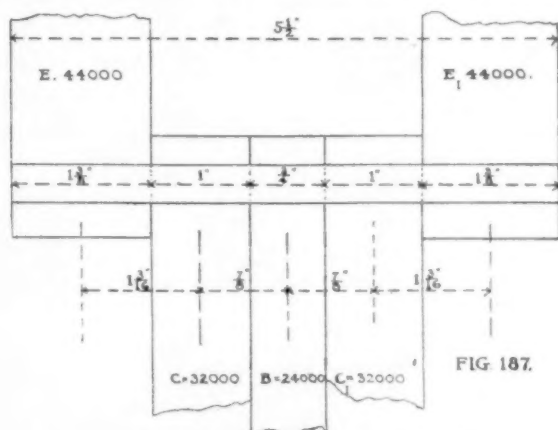


FIG. 187.

distances we consider when calculating the bending-moment. Accordingly our pin becomes a circular wrought-iron beam of $2\frac{3}{4}$ " diameter, with a span or length of $4\frac{1}{2}$ " and supported at both ends by forces *E* and *C*. The beam is loaded with the forces *C*, *C*, and *B* as shown in Figure 187.

The greatest bending-moment will be at the centre (See p. 51, Vol. I), and will be

$$m_B = 44000 \cdot (1\frac{3}{8} + \frac{1}{8}) - 32000 \cdot \frac{1}{8} - 24000 \cdot 0 \\ = 90750 - 28000 - 0 \\ = 62750 \text{ pounds-inch.}$$

This will be much more than the pin can stand for we have, for the safe bending-moment on a $2\frac{3}{4}$ " pin, moment of resistance

$$r = \frac{1}{11} \cdot (1\frac{3}{8})^3 = 2,042$$

(Table I, Section No. 7) and from Formula (18) transposed, the safe bending-moment on pin

$$m = 2,042 \cdot 15000$$

$$= 30630 \text{ pounds-inch}$$

or, only about one-half of the actual bending-moment. Had we used

Table XXXIX instead of calculating arithmetically we should have passed along the horizontal line $2\frac{3}{4}$ " till we struck the dotted bending-moment curve for wrought-iron at 15000 pounds and then passed vertically to the bottom. This would be about two-fifths way between the vertical lines 30000 and the first one to its right, each space being evidently 1500 pounds, this would mean 30600 pounds-inch safe bending-moment on a $2\frac{3}{4}$ " pin.

It is evident, therefore, that we must re-arrange the rods, trying to get the span between loads *E* and *E*, shorter if possible.

We now try the arrangement shown in Figure 188, placing load *B* at one end. The arm end *B* of pin now becomes a lever and we know from Formulae (118 and 119) that the reactionary forces *E* and *E*, can no longer be equal.

From Formula (118) we have

$$E = \frac{32000 + 32000}{2} + \frac{4\frac{7}{8} \cdot 24000}{3\frac{3}{8}} \\ = 63555$$

From Formula (119) we have

$$E_1 = \frac{32000 + 32000}{2} - \frac{1\frac{1}{8} \cdot 24000}{3\frac{3}{8}} \\ = 24445$$

As a check the sum of the two should equal the whole strain *A E* and we have in effect $63555 + 24445 = 88000$.

This arrangement must evidently be abandoned as a bad one, for the difference in the strains on *E* and *E*, is altogether too great to

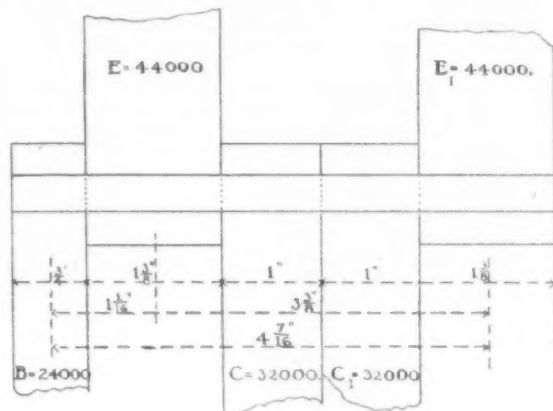


FIG. 188.

be overlooked. Besides, we can readily see that the moments at *E* and *C*, will exceed 24504 pounds-inch, the safe bending-moment on this sized pin.

For practice, however, we will figure out the bending-moments; they are: at *E*

$$\text{(left side)} m_E = 24000 \cdot 1\frac{1}{8} - 63555 \cdot 0 \\ = 25500 \text{ pounds-inch.}$$

Check (use right side)

$$m_E = 32000 \cdot 2\frac{3}{8} + 32000 \cdot 1\frac{3}{8} - 24445 \cdot 3\frac{3}{8} \\ = 25500$$

At *C* we should have:

$$\text{(left side)} m_C = 63555 \cdot 1\frac{3}{8} - 24000 \cdot 2\frac{1}{8} \\ = 21472$$

Check (use right side)

$$m_C = 24445 \cdot 2\frac{3}{8} - 32000 \cdot 1 \\ = 21472$$

At *C*, we should have:

$$\text{(left side)} m_{C1} = 63555 \cdot 2\frac{3}{8} - 24000 \cdot 3\frac{1}{8} - 32000 \cdot 1 \\ = 29027$$

Check (use right side)

$$m_{C1} = 24445 \cdot 1\frac{3}{8} - 32000 \cdot 0 \\ = 29027$$

Had we used rule given on p. 51, Vol. I, we should have known that the greatest bending-moment was at *C*. In applying the rule to this case the end load *B* should be deducted from the nearer reaction to *B*.

We might next try dividing the force *B* in two halves of 12000 pounds each, (heads $\frac{3}{8}$ " thick), leaving one at *B* and placing the other to the right of *E*. This will restore equality to the forces *E* and *E*, but it will be found that even this arrangement will not do, as the bending-moment at *C* or *C*, will still be found to be too large, namely, = 27500 pounds-inch.

After these numerous failures it is evident that we cannot well

arrange the heads satisfactorily along the pin, unless we enlarge the pin, or else divide up the larger

forces which cause us most trouble. We decide to do the latter and divide *A E* into four parts of 22000 pounds each,

with heads each $\frac{2.67}{4} = \frac{11}{16}$ " thick.

We now arrange the heads as shown in Figure 189. The correct way to calculate the bending-moment would, of course, be to consider the pin as a continuous girder running over four supports. This would make *E*, and *E*, much larger than *E* and *E*. Their heads would therefore have to be thickened so as not to crush the pin, or be crushed by it. It can readily be seen that were we to do this, the calculation would be almost interminable. Besides, practically, it would be expensive to use so many different sizes of rods, heads, etc. We must, therefore, assume that all the forces

E, *E*, *E*, and *E*, are equal. This they will be, too, for as soon as *E*, and *E*, tend to take more load, they will stretch under the added tension, and this stretching will

bring the pin to bear more heavily on the ends and thus the strains will even themselves up.

The bearing of these heads against the pin we know are all right, also the shearing, as the greatest shearing under this arrangement

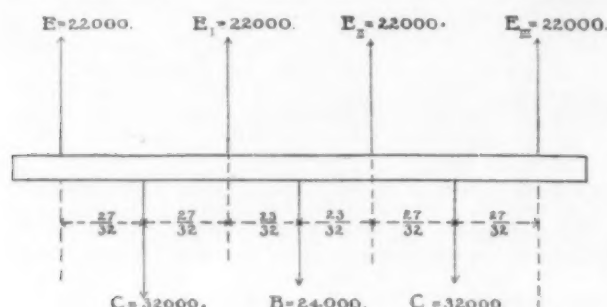


FIG. 189.

will be a single shear, between E and C (or E_m and C_i) and equal 22000 pounds, or considerably less than half the safe single shearing on this pin, which we previously found to be 48000 pounds.

The bending-moments on the pin will now be, at C :

(Left side)

$$m_c = 22000 \cdot \frac{27}{32} - 32000 \cdot 0$$

$$= 18563 \text{ pounds-inch.}$$

Check (use right side)

$$m_c = 22000 \cdot \left(\frac{27 + 73 + 127}{32} \right) - 24000 \cdot \frac{23}{32} - 32000 \cdot \frac{100}{32}$$

$$= 18563 \text{ pounds-inch.}$$

At E , we should have:

(Left side)

$$m_e = 22000 \cdot \frac{27}{32} - 32000 \cdot \frac{27}{32}$$

$$= 10125 \text{ pounds-inch.}$$

Check (use right side)

$$m_e = 22000 \cdot \left(\frac{46 + 100}{32} \right) - 24000 \cdot \frac{23}{32} - 32000 \cdot \frac{154}{32}$$

$$= 10125 \text{ pounds-inch.}$$

At B we should have:

(Either side)

$$m_b = 22000 \cdot \left(\frac{23 + 77}{32} \right) - 32000 \cdot \frac{23}{32}$$

$$= 18750 \text{ pounds-inch.}$$

At the ends, of course, there would be no bending-moment, for take end E we should have:

$$m_e = 22000 \cdot \left(\frac{154 + 100 + 54}{32} \right) - 32000 \cdot \left(\frac{127 + 27}{32} \right) - 24000 \cdot \frac{77}{32}$$

$$= 0$$

This arrangement (Figure 189) is therefore satisfactory, so far at least as the strains along the line AE are concerned.

We must now see if it will answer as well for the strains along the other lines (See Figure 182). The direction we shall now have to fear most, will be along the line DA for force D must be placed entirely on the outside edge of pin (not having been located yet) and being quite large,

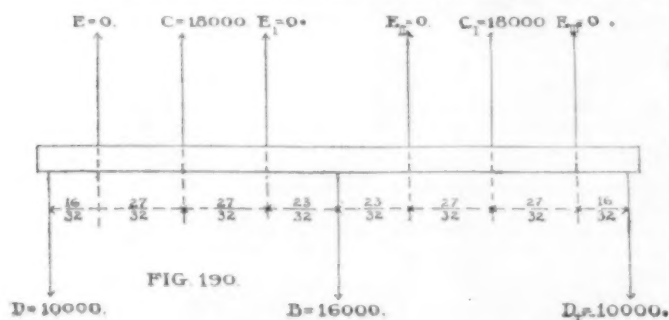


FIG. 190.

20000 pounds, may make us some trouble. In Figure 190 we have drawn the forces arranged the same as we settled on last (in Figure 189) but have added the two forces on the extreme ends D and D_i , each $= \frac{D}{2} = 10000$ pounds. It will be noticed that along this line (DA Figure 182) the forces E and C are in the same direction.

We have divided D into two parts for two reasons. Had we placed it entirely to one side, say to the right of E_m , the distance $E_m D_i$ would have been one-quarter of $\frac{1}{4}$ " larger or $= \frac{1}{16}$ "; the leverage of D_i therefore at C , would have been $\frac{27 + 21}{32} = 1\frac{1}{2}$ " and the bending-moment

$$m_{c_i} = 1\frac{1}{2} \cdot 20000$$

$$= 30000 \text{ pounds-inch, too much for our pin.}$$

Besides were we to calculate C and C_i by Formulae (118 and 119) we should find all strain on C removed and C_i more than doubled.

This evidently would not do, without special provision to meet the unequal strain by increasing C_i , which would lengthen the pin, so that we prefer to divide D , making each head of half the thickness, or $\frac{1}{8}$ " thick. The largest shearing will be between D and C (or D_i and C_i) and equal 10000 pounds single cross-shear or about $\frac{1}{2}$ only of the safe resistance to shearing.

The bending-moments will be (Figure 190) at C .

(Left side)

$$m_c = \frac{1}{2} \cdot 10000 - 18000 \cdot 0$$

$$= 18437 \text{ pounds-inch.}$$

Check (right side).

$$m_c = \frac{1}{2} \cdot 10000 + \frac{1}{2} \cdot 16000 - \frac{100}{32} \cdot 18000$$

$$= 18437 \text{ pounds-inch.}$$

and at B

(Either side)

$$m_b = \frac{1}{2} \cdot 10000 - \frac{1}{2} \cdot 18000$$

$$= 9375 \text{ pounds-inch.}$$

The bearings, of course, are safe, as the thickness of head was originally determined by the largest strain on each rod along its own line. So that we are all right with our pin for strains along line DA .

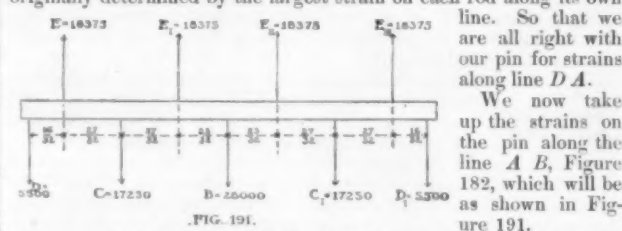


FIG. 191.

We now take up the strains on the pin along the line AB , Figure 182, which will be as shown in Figure 191.

The greatest shearing-strain here will be caused by B , and will be a double shear of 28000 pounds, or 14000 pounds on each area, perfectly safe on our size of pin ($2\frac{3}{4}$ "). The moments will be:

At E

(Left side)

$$m_e = \frac{1}{2} \cdot 5500 - 18375 \cdot 0$$

$$= 2750 \text{ pounds-inch.}$$

Check (right side)

$$m_e = 5500 \cdot \frac{170}{32} + 17250 \cdot \left(\frac{27 + 127}{32} \right) + 28000 \cdot \frac{77}{32}$$

$$= 2750 \text{ pounds-inch.}$$

At C :

(Left side)

$$m_c = 18375 \cdot \frac{27}{32} - 5500 \cdot \frac{43}{32}$$

$$= 8113 \text{ pounds-inch.}$$

Check (right side)

$$m_c = 18375 \cdot \left(\frac{27 + 73 + 127}{32} \right) - 5500 \cdot \frac{143}{32} - 17250 \cdot \frac{100}{32} - 28000 \cdot \frac{23}{32}$$

$$= 8113 \text{ pounds-inch.}$$

At E_i :

(Left side)

$$m_{e_i} = 18375 \cdot \frac{27}{32} - 5500 \cdot \frac{77}{32} - 17250 \cdot \frac{23}{32}$$

$$= 4422 \text{ pounds-inch.}$$

Check (right side)

$$m_{e_i} = 18375 \cdot \left(\frac{46 + 100}{32} \right) - 28000 \cdot \frac{23}{32} - 17250 \cdot \frac{77}{32} - 5500 \cdot \frac{154}{32}$$

$$= 4422 \text{ pounds-inch.}$$

At B :

(Either side)

$$m_b = 18375 \cdot \left(\frac{23 + 77}{32} \right) - 17250 \cdot \frac{23}{32} - 5500 \cdot \frac{23}{32}$$

$$= 14484 \text{ pounds-inch.}$$

So that the arrangement of heads along pin is all right so far as strains along line AB (Figure 182) are concerned.

We finally examine for the strains along line AC and have strains

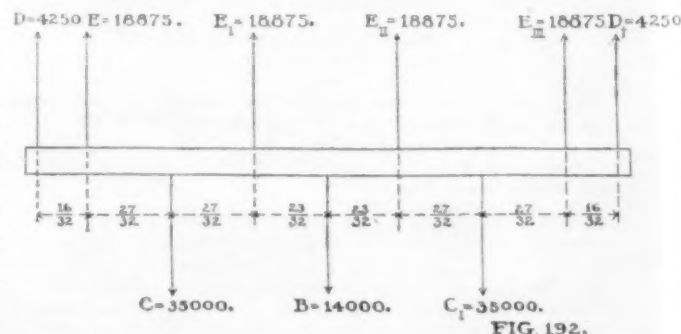


FIG. 192.

on the pin accordingly as shown in Figure 192. The greatest shearing here will be between E and C (or C_i and E_m) and will be $= 4250 + 18875 = 23125$ pounds, single shear, still, less than one-half of the safe single-shear on the pin.

By calculation the moments will be found to be at the different points, as follows:

$m_e = 2125$ pounds-inch.
 $m_c = 21637$ pounds-inch.
 $m_d = 11617$ pounds-inch.
 $m_b = 16648$ pounds-inch.

So that this arrangement of the different bars and strut along the pin is in every way satisfactory.

LOUIS DECOPPET BERG.

[To be continued.]

CAST-IRON AND ITS TREATMENT FOR ARTISTIC PURPOSES.¹



WINDOW AT ULM

THE easy contempt we feel for iron is the direct result of our treatment of it for gain, and not for true service. Yet sentimentality — and all art has to find out the intrinsic sentiment of phenomena, and so interpret them in an exalted form — there is a certain mysterious appeal in iron only surpassed probably by the gold of the poets, with its red bloom; and so pure as to be "soft as wax"; barbarous, occult and fateful.

Iron, on the other hand, stands for strength, simplicity, even severity, and, on its sinister side, for cruelty and terror. In

the old apportionment of the seven metals to the seven planets, iron belongs to Mars, as gold to the sun and silver to the moon; and Chaucer rears his Temple of Mars on iron pillars of the diameter of a barrel and polished.

"Every pillar the temple to sustain.
 Was too great, of iron bright and shene.
 There saw I first the dark imagining
 Of felonie, and all the compassing."

Dante, too, builds of it, . . . "the moats profound. That circumvallate that disconsolate city." We are not conscious of any mean reflection or association, but rather an exaltation of the imagination, when, in the curious myth of Mahomet's coffin, we are told that it was of iron, sustained in the air by the equal attraction of the walls, ceiling and floor, which were of loadstone; or in another Eastern tale, "The City of Brass," where it says that an inscribed tablet of iron of China was suspended in front of the "Terrible Tomb." We feel that bronze, or even gold, would be an anti-climax. In the image interpreted by Daniel, iron stands for power: "Strong as iron: forasmuch as iron breaketh in pieces and subdueth all things," and "wherein (as says the Koran) is mighty strength for war." To come to actual instances. When, in the fourth century, a great Indian Rajah set up the pillar of Delhi at the true centre of the round world, to commemorate, as the inscription reads, having "obtained with his own arm an undivided sovereignty over the earth," the great shaft of iron was made which, still undecayed, forms one of the oldest of Indian records. The iron crown of Lombardy, or the cross of Germany, are further instances in which the mere name of the metal lends a mysterious and moving import of invincible sternness.

The highest art is to concentrate the powers for one premeditated appeal to stimulate the imagination, and for this the quality of inherent sentiment of the material is not the least of the formative factors; as the Egyptians knew well when they selected black basalt for their statues, and the Hindoos, again, when in some of their temples they used great beams of iron, not as mean, but precious things. And Pliny, when he tells us of a certain statue of cast-iron, says that it was chosen as appropriate to the subject — a Hercules.

As our sensibility widens and deepens, we shall find that not a given material — the whitest marble or the greenest bronze are necessarily artistic — but the intellectual or intuitive grasp by which material and motive, texture and technique, are made to coördinate in one balanced and adequate result. And thus stern iron might offer, in the hands of a master, a material of great value in serious and commanding work; indeed, on the plane of the highest sculpture, we can only think one man's work into iron, and that man the greatest artist of them all. We might, perhaps, be allowed to recommend to the rising new school of English sculpture sometimes to think away from the, perhaps, petty prettiness of bronze to think sometimes in iron.

Having once made this claim for iron to a place in serious art, my actual examples will be of much lower range and humbler intention.

¹ Portions of a paper by W. R. Lethaby, read before the Society of Arts and printed in the *Journal of the Society of Arts*.

Waiving this possibility of the highest appeal, and selecting iron because of its commonness and powers of resistance, it has been treated as an art "not too great and good for human nature's daily food," but still an art real of its kind. By a careful selection of the forms and treatment suited to the structure and texture of the material, and its application to commonplace needs, the charms of fitness and honest simplicity have been given to it, and, by accepting the comparative valuelessness of the metal, it has been used as the vehicle for slight thoughts and slighter execution. It should not be without result that by far the greatest of our designer-sculptors, the late Alfred Stevens, worked long and thoroughly as a modeller for cast-iron, from no choice of his own, it may be, nor choice, probably, of subject; and yet by far the most popular work of modern sculpture, the little lions on the outer rail of the British Museum, of which so many other artists are glad to keep casts by them as examples of breadth and style, are only cast-iron. That they should be painted such a repellent color is but an accident of their fate — the irony of fate. The torch-holders on the top of the same screen, with reliefs of heads surrounding the bowls, are also his. Table-supports, stoves and grates also occupied his care. Some of them are described in Mr. Armstrong's book, and a specimen may be seen in Chelsea Town-hall.

At South Kensington, in the buildings on the west side of the road, there are two well-modelled dogs, modern French work, bronzed on the surface; and in the Museum of the School of Mines, in Jermyn Street, there are several works, statues and other dogs, after the antique, as well as modern work. One of these is especially interesting, for it is shown as it came from the mould, with seams, jets and supports not cut away, nor any surface-chasings. At a doorway at the west end of Conduit Street stand another pair of dogs in iron. Many of the firebacks which we shall notice later are low-relief sculptures of considerable merit, especially that at Bruges, which has two nude figures, some 3 feet 6 inches high, as supporters to a shield.

The invention of casting in iron seems to have been made very early. Pausanias says of Theodorus of Samos — a sort of antique Cellini, to whom they appear to have ascribed most wonderful works in metal, and who is supposed to have lived in the sixth century B. C. — that he cast figures of iron; and both this writer and Pliny mention other statues of this material. An Etruscan statue and a head of Roman work are said still to exist. England, we know, was extensively worked for iron by the Romans, and vast cinder-beds have been found near Buxted, in Sussex, with scraps of pottery and coins of Nero, Vespasian and Diocletian. Iron rings formed the currency of the natives when Cæsar "came, and saw, and conquered."

There is, however, I believe, no evidence to show that casting iron was practised here before the Middle Ages, nor at what time it was then introduced. M. Viollet-le-Duc, who, more than any one, knew the history of mediæval crafts in France, does not mind supposing that it was known there in the thirteenth century, to which date he attributes a fragment at St. Denis. In the fourteenth century, cast-iron artillery was probably founded all over Western Europe, and it is likely enough that this may have introduced the furnaces into Sussex, in spite of the couplet which says:

"Master Huggett and his man John
 They did cast the first Cannon."

Magnificent bronze sculptures, we know, were cast here in the thirteenth century by Torelli, the artist of the lovely Queen Eleanor's tomb at Westminster Abbey.

If so introduced with artillery, the founders soon cast other objects. There are in the churches of the counties of Sussex and Kent a large number of grave-slabs, the earliest of those known being at Burwash. From the form of the cross and the Lombardic lettering, it is almost certainly a work of the fourteenth century. Mr. Lower, the writer of an able paper, from the historical side, in the second volume of the *Sussex Transactions*, gives this date. He says the inscription is a good deal injured, but reads:

ORATE. P. ANNEMA
 JHONE COLINS

The placing of this on the plain field of the slab is full of art, and characteristic of early taste. . . .

In the great open fireplaces where logs burned on the hearth of hall and kitchen, cast-iron slabs, called firebacks, were put against the wall behind the fire. They are found alike in France, in the Low Countries and in England, and invariably charged with some device, arms, inscription, badge or a scene Scriptural or Classic, an allegory or a fable — something to suggest a thought, as the pattern adorned the opening in summer, or burnt red-hot behind the winter fire. All these things were books.

One of the largest and best in the modelling is that at Bruges before-mentioned, with figures of nude savages, gentle as Rousseau's natural man, supporting a shield. They are too high in relief, but evidently the work of a very good sculptor, and dated 1565. . . .

The latter firebacks are very numerous, although for the most part now in "collections" instead of adorning the cottage hearth or the hall for which they were specially made, for hardly any exact duplicates occur, and in very many instances the arms or an inscription identify the former owner's family. A back at Misfield, in Sussex, is a charming design; at the top in a little gable the crowned

badge and supporters of Elizabeth and five tiny shields, with an inscription —

THOMAS UNSTED ISFIELD AND
DINAS HIS WIF: ANO DOMINI. 1582.

all mixed up, together in amusing confusion of wavering lines of letters. . . .

The most beautiful example known to me is one of which a photograph is kindly lent me by Mr. Longden. A Roman soldier with a long spear, in three-quarter back view, within a margin line which sprouts out flowers and a flowery top and borders; it is a work of very considerable skill, sense of decorative spacing, and a touch unconscious and unaffected. The date, 1746, of this example would probably be later than the original model. Another of "Lord Fairfax" riding, fills the field well; the horse, the attitude, and the flying drapery remind one of the old broad seals on which the design is evidently founded. Another, of which I have the sketch, has for the centre a large apple-tree, with a cavalier and a lady on opposite sides, she offers him a flower — a new Eve. . . .

The actual achievement in the poorest of these firebacks is low enough. Some are, in fact, almost grotesque, but yet they all have that fresh touch of a real motive, a direct reference to some expressive gesture or pleasant object; all treated with great simplicity, and that instinct for balance and spontaneous fitness and freedom in the ornament, without any forcing the material or obtrusive display which is the mark of the traditional crafts. . . .

The firedogs or andirons which accompanied the backs on the hearth make a parallel series. De Caumont and Viollet-le-Duc cite examples of late fourteenth century and early fifteenth century in France; and a sketch I made in the Museum at Angers, of a Gothic example of this date is on the wall; many of later date still carry on the Gothic forms in England; from an arched base, sometimes cusped, springs a stem, which carries a small shield, a capital, or a head; several examples may be found figured in the articles before quoted. They are interesting historically, but are not, I think, the models we should follow. We have seen enough of the "Gothic revival" in cast-iron; what we want is new thought based on practical needs, and the Gothic spirit of a search for beauty untrammelled by formulas. Still later examples of the seventeenth century were figures or "terms," the best designed of which are signed "Carron." I bring here one of these of my own, a small female figure, and show a sketch of a terminal figure of a man which is both larger and better modelled; but even the former, poor example enough as it is in its way, is much better than a far abler sculptor would be likely to give us who did not sympathetically approach the material he was working in, and design within rigid limits; for, first of all, the figure must be just a solid post without weak projections or detail, and in this the old ones, without exception, are successful. Perfectly plain turned vase and baluster forms on a base, or obelisk-like posts on pedestals, were also used, and are probably as appropriate as any. Simplicity alone never fails; it is the charity of design that will cover a multitude of sins. To aspire is well, but to aspire vulgarly and fail weakly is to make art an offence and distaste. . . .

In Sussex the iron trade assumed such large proportions, especially after the introduction of blast-furnaces worked by water-wheels in Queen Elizabeth's reign, that the exhaustion of the timber in the supply of charcoal fuel caused much anxiety, and an effort was made to limit the industry. In 1607, an amusing tract argues the question in dialogue, the upholders of the local trade doing so on purely philanthropic grounds. The clearance of the woods was a benefit to mankind, for "people bred amongst woods are naturally more stubborn and uncivil than in the champion (*sic*) countries." At this time there is stated to have been as many as 140 furnaces in Sussex.

I am not one of those who wish to see in iron a material for a new architecture, as it is called, nor do I wish its extended use, rather inversely a smaller field, but that field as full of flowers as may be. Mr. Ruskin, with that insight which makes him refuse to talk about the fringe of a subject, saw clearly when everybody was clapping their hands over the Crystal Palace, that the finding and founding of iron is not one of the radically nobler employments, as stone hewing and setting is, or the felling and framing of timber. I would echo every word he says. But while we use iron in some degree, while we even need iron, while even it may grow into wider necessary use, I want to say let us lend what grace we may to it, so that if obtained with cost, the greatest of all cost, an unkindly labor, it may not be mispent and more than spoiled, used to insult a trained understanding in the brutality of its vulgar insolence. For in all these things it is human life we spend; there is really no other currency, and so comes the reverence any true worker always feels for material.

Cast-iron was largely used in the pleasant and refined manner of building, from the end of the eighteenth century, the typical London house. In the great area from Paddington to Piccadilly, and Bloomsbury to Bayswater, there are an infinite number of examples of a quiet and charming taste. Railings, balconies, verandas, with graceful posts and panels of delicate lattice; or inside the house, the grates and stair balustrades were just as good.

The railings began with the very fine design of the enclosure to St. Paul's; great baluster-shaped forms of beautiful profile; the railings of St. Martin's-in-the-Fields following the same model; and there is a late example in Bloomsbury Square, where large rounded

posts of this kind are used occasionally between straight uprights. Others have wide pilaster-posts at intervals, like a beautiful railing close to Apsley House in Piccadilly; or others have solid discs placed in the lozenges of lattice-work, as on the west side of Lincoln's Inn. Even the ordinary area railing of straight bars has cast knobs and vase-like forms on the top, entirely good in their way, and everything so compact that you never see parts fractured.

The balcony railings are very light — a net-work of lattice. For perfect fitness, a natural and unashamed treatment of casting in iron, they could not be bettered. We never think of comparing them with wrought-iron to their disadvantage; both are excellent in different categories, and we might as well compare London Bridge to Lady-day; whereas, modern castings do invite comparisons with wrought-iron, by an infinitely careful ingenuity of pattern-making, emulating just those qualities in which to succeed is only the most of all to fail. For not the line, as in wrought-work, the bent rod in scrolls, but the plate, plain or pierced, is the primary fact, a panel of equally distributed substance, or it will fracture in cooling. To get the most out of these natural aptitudes — that is art, by the simplest means — that is perfect art. In a word, the ratio of visible effort and economy of apparatus to the ends achieved, is the measure of our enjoyment of a work.

The verandas, many of them, are equally excellent, also some of the older lamp-posts. For the stair-railings, the usual plan is to have a wide, flat baluster of open work, one to each step, the metal very thin towards the view, and perhaps beaded. I remember to have seen a wide stone stair of the Town-hall at Cherbourg; there was a continuous balustrade of cast plates of iron, pierced with apertures into forms, each edged all round with a delicate raised fillet; it was certainly successful. The French use cast-iron largely, and much of it designed with better taste than our own, and much, I believe, with worse. Where it is the work of one of their abler architects, as in the St. Geneviève Library, or the Northern Station, or the Palais de Justice, it is carefully studied and refined. Doors are also made of it, especially for tombs, and these are suitable, which cannot be said of the elaborate pair of Berlin castings at South Kensington, which may be taken to exemplify the "thou shalt not" of cast-iron. A sheet of old designs I have also shows arched trellises for gardens, of equally reserved taste.

In Italy also, cast-iron has been used for balconies, grilles, and that sort of thing; the turned baluster is a favorite form.

The grates that fill the older houses in London are, for the most part, of excellent design and remarkable examples of careful casting; some are quite plain, with just a moulding or two, and others are fluted and beaded all over with tiny ornament on flat surfaces; the simplicity of the general forms saves the ornament from being worrying. A very beautiful grate of this sort was designed some years since by Mr. Philip Webb. There are also a great number and variety of knockers.

It is interesting to find in the East a school of casting in metals, poles asunder to our own, especially in its appreciation of the iron; there without doubt the abstract and absolute quality of the metal is admired, apart from the mere accident of its comparative cheapness. Japan is particularly famous for its iron workings, but casting is also well-known in China. Some years ago, a chain of cast-iron, of antique Chinese make, was shown at a meeting of the Archaeological Association. Bells and many other objects were also known. But the most wonderful works of iron are the sculptured *tsubi* or sword-hilts of Japan now treasured in the cabinets of collectors all over Europe, as well as in Japan itself, each one of tens of thousands a marvel of design and skilful handiwork. Iron has been also largely used as a basis for incrusting other colored metals upon in raised designs, but those works that especially belong to us this evening are the cast-iron tea-kettles and vases, of which great numbers have been brought to England, every one a truly individual work of art, fresh in design, and a wonderful example alike of casting, of decorative sense, surface texture and color. Mr. Phené Spiers has been kind enough to lend me two or three examples. A vase is not so large as some, but an interesting article of workmanship. The kettles are most charming, one with a slightly sketched band or fret ornament, and a surface that artfully reproduces the accidental handling of the wax original. The color, a fine reddish gray, is entirely beyond my knowledge to suggest how it is obtained. The smaller and, I suppose, much earlier example is even more fascinating; about the size and shape of a small glue-pot, with slightly sunk discs, containing inscriptions in soft floating relief, and the surface clean, untouched iron, with all the rough texture of the granular particles.

There are a few examples at South Kensington, a small beast and two kettles. These are damascened in silver, and the lids are of precious enamel, which sufficiently shows that the artist delighted in his iron as a material of special and singular beauty.

Dr. Dresser's book tells us these kettles were modelled in wax on a core and the model was destroyed in the first casting, so that repetition was impossible without remodelling, and who would remodel without variation? The model finished, a thin batter of very fine clay-like sand was mixed with water and spread over the model; a second and other coats of a coarser material followed, and then hard sand was pressed solidly around the whole. When dry, it was put in a muffle and the wax evaporated, the metal afterwards occupying its place, as in the well-known *cire perdue* method, by which the best works of bronze are cast. . . .

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If the uses are not few, the methods of treatment are many. We must, however, accept the necessary limitations that sculpture or ornament must be modelled, not carved, wherever it is proposed that the finished result should be a casting either in metal or other materials. The base may be wood, and the ornament modelled in applied wax, which Viollet-le-Duc has stated to be the old method. The ornament, whatever it is, must be a surface-decoration of a general, simple, structural form.

Repetition is of the very nature of cast-work, and hence the same form as we have seen was often many times impressed in the same mould. Repetition of a few simple elements in different combinations made great actual variety possible, as in the firebacks.

As to surface, rust is without any doubt the natural treatment, and I believe we might well let nature have it so on occasion. Let us suppose a relief good in design, slight in finish, of the best iron, and absolutely untouched from the mould; put up under some simple pent, it will gradually acquire color and texture — too much of both, you think, but I am not sure. Remember, first of all, how frightened we are of beauty, and that natural color and naturally-acquired texture are the very adornments to beauty herself. A joke in Japan tells how the new servant-maid from the country polished off Time's lovely tarnish from a silver vessel "to make it look bright and new." The joke would appear pointless to us, even applied to the tombs of Westminster. Decay is really much less than we suppose, especially on large, rounded surfaces, and with even a small but constant amount of friction the metal keeps free of rust, or probably acquires a weather-skin. Posts that block up roadways (of which there are a good many in Bloomsbury) or the parapet of Westminster Bridge are examples. Internal work, like the finely-designed gratings in Kensington Museum, becomes quite polished.

Galvanizing, the modern version of the tinning, which, applied to iron, is as old as Theophilus, is a valuable process. Galvanizing and good oil gilding right over the surface would probably be a perfect protection, or the galvanizing might be lacquered and varnished in one or many lustrous tints, or in black and gold patterns, like the iron beams of large scales, one of the few simple decorations still done traditionally.

The black of Barff's process is also a valuable method: the Japanese set much store on a black oxide.

Electro-bronzing is another available method of which the French make use, and the dogs at Kensington are examples. Pliny tells us a statue at Rhodes was made of iron and copper for the sake of the color. We find it possible to get Japanese workmen here to furnish out a shilling show. Would it not be possible to get one or two to instruct us in their processes in iron-working, and especially in finishing and coloring the surfaces?

For some work, oiling or varnishing may be sufficient, or thin Berlin black. In many cases, of course, painting is really necessary, for which I would recommend white, gray or black as constant colors, although the real red of the post-boxes is not an example to be followed. Simple black-leading, too, is to be entirely approved.

Some old grates are inlaid in brass, which forms flush-patterns on the surface. Lead might also be suggested, say for patterns and inscriptions on flat slabs, and might be merely beaten into the hollows left in the casting; or even cements and mastics might be so inlaid, if only properly designed. Turning might be used to finish the forms of balusters of severe Classic patterns.

In conclusion, this business of iron-founding is such a vast and important industry for England, that any one might be proud to be engaged in it. A sense of beauty and a reputation for skill are also (but it is a degradation to put it in this form) very marketable commodities. How would it be, do you think, even in this severely "practical" present, while not neglecting necessary commercial conditions, to foster within that a school of art in iron-founding, in which sons of the house, gentlemen in education, should yet be proud to work as artisans. I entirely believe that manufacture in almost any of its branches (to take Napoleon's phrase) would be "a career open to talents," especially now, as we have heard, "the professions are played out." With due training and capability, a reputation and some degree of success is almost certain to be obtained in a craft considered and practised as an art. But even those who make art serve them in some degree do it by trying to satisfy this or that taste in this or that style. They do not, as they should, establish a school of production, with Cellini the founder, Maestro Giorgio the potter, or our own Chippendale the cabinet-maker.

If our prosperity depends on international commerce, beauty is at once the most attractive and cheapest of all inducements, and, with honesty in the wares, the only lasting one. Would it not conserve energy and subserve dignity if advertising were not the only art practised in so many manufactories? If the wares are good, the buyer should be the seeker. All these things are so curiously and closely interwoven, that bad art goes with bad commerce, bad goods, bad society; Belgian cinder girders and riots of Charleroi. It is true in every department of work, of all materials, and of every form of pay, what the Ironmaster said to Emerson: "There's always good iron to be had: if there's cinder in the iron, 'tis because there was cinder in the pay."

DISCUSSION.

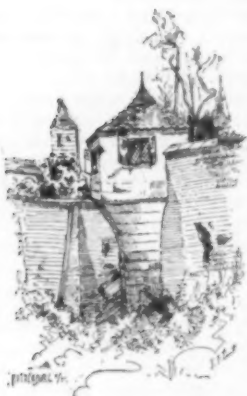
The Chairman, Mr. Statham, said: On the question of repetition, and the use of cast-iron ornaments in relief for such objects as firebacks, that was admirable, because you wanted a thick plate of iron

there to stand the heat, and *repoussé* wrought-iron would probably not do so. So long as you did not go on multiplying a fireback, and sell it by the gross in order to do it cheap, and so long as you made it when wanted, producing a design which would stand the heat, it was perfectly legitimate art. It was not legitimate when people began to make what they called highly-decorated pieces of wrought-iron, canopies and balconies of a very ornamental kind, and then reproduced them, and boasted that they could let you have these beautiful ornaments at such a low price as compared with wrought-iron. It was a dangerous thing, however, to speak one's mind too freely on these matters, as he had discovered. Some time ago he made some strong remarks about the cast-iron productions of a very large firm, well-known in the North, which went in for ornamental cast-iron mantel-pieces, and centre-pieces with spreading branches, and so on; and he got a letter from the firm, telling him that the next time his advertising-agent came to them for an advertisement he would find out his mistake. With regard to the use of cast-iron in structures, he came across a very remarkable instance of what he called the false use of cast-iron ornament in the roof of Olympia, which he went over with the engineer, who was very proud of his work before it was quite finished. It was a splendid piece of work, and he was much struck with the way in which he had supported the great roof principals on fish-shaped, cast-iron pieces, thicker in the middle and pointed at the top and bottom, where it was in a socket, so that on expansion or contraction it quietly turned as far as was necessary. It looked very elegant, and thoroughly answered its purpose. He remarked to the engineer that that was a new use of iron, when the latter replied that it was not yet finished; there was a Corinthian capital to go round the top. The Corinthian capital had nothing to do with the design or the construction, but it was to be put on because people were in the habit of seeing a capital on the top of a column; and, as the engineer said, they would expect it, and he dared not leave it out. That was a flagrant instance of the way how not to use cast-iron, and the man who did that spoiled the best merit of his own design by trying to do something with it which was not fitted to the material. He was much interested in the statement from Dr. Dresser that the Japanese used the *cire perdue* process in cast-iron, which would, of course, enable finer surfaced-work to be done, and a higher finish in relief-work to be obtained than by casting in sand. He did not quite see his way to adopting the idea of leaving the iron to rust, although it did produce a fine color. He feared the tendency would be to rust too much, and to destroy even the bold design which Mr. Lethaby rightly recommended. He agreed with him that anything was better than paint, though that had to be used in large engineering works, being the only real preservative; but in smaller works he should much prefer some of the other processes which had been mentioned.

Mr. Hugh Stannus, both personally and as a member of the Company of Founders, desired to tender his thanks to Mr. Lethaby for the very interesting and exhaustive manner in which he had treated this subject. He had shown in the historical part of the paper that cast-iron had a dignity and nobility, when properly treated, which too many in the nineteenth century were apt to ignore. The danger in working cast-iron had always been in making it imitate other materials. As he had said on a former occasion, the attempt had been to make it imitate in the first place the forms of wrought-iron, and, secondly, the forms of stone, to neither of which it was suited, and the result was vulgarity. Reference had been made to Stevens and his wonderful little sitting lion; the lion was modelled by Stevens, but it was scarcely his design. It was modelled from a sketch which the late Sidney Smirke made of the pretty little lion on the staircase in the Bargello Palace at Firenze; but Mr. Stevens had put so much of his own feeling into it that it might almost be called a new creation. It was the finest sejant lion ever made. Stevens, in his treatment of iron, might be said almost to be the Mozart of iron. Music had been divided into the pre-Mozart and post-Mozart periods as art was divided into pre-Raphaelite and post-Raphaelite; and so with cast-iron, there was a pre-Stevens and a post-Stevens period. The new inventions and new treatment which Stevens introduced when he went down to an iron and bronze foundry at Sheffield would require an entire lecture to deal with. Some interesting examples had been given of grave slabs, but no reference had been made to that wonderful set at Nuremberg. They were great iron-workers there, and many of the grave slabs were of cast-iron, and very dignified they looked. Firebacks were a very legitimate and very interesting use of the material, and in his rambles about the country he often admired in the cottages those grand old Sussex firebacks. The way in which they showed what Mr. Lethaby called "mystery" was very interesting; and he was reminded of a similar instance in Stevens's work, a cast of which he had lent to the present Stevens's Exhibition at the Royal Academy. It was the back of a stove; the front bars were straight, but the back of the stove was semicircular, and the upper part of that back contained a low-relief of the carrying away of Persephone, which belonged to the Plutonic cycle of myths, and was exceedingly appropriate to such a position. There were the fiery red-hot coals and the smoke going up, and there was old Pluto carrying away Persephone in his chariot down to "hell." Andirons had been spoken of, and there were several splendid examples still existing in Sussex. It was very important, as had been said, in cast-iron, to attend to the sectional area. If there were a thin part it would cool more quickly than the thicker part, and when the other parts cooled it

would snap. It was very necessary, therefore, in these andirons to make them of similar sectional area, and that accounted for what appeared at first sight a little want of variety in their shape. It was an instance of the law of the survival of the fittest, and the mere fact that so many of these had survived, showed that they had been made in a form consonant with the nature of the material. Allusion had also been made to stove-fronts. In the Adam's period there were delightful little ornaments, either modelled in wax or cast in lead, and bradded on to the wood mould. Some years ago, at the Carron Company's office on Thames Street, the London partner of the firm showed him an old pattern-book, of contemporary date, full of beautiful designs in the Adam style. He entirely agreed as to the absurdity of cast-iron Corinthian capitals where leaves were fixed on to a central core; but it was interesting to note that, as the name implied, this was the way in which the capital was first designed. The Greeks in the Corinthian time, about the third or fourth century B. C., were great workers in brass and bronze, and any article made of this material was called Corinthian brass. Gradually the word "brass" was dropped, and the word "Corinthian" retained; and so what had originally been a Corinthian brass capital became called a "Corinthian" capital, just as Birmingham brass candlesticks had come to be called "Birmingham" candlesticks, and Damascus cloth, "damask." This showed, therefore, that originally the leaves of the Corinthian capital were made separately, and applied to the marble core. There were existing some Roman ruins at Baalbec, and one of the temples showed what is called the bell of the capital, with holes round the bell in which the leaves were put on separately, the holes being for the rivets. On the question whether these should be added in external work, he agreed with the Chairman, because they knew that water got into the apertures, and either oxidized the iron, or, in time of frost, burst away the leaves. He would draw attention to some interesting capitals of the general Corinthian shape, designed by Mr. Godfrey Sykes, in one of the arcades at South Kensington, which were entirely cast-iron in their treatment. With respect to rust: it was a good custom to let iron rust as far as it would, and then if it was a small object, to slightly heat it, dip it in oil and brush it. The result was, it would never go any farther; and it acquired a magnificent patina which was a true color of iron. He thought there was one general law for the color-treatment of all metals, that the color should be either that of its crystallization or oxidation. There was only the choice of those two, and he should like all metals to be confined to those two. It annoyed him very much to see iron painted white, green, or vermilion; of course, the post-pillars were painted red, like the post-men's livery, because of the royal scarlet, and because the red was conspicuous, like a druggist's lamp; but, except for some such reason, the color of iron should be confined to that of the fracture—which was a silvery gray—or its oxides. He begged to move a hearty vote of thanks to Mr. Lethaby.

TEMPLES OF ANCIENT MAYA.



WHILE many of the ruined cities of the Mayas, the aboriginal people of Yucatan, are in the southern part of the peninsula and in Guatemala, the portion of the peninsula north of the nineteenth parallel was the locality of densest population, and here some of the most important ruined cities of this ancient and exceedingly interesting race are found. Chief among these is Uxmal, that rival in the size and beauty of its architectural remains Copan and Palenque.

Uxmal, with its wonderful Casa del Gobernador, its House of the Nuns, its House of the Dwarf, its Casa de Palomas, its House of the Tortoises, and its unnamed pyramid and dilapidated walls, is one of the

most interesting ruins of the ancient civilization of Yucatan yet discovered. As indicated by the remaining edifices, the city was about a mile square, but the site and the surrounding country is completely hidden in dense and almost impenetrable forests, which have hitherto prevented any deep explorations. The ruins of Uxmal are remarkable because of the better preservation of the buildings, principal among which is the Casa del Gobernador. It is constructed on the broad top of a triple artificial terrace, that is 575 feet square at the base. The first terrace is but 3 feet high and 15 feet broad. Rising above it is the second, 20 feet high, 250 feet wide and 545 feet long; and the third, on which the building stands, is 19 feet high, 30 feet wide and 360 feet long in front. All are supported by substantial stone walls. The platform of the second terrace originally supported several structures, the character and uses of which are hidden in the darkness of the centuries that have rolled over the country since the builders were active in the construction of the buildings.

The Casa del Gobernador, so called by the Spaniards for want of any other name, was constructed entirely of stone. Up to the cornice the façade presents a smooth surface; above is a solid mass

of rich, complicated and elaborately-sculptured ornaments, forming a sort of arabesque. The grandest ornament, which imparts a richness to the whole façade, is over the central doorway. Around the head of the principal figure are rows of hieroglyphics. They differ somewhat from the hieroglyphics found at Copan and Palenque, and are richer, more elaborate and complicated, but of the same character. From their conspicuous position, they undoubtedly contain some important meaning; probably they were intended as a record of the construction of the building, the time and the people by whom it was built.

The building has 11 doorways in front and one at each end. There are no openings in the rear. There are 24 rooms in the structure, two of which are each 60 feet long, one 13 feet and the other 11½ feet wide, one 23 and the other 22 feet high to the top of the arch. The walls are constructed of square, smooth blocks of stone, and on each side of the doorway are the remains of stone rings fixed in the walls with shafts, probably the supports of the doors which have rotted and crumbled to dust. Upon the inner side of the rear wall were seen several prints of a red hand with the thumb and fingers extended, not drawn or painted, but stamped by the pressure of the living hand upon the stone. He who made it had pressed his hand, wet with red paint, against the stone. A striking feature about these hands is that they are exceedingly small. The extended hand of the average American will completely cover the prints upon the wall at Uxmal.

In the south end apartment of the Casa del Gobernador there was found a sculptured beam of sapote wood, which had done service as a lintel over a doorway. It was 10 feet long, 1 foot 9 inches broad and 10 inches thick, and was covered with hieroglyphics. The artistic finish of the sculpture on this beam was superior to any example of this art that had thus far been discovered, and Mr. Stephens, with great difficulty, had it shipped to New York in transit for the National Museum at Washington. But here it was burned in Mr. Catherwood's Museum in 1841, together with a very large and interesting collection of archaeological fragments from all parts of the world.

Chief among the structures on the wide area of the second terrace is the Casa de las Tortugas, or Temple of the Turtles, so called from a row of sculptured turtles that ornaments the cornice. The temple is 94 feet in front and 34 feet deep, and is distinguished for its beauty of proportion and simplicity and chasteness of ornament. Little except the massive walls of this building remains. The roof has caved in, and luxuriant forest-trees are growing up from the interior. What use was made of this building has not been discovered. The excavation of its interior was not attempted.

About 240 feet distant from this building, in a northerly direction, are two ruined edifices facing each other, 70 feet apart. Each is 128 feet long and 30 feet deep. They appear to have been exactly alike in plan and ornament. The confronting sides were embellished with sculpture, and there is still visible the fragments of entwined colossal serpents, which ran the whole length of the walls. In the centre of each façade, at points directly opposite each other, are the fragments of stone rings, 4 feet in diameter each, fastened in the wall by stone tenons of corresponding dimensions. Neither of these structures has either doorway or window, or any form of opening. They are merely four great walls, filled-up with stones and earth, and for what purpose they were built is still merely conjectural. The court between the buildings was evidently used as a gymnasium and for athletic sports.

Still farther north is the Casa de las Monjas, or House of the Nuns, the second in size and importance of the structures at Uxmal. It is quadrangular in plan, with a court-yard in the centre. The quadrangle is formed of four long, disconnected structures: the front one, facing south, is 279 feet long; the eastern structure is 158 feet long, and contains four suites of rooms, fourteen in all, opening upon the court-yard; the rear building, on the north side of the court-yard, is 264 feet long, and contains twenty-eight rooms, also opening on the court-yard, and the western wing of the quadrangular structure contains fourteen rooms, and is 173 feet long. Above the cornice, which is about ten feet from the foundations, the buildings are richly decorated and ornamented with graven figures and pictures.

In the centre of the front corridor is a gateway 10 feet 8 inches wide, spanned by the triangular arch and leading to the court-yard. In the front wall of this front pavilion or wing, on either side of the arched entrance to the court-yard, are four doorways with wooden lintels opening to disconnected apartments averaging 24 feet long, 10 feet wide and 17 feet high to the top of the arch. These are the only rooms in the four pavilions that open directly to the outer world, except two long, narrow rooms at the ends of the south and north pavilions—which open towards the ends, and were probably the apartments of the guards and servants employed to watch the premises. The exterior of each of the other three pavilions is a dead wall, without openings of any sort.

Above the cornice, which encircles every building about 10 feet from the foundation, all the buildings are richly ornamented. The four great façades facing the court-yard are ornamented from end to end with the richest and most intricate carvings known in the art of the builders of Uxmal. This court-yard is 214 feet wide and 258 feet deep. It is overgrown with bushes and grass, and is the favorite nesting and brooding ground for large flocks of quail.

The lower portion of these buildings is constructed of solid blocks of square hewn stone. In the cornice the stones are especially large

and are regularly dressed to match one another. In the upper portion there are large panels of hewn stone, with sculptured figures of idols and heroes and hearts and ornamental figures in graven relief, and the spaces between these panels are built of rough stone and plaster and once bore plaster ornamentation, but this has for the greater part crumbled away: intertwined among all the ornaments on each building are two huge serpents of stone, which run entirely around each structure.

At the north end of the court-yard, facing south toward the arched entrance, is a lofty building 264 feet long, standing on a mound 20 feet high. The ascent is by a grand staircase 95 feet wide, flanked on each side by a building with sculptured front and having three doorways, each leading to apartments within. The height of this building to the upper cornice is 25 feet. It has 13 doorways, over each of which rose a perpendicular wall 10 feet wide and 17 feet high above the cornice, making the whole height 42 feet from the ground. These lofty structures, erected no doubt to give grandeur and effect to the building, at a distance look like turrets; but only four of them are now standing. The whole grand façade, including the turrets, is ornamented with complicated and elaborate sculptures, among which are human figures rudely executed, two of which appear to be musicians—one playing on something like a harp and another upon an instrument somewhat resembling a guitar; a third is in sitting posture, with hands across his breast and tied by cords, the ends of which hang over his shoulders. This building has one curious feature: it is erected over and completely incloses a smaller one of older date. The doorways, walls and wooden lintels of the latter are all seen, and where the outer building is fallen the ornamented cornice of the inner one is visible.

In the rear of the eastern pavilion and only a short distance away is the House of the Birds, consisting of several ranges of buildings on lower terraces than the House of the Nuns. In one of these was found the largest rooms among the ruins of Uxmal. Two of them are each 53 feet long, 14 feet wide and about 20 feet high. In one of them are the remains of a mural painting, and in the other is the nearest approach to a perfect arch found among the ancient structures of Yucatan.

Adjoining this range of buildings is the so-called House of the Diviner. It is built upon a pyramidal mound that rises 88 feet high from the terrace, and is 235 feet long and 155 feet wide. The building is 17 feet high and incloses a court-yard 135 feet long and 85 feet wide. About 20 feet up from the base of the mound there are indications of a range of apartments, the entrances to which are visible still, with their lintels of sapan wood. They were not explored. About 60 feet up the mound there is a solid projecting platform, on which stands a building more elaborately ornamented than any other edifice in Uxmal. A great doorway opens upon the platform, leading the way to two apartments, the first 15 feet wide, 7 feet deep and 19 feet high, and the inner one 12 feet wide, 4 feet deep and 11 feet high.

The crowning structure of the mound is a long and narrow building measuring 72 feet in front and but 12 feet in depth. In the ornamentation of the walls of this building are evidences of the obscene rites and human sacrifices that characterized the religion of the people of Uxmal. The interior is divided into three apartments, the middle one 24 feet by 7, and those on each side 19 feet by 7. They have no communication with one another; two have their doors opening to the east and one to the west. A narrow platform projects from the four sides of this building, and up the eastern side of the mound ascends a grand staircase 102 feet high, 70 feet wide and containing 90 stone steps.

The Padre Cogolludo, the earliest historian of Uxmal, says that in the apartments of this building were the idols, and that there the people made their sacrifices of men, women and children.

"The High Priest," says he, "had in his hand a large, broad and sharp Knife made of Flint. Another Priest carried a wooden Collar wrought like a Snake. The persons to be sacrificed were conducted one by one up the Steps stark naked, and, as soon as laid on the Stone, had the Collar put upon their Necks, and the four priests took hold of the hands and feet. Then the High Priest, with wonderful dexterity, ripped up the Breast, tore out the Heart, reeking, with his Hands and showed it to the Sun, offering him the Heart and Steam that came from it. Then he turned to the Idol and threw it in his face, which done he kicked the body down the steps, and it never stopped till it came to the bottom, because they were very upright."

In the rear of the Casa del Gobernador is the Casa de Palomos, or House of the Pigeons. It is 240 feet long, and now but little more than a heap of ruins. The front is still standing, but the roof has collapsed and the apartments are but gigantic pots in which the vegetation of this tropical region finds luxuriant growth. Along the centre of the roof, running lengthwise, is a range of structures built in pyramidal form, of stone, about three feet thick and having small openings in them. They are nine in number, and were evidently the front walls of a series of large structures which have crumbled away. In the centre of this building is an archway 10 feet wide and leading into a court-yard 180 feet long and 150 feet deep. On the right and left are ranges of ruined buildings, and rising behind the left range is the large pyramid heretofore mentioned. Through the arch in the rear range of buildings one passes to another court-yard 100 feet long and 85 feet deep, flanked on either side by ruined buildings, on the opposite side of which is a flight of steps

leading to the top of a mound 200 feet long, 120 feet wide and 50 feet high. Surrounding this is a building 100 feet long, 20 feet wide and about 30 feet high, divided into three apartments, the interior description of which would be the same as the House of the Diviner. The plastered walls show plain traces of mural pictures illustrative of religious ceremonies and royal pageants.

All over the grounds of this most interesting city of a dead civilization were found sculptured columns, images of historic personages and grotesque figures, principally distortions of the human face and form. On many of these are hieroglyphics and symbolic inscriptions, the purport of which has thus far been left to conjecture. Over all, the chemistry of the revolving years has sifted the mold of vegetation, deep and corrosive, and out of it rises a perennial growth of trees and shrubbery that the scientific explorer must first remove before the richest treasures of ancient Uxmal will be laid bare.—*New York Times.*



[Contributors are requested to send with their drawings full and adequate descriptions of the buildings, including a statement of cost.]

DETAIL OF THE ENTRANCE PORCH, OSBORN HALL, NEW HAVEN, CONN. MR. BRUCE PRICE, ARCHITECT, NEW YORK, N. Y.

[Hello-chrome issued only with the International and Imperial Editions.]

A VAULT AT GREENWOOD CEMETERY, BROOKLYN, L. I. MESSRS. RENWICK, ASPINWALL & RUSSELL, ARCHITECTS, NEW YORK, N. Y.

THIS vault was erected for Mrs. Lispenard Stewart of this city. It is constructed of granite and lined with enamelled white brick and marble, the detail is Romanesque of the pure southern variety and is very carefully and effectively cut. The builders were Messrs. Pirson & Renwick, New York.

A COTTAGE AT TUXEDO PARK, N. J. MESSRS. RENWICK, ASPINWALL & RUSSELL, ARCHITECTS, NEW YORK, N. Y.

This cottage is perched up near the summit on one of the heavily wooded hills which abound in the park. A winding road passes the front of the house which necessarily does not show in the drawing and access is thereby made much easier than would at first appear to be the case. The whole house is shingled except the cellar which is of stone with large buttresses which are quite a feature even from a distance. The contractor was Frank W. Moore, New York.

BUILDING FOR THE BOSTON REAL ESTATE TRUST, BOSTON, MASS. MESSRS. CABOT, EVERETT & MEAD, ARCHITECTS, BOSTON, MASS.

This building is now in course of erection at the corner of Congress and Purchase Streets, Boston. The front is to be of Sanda Eastern water-struck brick; the floors and roof of hard pine, mill construction without furring. The owners are the Boston Real Estate Trust, and the builders Messrs. Gooch & Pray. Messrs. Bradley & Woodruff are to be the tenants.

NETLEY CORNERS, MINNEAPOLIS, MINN. MR. JAMES C. PLANT, ARCHITECT, MINNEAPOLIS, MINN.

CONGREGATIONAL CHURCH, WAKEFIELD, MASS. MESSRS. HARTWELL & RICHARDSON, ARCHITECTS, BOSTON, MASS.

ST. LUKE'S CHURCH, MANSFIELD, O. MR. W. G. PRESTON, ARCHITECT, BOSTON, MASS.

[Additional Illustrations in the International Edition.]

HOUSE ON YORKSTRASSE, BERLIN, PRUSSIA. HERR RINTZ, ARCHITECT.

[Gelatine Print.]

HOUSE OF HERR HATNER, BUDA-PESTH, AUSTRIA. HERR ALFRED WELLISCH, ARCHITECT.

[Gelatine Print.]

A PORTE-COCHERE IN THE QUARTIER ST. GERMAIN, PARIS, FRANCE.

[Gelatine Print.]

FROM UNION OFFICES. MESSRS. DRAKE & BRYAN, ARCHITECTS,
BRISTOL, ENG.

THIS design was submitted in competition. The accommodation provided offices on the ground-floor for the clerk to guardians, superintendent, registrar, and highway and urban surveyors, together with large waiting-room and relieving-officer's room for the distribution of outdoor relief. On the upper floor were board and committee rooms, members' and paupers' anterooms, stores and the usual conveniences. The caretaker's lodge was adjoining, and at the rear of main building. Nothing, however, is being done by the guardians in the way of carrying out any scheme, and it appears that another addition must be made to the list of abortive competitions.

VICARAGE, TWEEDMOUTH, ENG. MR. F. H. WILSON, ALNWICK,
ENG., DIOCESAN ARCHITECT.

THE site of the new vicarage at Tweedmouth, Northumberland, is pleasantly and centrally situated on rising ground above the road that lies between it and the churchyard. There was a building on a portion of the site, which has been converted into a commodious parochial-room, to which a covered approach has been made from the house.

HOUSE FOR MR. EDWIN LONG, R. A., HAMPSTEAD, ENG. MR.
R. NORMAN SHAW, ARCHITECT.

THE CORRIDOR OF THE SAME. MR. R. NORMAN SHAW, ARCHITECT.

PLANS OF THE SAME. MR. R. NORMAN SHAW, ARCHITECT.



NEW YORK, N. Y., March 25, 1890.

TO THE EDITORS OF THE AMERICAN ARCHITECT:

Dear Sirs,—The case of Lamb & Rich vs. A. J. Bloor was decided on Monday, March 24, in Superior Court, New York City, in favor of Lamb & Rich, by a verdict of \$2,000 and costs. As a statement of this controversy was made in your columns, it seems not improper to advise you of the result, and to further state that, in pressing this case, we have been actuated by no feeling of anger whatsoever, but because of the principle involved. Very truly,

LAMB & RICH.

SUPERIOR COURT OF THE CITY OF NEW YORK. TRIAL TERM, PART III.

HUGH LAMB, et al.,
against
ALFRED J. BLOOR.

CHARGE TO THE JURY. TRUAX, J.

Gentlemen: In 1887, the plaintiffs and the defendant were architects doing business in the city of New York, and the defendant occupied the official position of Secretary to the Society or Institute of Architects in the United States. In December, 1887, the defendant published of the plaintiffs the following libellous publication: "To reputable architects: Respectable practitioners are hereby cautioned against entering into interprofessional relations with the firm of (Hugh) Lamb and (Chas. A.) Rich, architects, of New York City." Then follows a statement of a course or an alleged course of dealings between the plaintiffs and the defendant, and this statement: "The despicable course of this precious firm of architects in this matter is the more apparent when it is considered that the services rendered to them by the undersigned have been of the most exceptional kind," etc. (stating what he had done).

"Taking, therefore, into consideration his advisory relations with so many architects throughout the United States," ("his" means the defendant's), "particularly among the younger men, and the probability that, by his silence, this disreputable firm might feel emboldened to attempt a similar dishonorable course with other practitioners, and, above all, recognizing the necessity of the profession protecting itself from itself before it insists on being protected from Philistinism in the public, the undersigned hereby warns the fraternity against any voluntary interprofessional association with the said (Hugh) Lamb and Chas. A.) Rich." (Signed) "A. J. Bloor."

The publication was libellous; it was published of and concerning the plaintiffs as architects, and the plaintiffs are entitled to recover from the defendant such sum as you think will compensate them for the injury that they have sustained. You may not only give them a sum that will compensate them for the injury they have sustained, but, if you believe that the defendant was malicious in his publishing the libel about the plaintiffs, you may give a sum in excess of the compensatory sum—a sum by way of punishment to the defendant.

Now, whether or not the action of the defendant was malicious, can be determined by you from the communications between the plaintiffs and the defendant. You may infer from the communication that was written shortly prior to the publication of this libel, written by the defendant to the plaintiffs, in which he stated to them that, unless they paid, he would publish the libel, and you remember, in that connection, he sent a copy of this publication, and said that he would publish it.

You may infer from this fact malice on the part of the defendant. And the letter in which he made this statement was in itself a violation of the laws of the State of New York; it was an attempt to blackmail the plaintiffs. The alleged agreement that the defendant says that he made with the plaintiffs, which, by the way, was not proved on the trial, that agreement stated by him in his paper, or attempted to be stated by him in his paper, was a violation of every principle of honesty on the part of the defendant. He had no right to make any such agreement; it was a corrupt agreement, and there is no evidence that it was made. He attempted to make it, but there is no evidence here that would warrant you in finding that the plaintiffs agreed with him in his attempt to make it.

I say, if you see fit to find from the communication of the defendant to the plaintiffs, the communication that enclosed this proposed libel, you may find that the defendant was actuated by malicious motives; and if you do find that he was actuated by malicious motives, you may punish him for so acting.

I leave the case with you, gentlemen.

I never have seen such an audacious attempt at extortion on the part of any man as on the part of the defendant in this action.



ST. LOUIS CHAPTER, A. I. A.

ST. LOUIS, MO., March 11, 1890.

TO THE EDITORS OF THE AMERICAN ARCHITECT:

Dear Sirs,—Will you kindly announce in your next issue that there has just been organized in this city a St. Louis Chapter of the American Institute of Architects, with the following officers and members: President, P. P. Furber; Vice-President, J. H. McNamara; Secretary, A. F. Rosenheim; Treasurer, C. K. Ramsey; Associates: T. C. Link, J. Beattie, T. B. Annan, T. J. Furlong, W. S. Eames, T. C. Young, C. W. Clark, K. Tully.

Yours truly,

A. F. ROSENHEIM, Secretary.

THE T-SQUARE CLUB OF PHILADELPHIA.

THE last and most enthusiastic meeting for the season of the Philadelphia T-Square Club was held on Wednesday evening, February 26, at the office of T. P. Lonsdale, at the corner of Fourth and Walnut Streets.

In the regular competition subject, "A Town Pump," twelve drawings were submitted, and, after criticisms, mentions were awarded as follows: First mention, Crawford Coates; second mention, George Nattress; third mention, Frank Hayes.

The report of the Special Committee on artisan competitions in wood and metal designs was accepted, and the Committee was discharged. The matter was then placed entirely in the hands of the Executive Committee. This will inaugurate a series of competitions between the modellers, carvers and metal-workers of Philadelphia, the first of which will occur in October next. The programme will be furnished for publication later. Certificates of awards, bearing the seal of the Club and the officers' signatures, will be presented to the successful competitors. The Art Club Architectural Committee reported progress.

From the fact that heretofore the Club has had no permanent quarters, but has held its meetings in the offices of the professional members, as well as from the economical way in which all business matters have been handled, the dues have been but nominal; but now that it is growing so rapidly, having doubled its membership in the last eighteen months, permanent and convenient quarters have been found an absolute necessity. This will require that the dues be raised to at least \$5 per annum. In accordance with these demands, the Executive Committee was instructed to secure a room for the Club, and have it ready for occupancy at the next regular meeting in October, 1890.

The next competition will be "A Seal for the Philadelphia T-Square Club." The successful competitors for this season will be given later, there being a tie at present for second place.

The following were elected to membership: Oscar Wenderoth, George Morris and Charles E. Lee.

The thanks of the Club were then extended to Mr. Lonsdale for his hospitality, after which the meeting adjourned.

LOUIS C. HICKMAN, President.

G. C. PARMETER, Secretary.

DEPARTMENT OF ARCHITECTURE, BROOKLYN INSTITUTE.

At a meeting of the Department of Architecture of the Brooklyn Institute, March 19, 1890, the following preamble and resolutions were adopted:

Whereas, An act has been introduced in the Assembly of the Legislature of this State, and referred to the Committee of Ways and Means, which reads as follows, to wit:

AN ACT FIXING THE SALARY OF THE COMMISSIONER OF THE CAPITOL.

The salary of the Capitol Commissioner is hereby fixed at ten thousand dollars per annum. And it shall be his duty, whenever requested by the proper authorities, to furnish plans and specifications

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for all public buildings belonging to the State, and to render such services as may be required, without further compensation.

This act shall take effect immediately.

Resolved, That in the judgment of this Department of Architecture of the Brooklyn Institute, the passage of such an act, which is substantially the creation of office of State Architect, will be detrimental to the interests of the people, and the promotion of architecture by preventing free and open competition.

We are, therefore, opposed to the office of State Architect as not in accord with the culture of the times and the liberality of our institutions, which call for the highest excellence obtainable—the best from the best.

Resolved, That feeling confident we voice every architectural institution in the land, we would respectfully urge that the plans for all public buildings—Federal or State—be given out among our architects for competition, who shall be compensated therefor, and that none but architects be selected to pass judgment upon the architectural merits of such plans.

In thus protesting against the creation of a Government or State Architect, we do so not believing it possible for any individual to possess originality sufficient which, in the designing of a number of public buildings, will not wane into more or less commonplaceness.

Neither do we favor any individual's peculiar standard of architecture, or interference with, or biasing of, that novelty and attractiveness which is rapidly giving American buildings a prestige.

While thus opposing the office of State Architect, we most respectfully suggest this substitute:

That upon the recommendations to the Governor of the State, or the insertion of the names in the act, of three or five architects, from any institution recognized among the profession as authority in architecture, they be appointed and constitute an Advisory Board, having the management of the competition, subject to the rules of said institutions, and of the building until completed, being paid per session for their services; the architects successful in the competition to receive the customary fee, to be accountable to the Advisory Board, which in its turn reports to the State authorities.



[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.]

ONE WAY OF ARRANGING ARCHITECTURAL PRINTS.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—May I take advantage of this writing and describe for some of the readers of the *American Architect*, my system of keeping photographs, sketches and illustrations?

I have had made a case divided into compartments each 6 $\frac{1}{2}$ " high x 15" wide x 12 $\frac{1}{2}$ " deep; in each compartment are two cloth-bound cardboard boxes 3 $\frac{1}{4}$ " x 14 $\frac{3}{4}$ " x 12", and these opening at the outer end, both up and down, may be partly drawn out and opened, to get at the contents. On the outside of each cardboard box, is a label.

The lower part of the case contains boxes 3 $\frac{1}{4}$ " x 14 $\frac{3}{4}$ " x 18", for larger photos, etc., these two sizes seem sufficient. I have found that photos mounted on cloth—when kept flat—are in many ways preferable; take up much less room, weigh less, are more portable, and are easily put on the wall for study. I have made about fifty divisions—and sub-divisions of these illustrations—such as:

Churches.—Gothic, Romanesque, Byzantine and Renaissance.

Residences.—Châteaux; detached: half-timbered houses, brick and stone mixed, brick (or stone) and frame; *en bloc*; city houses, apartments and hotels.

Details.—Mantels, stairs, furniture, carving—wood and stone, decoration, capitals and bases, metal-work, pulpits, fonts, organ-cases, doorways, gateways, entrances, loggias, cloisters, arcades, towers and spires, domes and roofs, fountains, memorials, tombs.

Public Buildings.—Post-offices, railway stations, court-houses, town-halls, gymnasiums and baths, club-houses, Y. M. C. A., libraries, schools and colleges, hospitals and jails.

Business Buildings.—Storehouses, office-buildings, banks, etc.

Everything pertaining to each subject is put in its own box, and in this connection I should like to say to the editors (or publishers) of the *American Architect*, that their illustrations would be more serviceable if, in the case of "Envois of Rotch Scholarship, envois of *American Architect*, and the cuts on page 10," the page would contain only examples of one subject—if there be not enough matter for a double page, then make it a single page, which is more available for reference, whether the plates be bound or kept loose.

I am very truly, WM. MARTIN AIKEN.

A QUESTION AS TO COMPENSATION.

BOSTON, MASS., March 17, 1890.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—Would you kindly advise us through your columns of the usual professional charges in the under-tated case. An architect is engaged to prepare plans for a brick church, preliminary sketches for which are submitted to, and approved of by the pastor, who instructs him (the architect) to prepare full working-drawings

and specifications. In pursuance of these instructions such drawings and specifications are made, submitted and approved; and the foundation work contracted for, and put in. When the bids for the superstructure are received, the pastor is of opinion that the means at his disposal do not warrant such an expenditure, and the architect is instructed to prepare working-drawings and specifications for a frame church of similar design, or with only such alterations as were rendered necessary by the new materials employed in the construction. Such designs were made, submitted and approved of, bids received, and the design finally abandoned.

The architect was now instructed to prepare another design of equal seating capacity, and of the same general dimensions as the former. This last was an entirely new design, worked out in a different style from the others, the plans were approved of, bids received, contracts entered into, and the church erected and finished under the architect's supervision.

The information required is, what would be a fair charge by commission for:

- 1st. The original design for brick church?
- 2d. For changing the design from brick to wood, the designs being essentially similar?
- 3d. For the new design for frame church erected under the architect's supervision?

Yours, etc., CONSTANT READER.

[Much the best way in such cases is for the architect to charge the usual commission on the cost of the building actually executed, and, for the work abandoned, to estimate as nearly as possible the time spent on it by himself and his assistants, and make a reasonable extra charge on this basis. No one could object to such an extra bill, and, if based on time actually spent, the architect would get a fair remuneration, without the wrangling over whether the alterations were more or less troublesome than designing new work and so on which would probably follow the presentation of a bill for a fixed percentage.—EDS. AMERICAN ARCHITECT.]

BOOKS ON SCHOOL-HOUSES.

LANCASTER, PA.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—Would you please inform me where I can obtain the best work or works upon modern school-house construction.

Your answer will greatly oblige, SCHOOL BOARD.

[Robson's "School Architecture" published in Weale's Series; a pamphlet by T. M. Clark, issued by the United States Bureau of Education; the last Annual Report of the Massachusetts Board of State Police; the files of the *Engineering and Building Record*.—EDS. AMERICAN ARCHITECT.]

THE NEW YORK OBELISK AND ITS PROTECTING COATING.

NEW YORK, N. Y. March 24, 1890.

TO THE EDITORS OF THE AMERICAN ARCHITECT:

Dear Sirs,—The statements (copied from the *Scientific American*) which appear in your issue of March 22, respecting the condition of the obelisk in the Central Park, New York, are absolutely without foundation.

The *Scientific American* was evidently misled by an article in the *New York Herald* of November 24, 1889, instigated by parties opposed to the paraffine process.

A critical examination of the obelisk has since been made by experts, with the following result, which I copy from the *New York Herald* of December 23, 1889:

"Thus far the examination has been perfectly satisfactory, not the slightest disintegration has been discovered, and there is no evidence whatever of any injury having been done by the application of the paraffine process."

The *New York Herald* was unwittingly duped in its first article. The one of later date is from the report of its own specially detailed representative, who daily watched the examination of the obelisk, and credit is due to the *New York Herald* for the prompt and honorable manner in which it made the correction as soon as it was satisfied that the obelisk was safely preserved.

As such an article as the one to which I refer in your widely-read paper is likely to lead to serious misapprehension respecting the condition of the obelisk, I think it only fair to put you right in this matter, and respectfully request you to publish the above in justice to all interested.

ROBERT M. CAFFALL.

[We are sorry to have been beguiled into making unwarrantable statements and inferences.—EDS. AMERICAN ARCHITECT.]



DR. SALVIATI.—The death of Dr. Salviati is announced at the age of seventy-four. His name has been to a great extent identified in Venice and in England with the revival of the art of mosaic and of the Venetian artistic glass industry. He was not himself an artist or designer, and his efforts in setting up again these two artistic crafts on their old ground seem to have been prompted a good deal by patriotic feeling, coupled with that kind of insight which enables the possessor of it to foresee a probable demand and provide for it. In as far as the Murano glass manufacture was concerned, it was carried on in too archaeological a spirit, even to the conscious production of irregularities

and crookedness of make; a kind of thing which took the public when it was novel, but which the best artists saw through and on occasion denounced. In regard to this kind of effort the Murano glasswork has had its day of fashion, and capricious modern taste is getting tired of it, as is pretty sure to be the case with all art work which is a revival of old fashions for the sake of revival; but there is no doubt that incidentally it gave an impulse to the long-forgotten idea that table-glass was a thing capable of beautiful artistic design and expression, and not merely a utilitarian class of goods for practical use; and most of the other efforts at giving artistic form and spirit to glass utensils have been at all events stimulated by the example of Salviati's enterprise or the desire to rival it. In regard to mosaic, the position taken by Salviati and his coadjutors is more stable. They provided for the manufacture of the material and the proper carrying out of the process of fixing; and though a good deal of too archaic work was done by them for church architecture in the high tide of the Gothic movement, the more rational artistic use of the material by designers has now brought mosaic decoration into higher repute, and the gratitude of the artistic world is equally due to the man who recalled and revived the use of such a splendid medium for architectural decoration.—*The Builder*.

CASTELLO SAN ANGELO, ROME.—There is hope that the polygonal medieval towers of the castle of St. Angelo may after all not be included in the work of destruction commenced in carrying on the Tiber Embankment. The President of the Artistic International Association, Signor Palmaroli, and the architect, Signor Placentini, have waited on the Minister of Public Instruction to make fresh representations on the subject. His excellency showed himself well-informed about the matter, and expressed to them the extremely favorable impression he had received from the perusal of Captain Borgatti's project, which, it may be remembered, was in favor of letting the new Riverside Road pass behind the castle instead of in front of it, the latter course necessitating the destruction of some historically interesting portions. Several other members of the cabinet are against the scheme of destruction; but the Minister of Public Works, in whose hands the affair rests, is obstinately bent upon it. Signor Finelli, though doubtless an able public servant in other matters, does not possess the kind of culture which would enable him to appreciate, or even to understand, the weight of his opponents' arguments. The other ministers, however, find their hands strengthened by the support of the artists and of a large portion of the press, and it is now decided that there shall be a conference, with a view to determine the point in dispute, between the Ministers of War and Public Instruction and the Minister of Public Works. The newspaper which enjoys the reputation of being Signor Crispi's organ has all along been in favor of Captain Borgatti's plan.—*London Daily Telegraph*.

THE NEW NATIONAL PORTRAIT GALLERY.—The New National Portrait Gallery will stand back of the National Gallery on Trafalgar Square, London, and the architect will be Ewan Christian. He has been cruising about the Continent studying edifices in use as galleries for works of art. Hemming's Row, behind the National Gallery, will have to be closed, if the present designs are accepted. There will be forty feet between the backs of the new gallery and the old, the front of the former being on the side street which enters Trafalgar Square. But on the east side the two buildings will meet without being connected, and there it is proposed that the pseudo-Greek motives of the façade of the old structure shall be continued round the corner along the east side till the new structure is met. The architect of the old building was Wilkins. He was granted £70,000 and the Corinthian columns from Carlton House wherewith to decorate the edifice. The new structure will consist of a tower abutting on the old, with a stone building of three stories somewhat Florentine in style. The entrance will face Chandos Street.—*New York Times*.

FIREPROOF WHITEWASH.—It is found that a most effective composition for fireproofing exterior surfaces may be formed by slaking a sufficient quantity of freshly-burned quicklime of the best grade, and when the slaking is complete there is added such an amount of skim-milk, or water in its absence, as will make the liquid of the consistency of cream. To every ten gallons of this liquid are added separately and in powder, stirring constantly, the following ingredients in the order named: two pounds of alum, twenty-four ounces sub-carbonate of potassium or commercial potash and one pound of common salt. If white paint is desired a further addition is made to the liquid, though the whiteness is found to be improved by a few ounces of plaster-of-Paris. Lamp-black has the effect of giving a number of shades from slate color to black. Whatever tint is used it is incorporated at this stage, and the whole, after being strained through a sieve, is run through a paint-mill. When ready to apply the paint is heated nearly to the boiling point of water, and is put on in its hot condition. It is found that the addition of a quantity of fine white sand to this composition renders it a valuable covering for roofs and crumbling brick walls, which it serves to protect.—*The English Mechanic*.

THE MUMMY CATS OF BENI HASSAN.—We spoke recently of the arrival in Liverpool of 180,000 mummy cats, which, after having lain in their sacred burial place at Beni Hassan, in Egypt, for 3,000 years or so, are now about to fill their final and probably most useful function of manuring English land. Farmers are indebted for this excellent lot of twenty tons of manure to the lucky accident which befel an Egyptian who, while dying, fell into a pit which proved to be a subterranean cave completely filled with mummy cats, each one being separately embalmed and wrapped up after the usual fashion of Egyptian mummies. Pussy of n. c. 2,000 was a sacred object to a section of the ancient Egyptians, and when a cat died—as even a cat eventually must—it was buried with as much honor as any human being. The finder, having reported his discovery, laborers were soon at work and turned out tens of thousands of the mummies. Some were taken by the farmers of the place, others went to a merchant in Alexandria, who shipped

them to Liverpool, where another merchant, a local fertilizer, bought the consignment at £3 13s. 9d a ton. The auctioneer, adding insult to injury, knocked down the lot of 180,000 cats with the head of one of them as a hammer. To such base uses may the gods of Egypt come!—*Exchange*.

AN ANECDOTIC STATUE OF THE EMPEROR FREDERICK.—A statue is about to be dedicated at Kaiserslautern which is destined to commemorate a touching episode in the life of the late Emperor Frederick. A few years before his accession to the throne, when still Crown Prince, he happened to visit the well-known hospital of the Protestant Deaconesses at Kaiserslautern. With his customary kindness, he spoke to many of the patients. Among the latter was a little cripple, the son of an infantry sergeant. On finding the child bore his name, he took him up in his arms, and began to caress and to fondle him. Encouraged by these demonstrations of good-nature, the little fellow's shyness disappeared, and he began to play with the stars and decorations worn by the Crown Prince. The latter, on observing this, turned to those present, and exclaimed, half-mockingly, "Well, I am glad that these baubles have become of some use after all!" The statue, which is of bronze and slightly above life-size, is set up in the great quadrangle of the hospital, and represents the Crown Prince holding the little cripple, while the latter is toying with his decorations and orders.—*London Standard*.

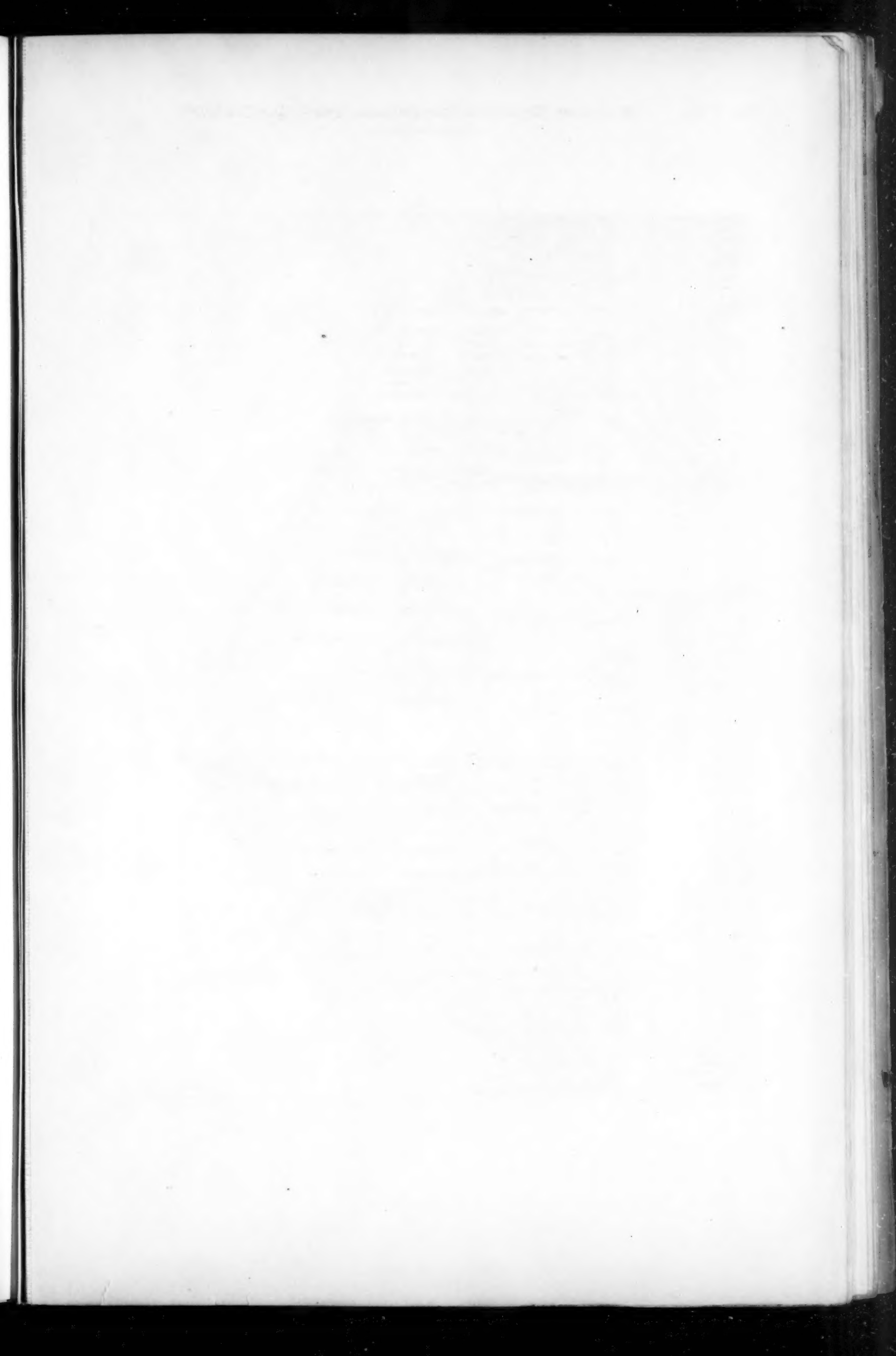
ART AT THE VATICAN.—A distinguished Egyptologist, just returned from a considerable stay in Italy, has given a London correspondent some remarks about the Vatican Museum, at Rome, which are particularly striking so far as they refer to the treatment which Egyptian antiquities have received at the hands of the curators of two or three generations ago; statues which were incomplete, say, on account of the destruction of a limb or a head, have been restored according to no principle but that of comeliness of form and outline. This has been done without regard to anything but appearances, and ethnography and science and the fitness of things in general were scornfully subordinated to the sentiment of what was understood to be beauty, but which really was incongruity. The antiques thus pieced together with modern restorations are frequently so far vitiated as to have become not reproductions or conscientious imitations of the parts of the body which were originally there, but virtually forgeries, the tendency of which is rather to mislead than to inform.—*Pall Mall Gazette*.

TRADE SURVEYS

THE influences which have been at work for years past to drive manufacturing enterprise out of large cities are still active. In the long run, no particular harm will be done to the cities, and the enterprises which take advantage of cheaper locations will be profited. A decentralization is in progress, and it is a very necessary departure. New conditions are arising; new markets are opening; new sources of fuel-supply are being developed; new rules concerning the distribution of traffic and merchandise are being established. As a result, manufacturing conditions, interests and requirements are being gradually modified. Years ago, the larger cities presented certain attractions and advantages to the manufacturer which they do not now present. Some of our largest and most prosperous industrial establishments are in localities remote from large cities. New investors, instead of purchasing sites in large cities, as was the custom some few years ago, now are apt to select, as the theatre of projected enterprise, some remote locality, which, until recently, has never attracted the eye of the manufacturer. In several sections of Texas, Arkansas and Colorado little industrial communities are springing up, which are the forerunners of many others. According to a good authority, between two and three hundred manufacturing towns have sprung up within the past twelve months, of which Middlesborough, Ky., may be taken as a fair sample. A scattering of industrial energy seems to be going on, but there is method in it, and necessity for it. The latest developments in monetary centres are indicative of stringency, although reports say "money is easy." An unusual outflow of currency westward is now in progress, owing to the urgent requirements in that direction. Banking facilities, abundant though they seem to be, are really insufficient. Business men recognize the possibility of danger, and are seeking to strengthen their credit, and to avoid the necessity for suddenly realizing upon their products, by a wise and careful restriction. The fact is recognized that these fluctuations in the volume of currency are dangerous, and that they forbode greater or less trouble in the future.

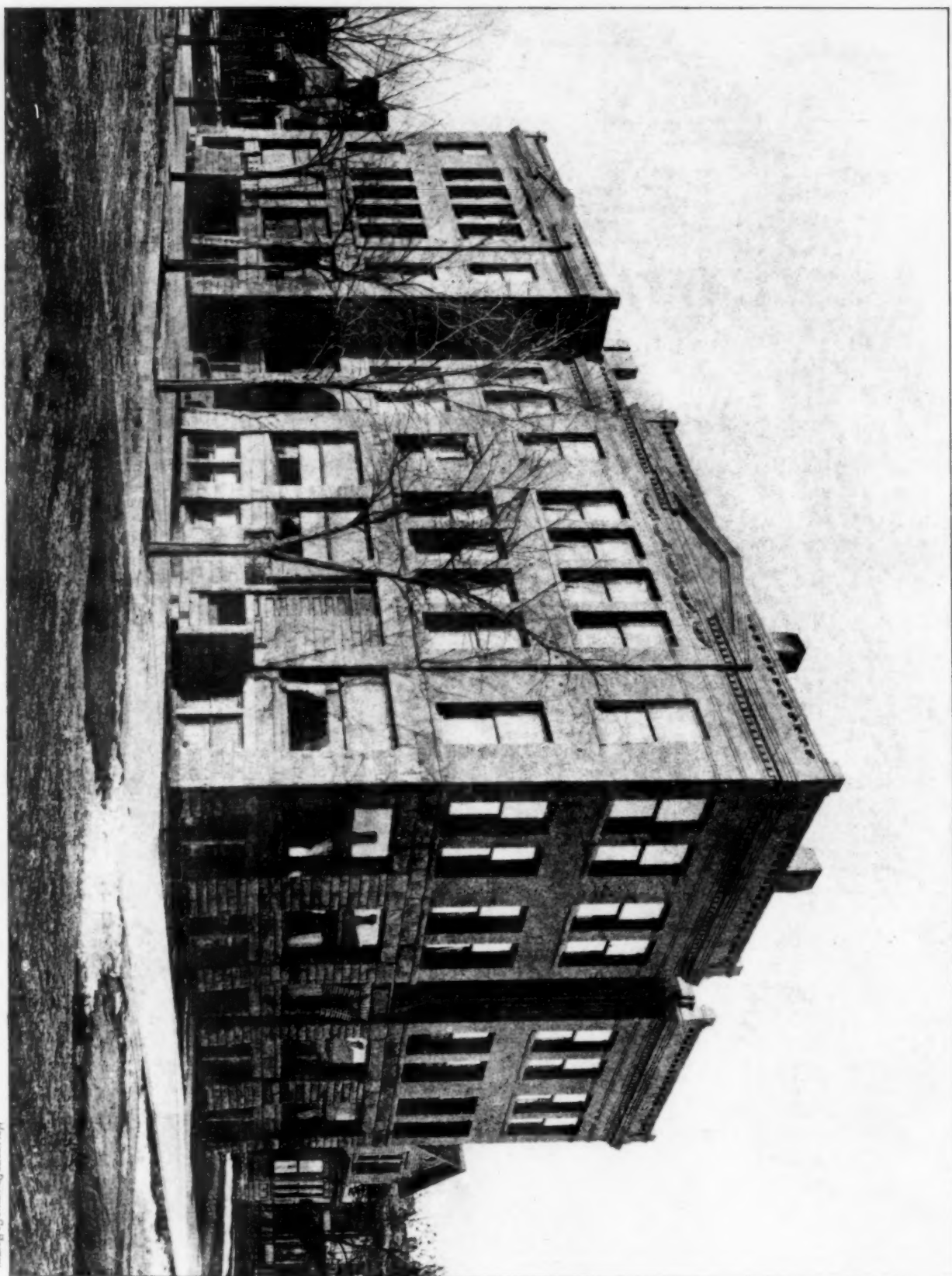
Developments in the labor field during the past week have been unimportant. It is impossible to arrive at any definite conclusion as to the purpose of the great body of the workers. Here and there isolated organizations have passed resolutions to do this and not do that; but there seems to be a lack of cohesion among them; one seems to be waiting upon the other to act. The leaders have resolved to avoid the responsibility of possible failure by granting full liberty of action to all subordinate organizations. This is the way the matter now rests. Employers have shown a remarkable willingness to compromise, and wherever reasonable concessions will avail, work will not be interfered with. Every industry is active. Beginning with the iron trade prices are still declining; but, while this is against the iron and steel makers, it is favorable to buyers and users. The lumbermen have entered upon a season which everything seems to prove will be an active one, with good prices. The coal-miners—except in the anthracite region—are busily employed. The coke-workers have a season's business secured, and at good prices. The hardware manufacturers are working full time, and a considerable percentage of them overtime. The boot and shoe manufacturers have excellent prospects. Manufacturers of electrical equipments and supplies are overworked with work. Makers of engines and boilers report unprecedented activity. The "boomers" of new towns report no difficulty in selling their properties. The builders of locomotive engines are crowded with work, and several establishments are compelled to increase capacity. The ship-builders are all busy; new machinery is being put in old yards, and a number of large new yards are to be established. The car-builders have all the work they can do. Throughout the Ohio Valley, and in several sections of the South, floods have seriously interfered with business, causing delays, but the losses have not been very heavy.

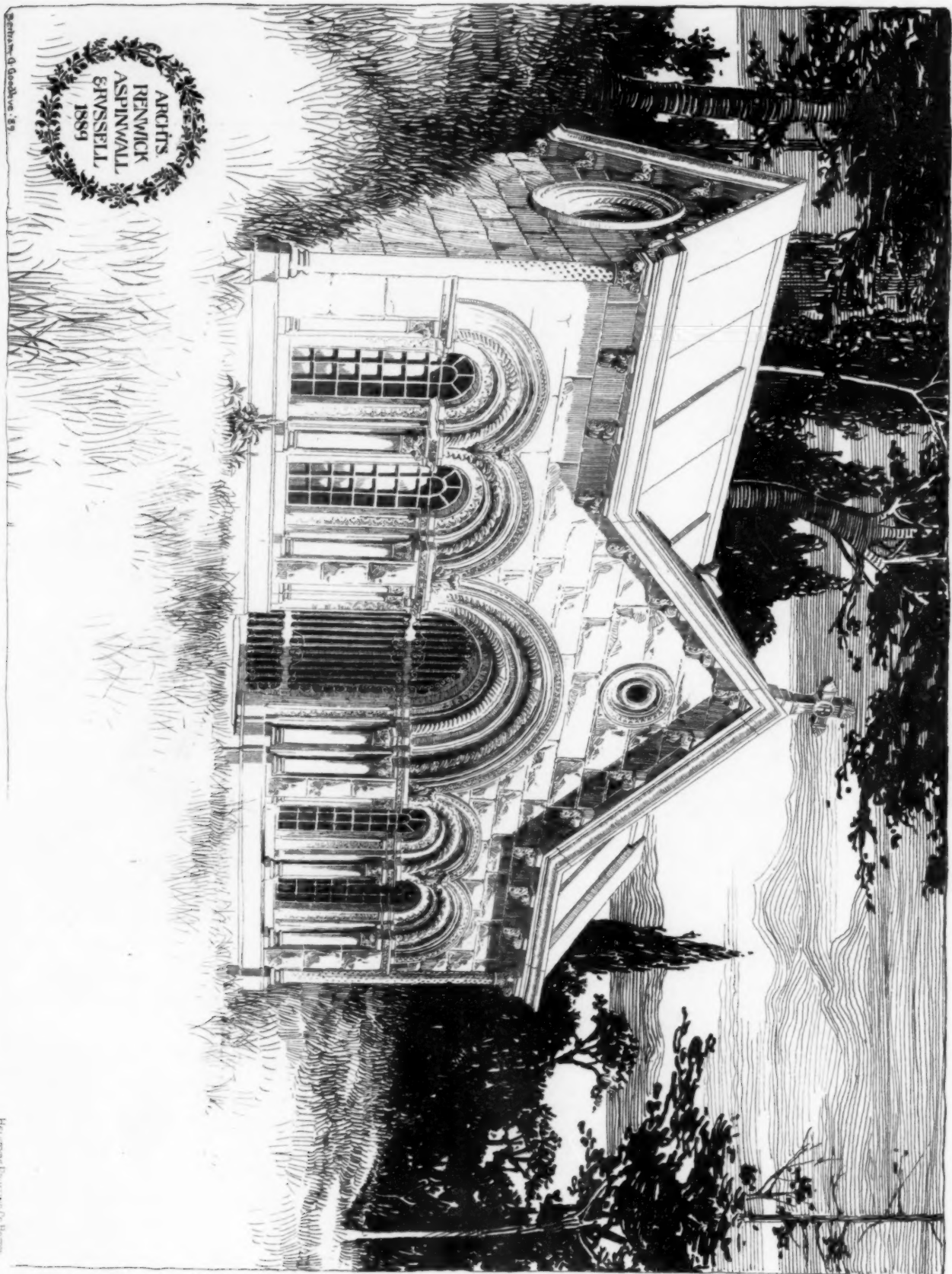
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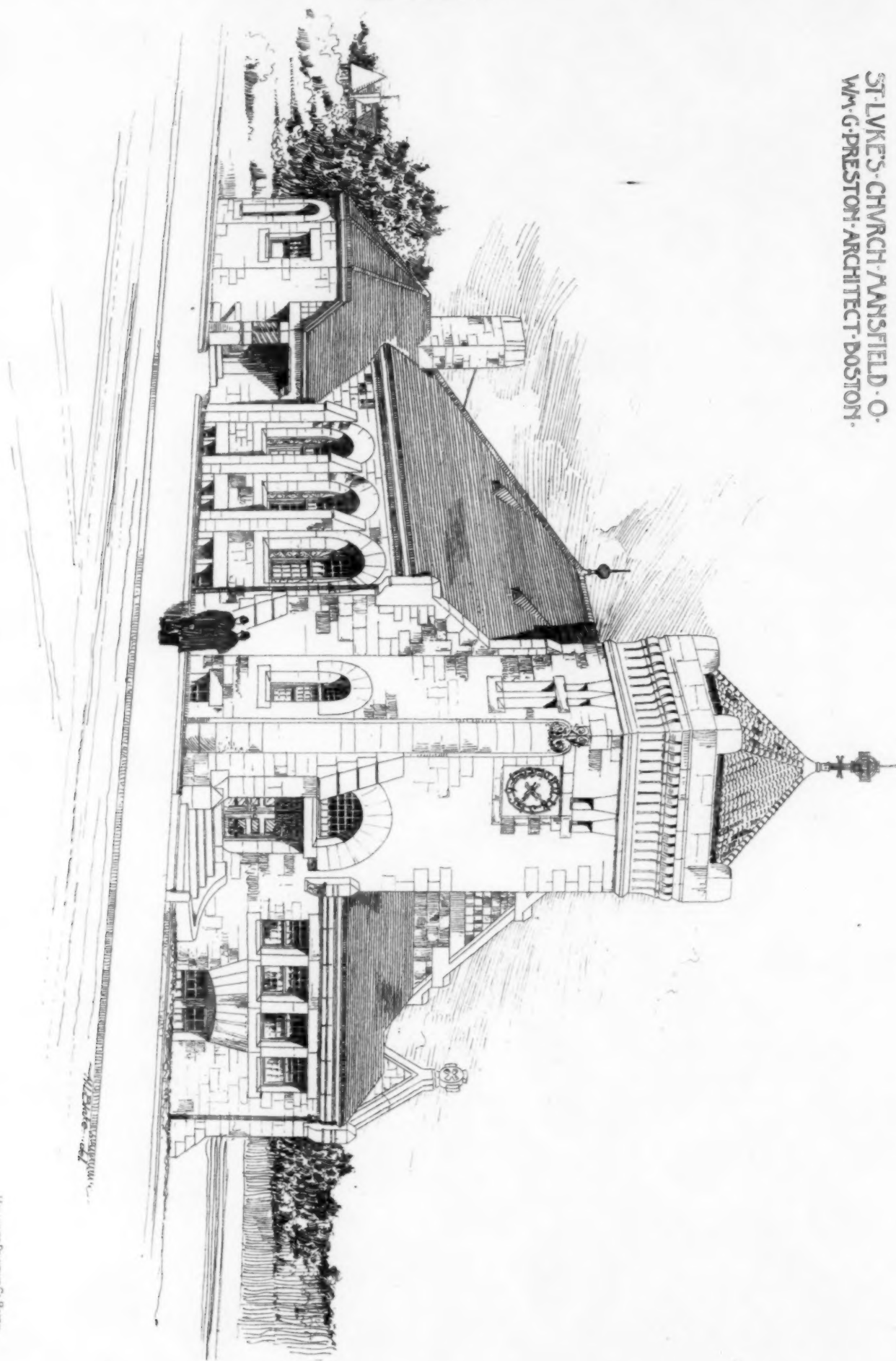
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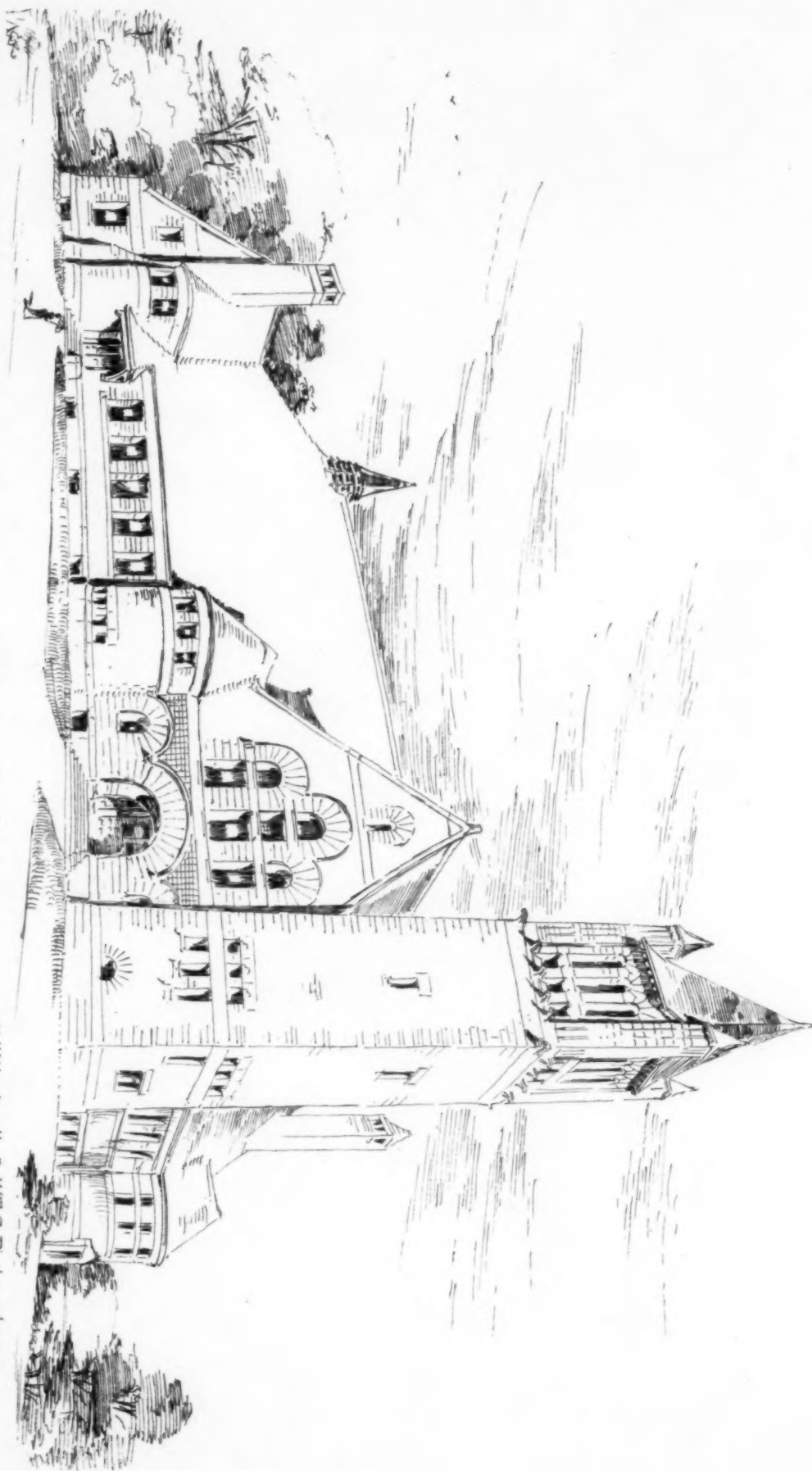
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• Congregational Church ... Wakefield Mass. •

• H. W. Hartwell & Wm. C. Richardson
Architects 68 Devonshire St. Boston. •







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THE AMERICAN ARCHITECT AND BUILDING NEWS

ADVERTISERS' TRADE SUPPLEMENT.

No. 91.

SATURDAY, JANUARY 4, 1890.

VOLUME XXVII.
No. 731.

IMPROVED SKYLIGHT.

In the accompanying illustrations we show the general construction of an improved skylight which is being placed upon the market by G. F. C. Kloeppinger, of Toledo, Ohio. In offering it to the trade the manufacturers call attention to the fact that the skylight is made

sary to complete the length of the bar. It will be observed that the fastener consists of a hook-shaped piece of metal which fits tightly over the upper edge of the lower pane of glass and is bent down in such a way as to form a gutter to carry off the moisture. Each fastener is of a length to fit between two bars, as indicated by L in Figure 1, the

desired. One of the features to which attention is specially directed is the arrangement of perforations directly under the glass, allowing the heated air to escape through the hollow bar and the ridge-piece K, Figure 2. It is also stated that in the construction of this skylight no extra machinery is required, that there is no solder exposed on the outside of the skylight and that all caps are either slid on to the bar, or else put on with bolts, as shown by the ridge-cap. The manufacturer speaks of the growing demand for this form of skylight, many thousand feet having been made in Toledo during the past year with very satisfactory results.

The patent was granted October 8, 1889, to Messrs. Weis & Berndt, of which G. F. C. Kloeppinger, of Toledo, Ohio, has the entire control over the United States.

G. F. C. KLOEPPINGER,
TOLEDO, OHIO.

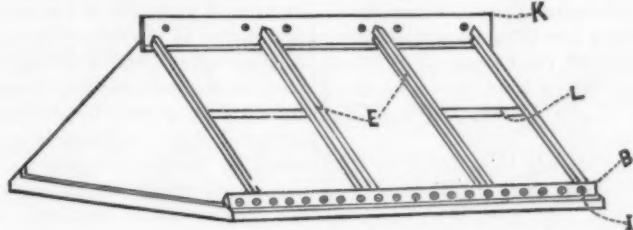


Fig. 1. General View of Skylight.

entirely of metal, that no lapping of the glass is necessary, that broken glass may be easily removed and new panes substituted and that the air circulation is such as to keep the glass dry and free from condensation. Referring to Figure 1 of the cuts, K is the ridge-piece, L the fasteners for the meeting edges of the panes of glass, B is a ventilating-flue and I

ends of the fastener resting upon the upper edges of the chamber H, Figure 4, in such a way that any moisture in the gutter formed beneath the junction of two lights of glass may pass into the gutter G of the skylight-bar and thence to the eaves. The ventilating chamber H, extending the entire length of the skylight bar, is provided with a series of

Fig. 2. View of Skylight Bar in Position.

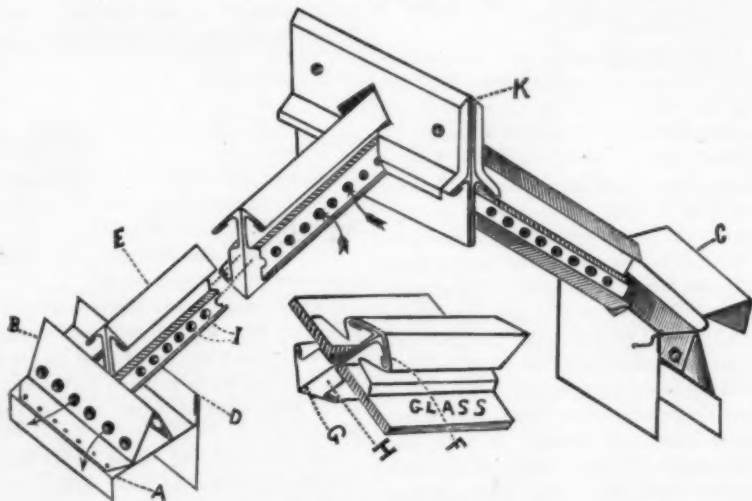


Fig. 4. Section of Skylight Bar.

perforations for the egress of foul air. Figure 2 shows a skylight bar in position, the general arrangement of parts being clearly indicated.



Fig. 3. Method of Joining the Glass.

In Figure 3 is shown the manner of joining the glass when more than one light is neces-

openings for the free circulation of air. The manufacturer claims that the arrangement of the ventilating-flues is such as not only to ventilate the building on which the skylight is used, but also to keep the glass free from moisture, or the water from freezing upon the surface. When the draught through the ventilating-flues is too great it may be checked by means of a damper, shown at C in Figure 2. This consists of a hinged plate so arranged as to open or close the perforations, as may be

A PERFECT GAS-REGULATOR.

It is universally conceded by all who use gas for the purpose of illumination, as well as by those who manufacture and sell gas for such use, that under most conditions there is a great waste in consumption, as well as annoyance from blowing burners, smoking of ceilings, draperies, pictures, etc., and also the poisoning of the air by the escape of unconsumed carbon. Hundreds of inventors have endeavored to solve the problem of perfect combustion, with varying degrees of success, in most cases the results being absolute failures. The pressure of gas cannot be regulated at the gas-works. The superintendents and engineers can only succeed in maintaining a pressure that shall be sufficient for all, without being greatly excessive. Even this condition is difficult of attainment, because of the variation from hour to hour of the consumption, and the irregularity of street service and interior piping. It is freely acknowledged by most gas experts that the best method of control is by means of an automatic gas-regulator for each meter, which will hold the pressure at a given point, whether few or many burners are being used at the same time. But while there have been a few cases of partial success in the invention and construction of such devices, there have been so many scores of failures, that the public has become disgusted and engineers have grown sceptical in regard to their adoption.

We mean to be entirely frank and careful in the assertion that no gas engineer who has thoroughly examined the Rosney Gas Saver and Purifier has failed to give it endorsement in fuller degree than has been accorded to any other "regulator" or "governor." Even

more—no gas engineer has ever taken the pains to examine its construction without being forced to the confession that it did not seem possible that it could be "stuck up" a gas engineer in New England who will say with gas-tar. Still further—you cannot find this of any other gas-regulator he ever saw or heard of. This difference can be made apparent in five minutes to any intelligent man of mechanical sense, and the reason for it is that the valve in the Rossney machine is seated in liquid mercury, and it is impossible to stick iron to mercury with gas-tar, while in every other gas-regulator the hard-metal valve finds a hard-metal seat, and two hard metals can be stuck together with gas-tar so firmly that ordinary gas-pressure will not separate them.

Therefore, the Rossney machine can be adjusted to a lower pressure than any other in special cases where extreme low pressures are needed, and that pressure will be maintained year after year, regardless of temperature or condition of weather. This claim of uniformity and permanency of control cannot be maintained by any of the so-called glycerine machines. Glycerine will grow thick and sluggish in cold weather, and thin and active in warm weather. Its affinity for water is such that it will grow in bulk at one time by absorption, and shrink at another by evaporation,—thus constantly changing the point of pressure, and rendering the machine an "irregulator." Besides, when glycerine in the dome seal of a governor becomes thinned out with water, it is liable to become siphoned out, thus breaking the safety seal, and allowing gas to leak into the cellar, where it is free to cause fire, explosions, and loss of life and property. This process of siphoning occurred in at least five glycerine governors in one day last winter, in Boston. One of these was in one of the large hotels, and another in a large and crowded hospital. Fortunately, however, they were discovered in season to prevent disaster, and the only fire and explosion which occurred on account of these five governors was in a mercantile establishment, where but few people were present. The dome seal—as well as the valve-seat—of the Rossney Gas Saver is of mercury, of such depth that it is constantly able to withstand as much as four times the heaviest pressure to be found in New England.

One of the Rossney Gas-Savers and Purifiers has been in use in the office of the *American Architect*, Boston, for many months, and while the company has no letter from the publishers, endorsing or recommending the machine, and while no permission has been given for a reference, we have no hesitation in referring, without permission, to this magazine,—because we have never been disappointed when we have referred to gentlemen who were educated in the direction of mechanical art—as those who conduct such a paper must be.

The Rossney Gas-Saving Company undertakes to prove its claim to every consumer, on such tests as will satisfy any unprejudiced customer, and even overcome the prejudices of those who have been annoyed—or, as many of them claim, "swindled"—by unsatisfactory machines. Inspection by the most sceptical is invited, and especial welcome is given at the office, No. 4 Liberty Square, to architects, builders, gas-fitters, engineers, and others who have given the subject of gas-consumption special attention.

There is no irregularity or inconstancy in the action of the Rossney machine. It is as perfect and complete in its action as the touch of opposite pages in a new ledger, and

as delicate in operation as the needle of a marine compass.

ROSSNEY GAS-SAVING COMPANY,
4 LIBERTY SQUARE, BOSTON, MASS.

ENLARGEMENT OF THE CHROME STEEL WORKS, BROOKLYN, N. Y.

THE Chrome Steel Works, of Brooklyn, N. Y., manufacturers of the well-known Chrome Steel, are full of business.

Their celebrated five-ply burglar and fire-proof combination plates made of welded Chrome Steel and iron, used extensively in the construction of safes, vaults and jails, as well as the Adamantine battery-shoes and dies, rolls, crusher-plates, cams and tappets made by them and employed in the crushing of ore, have become exceedingly popular during the past few years. This has necessitated frequent enlargement of the works, and additional machinery in order to meet the increased demand for these goods.

We have from time to time noted in these columns, this steady advance, and take pleasure in directing our readers' attention to the fact that the proprietors are again about to further enlarge their works, which will give them still better facilities for meeting the demands of their numerous customers throughout the United States, Canada, Mexico, South and Central America.

The addition now being erected will cover the remainder of the Chrome Steel Works property fronting on Kent Avenue, between Keap and Hooper Streets, and extending back 204 feet.

There have already been added to their plant a new tubular boiler and one horizontal and one vertical engine, all of the most improved type. We are informed that when the addition is fully completed the office will be removed from its present location to the corner of Kent Avenue and Hooper Street. The officers of this progressive concern are Mr. S. H. Kohn, President; C. P. Haughian, Vice-President; and J. G. Dunscomb, Secretary.

CHROME STEEL WORKS,
BROOKLYN, N. Y.

MORE ABOUT THE SASH-PULLEY PATENT WAR.

WE mentioned some time ago the fact that Stephen Palmer, of Lansingburgh, had sued the Empire Portable Forge Company of the same place for the infringement of two of his sash-pulley patents, one of which the Empire Portable Forge Company claims to have a license from Palmer to use. Now we have another phase of this contest to chronicle, for the Forge Company has in turn sued Palmer for the infringement of the old Vetterlein patent, which it owns and which covers a sash-pulley made with rounded sides adapted to fit into a socket produced by a series of connectedly bored auger holes.

This Vetterlein patent which the Forge Company owns was granted in 1876, and broadly considered covers many of the sash-pulleys now made, and as the Forge Company and its experts say, covers the pulleys made by Palmer. The contest promises to be an earnest one. Esek Cowen is counsel for the forge company and Nelson Davenport counsel for Palmer. — *Troy, N. Y., Press.*

THE Whittier Machine Company have recently put into the apartment-house, corner of Beacon and Dartmouth Streets, this city, two passenger-elevators upon the Pressure Tank system, and a complete steam-heating apparatus.

THE SPRECKELS SUGAR REFINERY.

A GENTLEMAN who was recently granted the unusual favor of a tour of inspection through the new sugar refinery of Mr. Claus Spreckels, at Philadelphia, Pa., says: "As far as one conversant with machinery, although having no particular knowledge of the refining of sugar, can state, this establishment seems to be from beginning to end the most carefully-planned and the most perfectly-built works that it is possible to conceive of. It is simply the acme, the perfection of mechanical skill. The impression created on the visitor's mind is one of maximum production with minimum labor. Everything, even to the shovelling of the coal and ashes, is done by steam-power, and only the mind of man is needed to guide and direct these stupendous forces which make the expected product possible. The mass of shafting, mitre wheels and pulleys that one is accustomed to in other sugar-refineries, are here notable by their absence. Even each centrifugal is served by its own respective engine. As each is started, it reminds one of the fussy, sputtering, bustling little steam-tug moving the fat, good-natured merchantman of aldermanic proportions about the harbor. Perhaps the greatest surprises, however, that Messrs. Watson, Müller and Sieghortner have prepared for the visitor, are the many unexpected, and at times almost absurd, locations of the engines. One runs against these at times in the most startling places. Little 5 and 10 horse-power Westinghouse Engines are perched up on brackets in the boiler rooms, for instance, to drive the mechanical stokers, and seem to do their work noiselessly and almost without attention. Engines are literally scattered all over the building, apparently without much regard to foundations; and one engine is mounted up among the timbers in the tower, whose duty it is to operate certain coal-conveying machinery, in a position that compels one to admire the nerve (we feel almost inclined to say the audacity) of the engineers who located it there." The daily papers announce that the first barrel of sugar refined in this magnificent establishment has already been offered for sale in the city of Philadelphia. It is, therefore, fair to presume that the works have been successfully started.

REDWOOD SHINGLES.

THE use of Redwood shingles in California is greatly benefited by staining them with Dexter Bros. English Shingle Stain.

It is the only stain that has been found to keep them from turning black.

It will be well for our Eastern architects to remember this, as the redwood contains a degree of iron which will hasten to turn the shingles black when exposed to the weather. After it is black it never can be stained lighter.

The advantage of using this stain in southern California or other warm climates is that unlike paint there is no skin surface to peel off.

Paint will not last over a year in these climates whereas the stain will last years.

The dry atmosphere of Colorado has no effect upon it, and dipping of the shingle before the shingle is placed on the house prevents its curling. So the advantage of these stains is wonderful and they deserve the merit they have thus won.

DEXTER BROS.
57 BROAD STREET, BOSTON.

Philadelphia.
New York.**MERCHANT & CO.**Chicago.
London.

IMPORTERS OF THE

"Merchant's Roofing,"**"Camaret,"****"Gilbertson's Old Method,"****Guaranteed Roofing Plates.****Every Sheet Stamped with Brand****and Thickness. Every Box****Guaranteed and Marked****with Net Weight. No****Waster Sheets****Imported.****Perfect Security to Architect,****Property Owner and Roofer.****Write to us for a Copy of our****Book on****"A TIN ROOF."****List of Buildings in the construction
of which F. O. NORTON'S
Cement was used.**

Central Trust Co. Equitable Building. Liverpool, London & Globe Mutual Life Building. Morse Building. Post Building.	Telephone Building. Temple Court Building. Times Building. Trinity Building. United Bank Building. Washington Building.
---	--

and others.

**List of Buildings in the construction
of which F. O. NORTON'S
Cement is being used.**

Broadway Hotel. Farmers Loan and Trust Co. Judge Building.	Mechanic's Bank. St. Dennis Hotel. Union Trust Co. Wilks Building.
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F. O. NORTON,

92 Broadway, NEW YORK.

NOTES.

THE Westinghouse Machine Co. reported that "high-water mark" had been reached in that Company's business during the month of October, 1889, the sales being the largest in the Company's history up to that time, and amounting in the aggregate, including Junior, Standard Westinghouse and Compound Engines, to 6,035 horse-power. The month of November, 1889, however, shows even better results, with the following:

34 Junior Engines,	940 Horse-power.
31 Standard Engines,	940 "
39 Compound Engines,	5,300 "

104 Engines, aggregating 7,180 Horse-power.

The sales of both months are in excess of the Company's producing capacity, notwithstanding the heavy additions recently made to their machinery, and the putting on of a night force.

**IN WHAT DOES THE VALUE OF A
ROOFING PLATE CONSIST?**

WHEN two brands of Roofing Plates are selling side by side in the market, one bringing a much higher price than the other, what is it that enables the former to find sale?

It is because it is superior, will last longer, and wear better, and give better satisfaction.

The firm dealing in such goods is obliged to charge more for them because they cost more to make; but while the superior article cost a little more in the first place than the inferior, it will in the end be found much less expensive.

This explains our position in regard to our Guaranteed Brands of Roofing Plates better than anything else we can say, and in fewer words.

It is not easy for one to buy the best of any desired article, even when the best is wanted, as misrepresentations (made by those fearing honest and equal competition) have a natural tendency to deteriorate quality, unless met by just as powerful a determination to adhere to the standard which the house has adopted.

Those who desire the best Roofing Plates have it in their power to purchase them, and at a cost so little greater than that of the inferior grades, that it would lead one to suppose the reputation of the first-class article was being traded upon by others offering the ordinary goods at a trifle below the price at which the best can be sold, in hopes of attracting buyers who have not given the subject much thought.

We not only give the purchaser the best Roofing Plates, but we protect him—

FIRST, by giving our Guarantee.

SECOND, by stamping each sheet with Brand and Thickness.

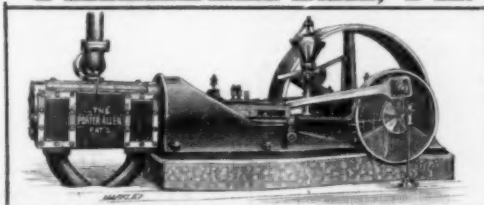
THIRD, by excluding wasters.

FOURTH, by branding the net weight of the 112 sheets on the box, to satisfy the customer (in this age of light-weight plates) that he is getting what he ordered.

For the benefit of those wanting the very best roofing plates, we assert and are prepared to prove, that there are no other brands of roofing tin being offered in the market to-day, by any firm, under the four different guarantees given above by this house, and we challenge a public contradiction of this statement.

**Southwark Foundry and Machine Company,
PHILADELPHIA, PA.**

**BOILERS.
TANKS.
STEAM
HAMMERS.
HEAVY
CASTINGS.**



**BLOWING AND
REVERSING
ENGINES.
CENTRIFUGAL
PUMPS.
STEAM PUMPS.**

SOLE MAKERS OF

Porter-Allen Automatic Engine.
HIGH ECONOMY. DURABILITY. CLOSE REGULATION.

BEST ENGLISH**B.S. & CO. PORTLAND
CEMENT.**

Works: Grays, Essex, England.

BROOKS, SHOOBRIDGE & CO., 7 Bowling Green, N. Y.**"K. B. & S." PORTLAND
CEMENT.**

The "OLD RELIABLE" brand of Knight, Bevan & Sturge, (K.B. & S.) OF LONDON, ENGLAND.

The best known of all Portland Cements, universally popular and guaranteed to give perfect satisfaction for any purpose requiring Portland Cement.

**SINCLAIR & BABSON, Sole Agents in the United States,
16 & 18 Exchange Place, New York.**

Something New for the Stable.

Read's Patent Harness Bracket.



An Article long wanted but never before made.

Holds the whole harness, takes no more room than the ordinary hook or peg, can be used for both single and double harness. Gives the harness-cases a neat appearance, as it carries the harness up uniformly in width with the saddle, beside keeping the bridle and breastplate in their proper shape. They are neatly japanned, with gilt facings. Price \$18 per dozen. Are now in use in over 100 first-class private stables in and about Boston.

Each bracket lettered "J. J. Read, Boston, Mass." For sale by dealers everywhere.

Indorsed and approved by the following named gentlemen, all of whom have them in use:

Boston: R. H. White, J. Montgomery Sears, J. T. Morse, Jr., Thos. Motley. South Boston: Benjamin Dean, Cambridge: F. A. Kennedy, John Bartlett, Chas. H. Goss. Portsmouth, N. H.: Hon. Frank Jones. Milton: Col. H. S. Russell, J. Malcolm Forbes. Dedham: A. W. Nickerson. Baltimore, Md.: J. D. Mallory. Newton: J. C. Potter, C. E. Billings, A. R. Mitchell. Waltham: J. H. Ellison. Readville: C. G. White. Beverly: Dr. Chas. Haddock. Swampscott: C. P. Curtis. Boston, Mass.: Waldo Adams, with the Adams Express Co. Philadelphia, Pa.: Edward N. Williams, of the Baldwin Locomotive Works.

The public are cautioned against all similar brackets, not marked with my stamp, as such brackets are infringements of patents held by me.

Also cedar-top riding-saddle bracket. Price \$3.50 each. And whip-rack for English coach and straight whip combined. Price 50 cents each.

JAMES J. READ, 13 Tremont Row, Room 10.

DRAUGHTSMEN'S SENSITIVE PAPER

FOR COPYING DRAWINGS &C. IN WHITE LINES ON BLUE GROUND BY LIGHT AN EXCEEDINGLY CHEAP & SIMPLE METHOD

AMATEUR PHOTOGRAPHIC OUTFITS

SEND FOR THOS H MC COLLIN 635 ARCH ST PHILADELPHIA PA. PRICE LIST

PUBLICATION OFFICE OF THE
New England and the South.

ADVERTISERS

to reach the progressive people of the Southern States should use the

"New England and the South,"

An Illust'd Monthly.

Each number containing from 50 to 100 engravings. It is also an excellent medium if you would reach the Architects, Builders, Manufacturers, and Capitalists of the North.

Hotel-keepers and nurserymen will find it to be of great value.

J. W. Manning of the Reading Nurseries says: "The best advertising medium in New England."

The Boston Daily Journal says: "An Illustrated Monthly of sufficient merit to cause it to be preserved."



257 WASHINGTON STREET,
BOSTON.

GEO. H. CHAPIN, Publisher.

Subscription Price \$3.00 a year. Sample copies, post, free.

Special Bargains in the Famous Piedmont Region of the South.

Cesar's Head Hotel (less than a day's buggy ride from Mr. Vanderbilt's Extensive Purchase at Asheville, N. C.) with park of 2233 acres. Price \$35,000, \$5,000 cash, balance in annual payments.

One Million Acres Timber Land in North and South Carolina from 75 cents to \$1.00 an acre. Vineyards, Plantations and large unimproved tracts of land for Colonies.

Southern Village, comprising Cotton Mill 160 x 60, 3 stories, capacity 5000 spindles; warehouse, store, cotton gin, flouring, grist and saw mills, president's and superintendent's residences, 35 houses, 3 stables, and 288 acres land, now doing profitable business. Price \$25,000, \$5,000 cash, balance in annual payments.

A Palatial Southern Home. In famous Nacoochee Valley, fine house and out-buildings upon which more than \$75,000 has been expended, 2,500 acres, adjoining a gold mine with capitalization of \$2,000,000, the same vein extends through this estate. Price \$28,000, including blooded stock, machinery, etc. Apply to Capt. J. H. Nichols, Nacoochee, Ga. or to Geo. H. Chapin.

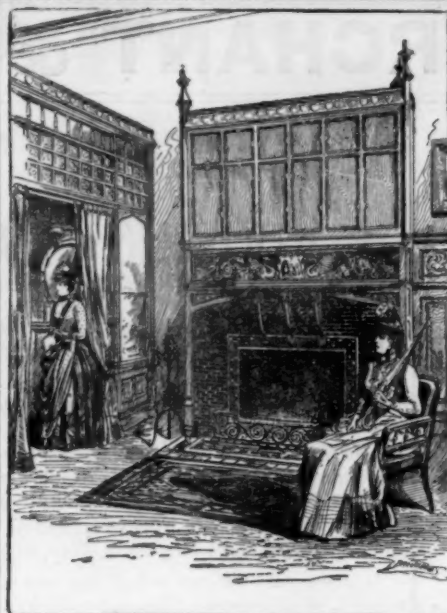
"Grand View Hotel" with 3,000 acres at Tallulah Falls, the "Niagara of the South," valuable gold deposits, over a mile of water-power, one of the best localities for an industrial town in the South. Price \$65,000, easy terms. Apply to W. D. Young, Tallulah Falls, Ga., or to Geo. H. Chapin.

Furniture, Foundry, Sash and Blind Establishments in live Southern City.

A Street Railway in prosperous city that has doubled its population during last 5 years. Price \$10,000. Will sell whole, half or quarter interest.

Illustrated descriptions mailed postpaid on application to GEORGE H. CHAPIN,

257 Washington St., Boston; 36 Pine St., New York; 5 and 6 Palace Chambers Bridge St., Westminster, S. W. London; 45 Main St., Greenville, S. C.



A. C. BARTLETT, President. A. S. HOPKINS, Vice-Pres. and Gen. Mgr.
J. G. SANBORN, Sec'y and Treas.

THE HENRY DIBBLEE CO.,

Fireplace Furnishings,

MANTELS,

GRATES and TILE

Fine Brass and Onyx Goods,

266 & 268 Wabash Ave.,

CHICAGO.

We invite inspection and correspondence. We claim to have the best designs and the most complete stock to select from in the United States. We make a specialty of fine ordered work from designs, which are kept exclusive, in

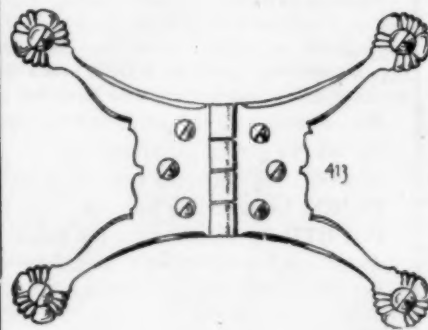
MANTELS, SIDEBOARDS,

DINING-ROOM SETS,

HALL SEATS, ETC., ETC.

Send six cents in stamps for our illustrated Fireplaces.

When you write, mention this paper.



Antique HINGE PLATES

IN STOCK

AND MADE TO ORDER.

J. B. Shannon & Sons,

1020 Market Street, PHILADELPHIA.

BURDITT & WILLIAMS,

ESTABLISHED 1860.

Manufacturers and Dealers in

FINE HARDWARE

FOR
Dwelling-Houses, Churches,
Stores and Public Buildings.

Every Excellence of Mechanism. Latest and most approved Styles and Finish.

Special New Designs of Knobs in Cut-Glass. Patterns made to order from Architect's Design & Estimates made. Contracts filled in all Markets.

20 DOCK SQUARE, BOSTON. BRANCH OFFICES. { 1300 Broadway, New York.
1416 F St., Washington, D. C.

Our Hardware may be found in important buildings in the leading cities of the Country.

Wigger's Patent Sash Lifters.



A SIMPLE CONTRIVANCE DESIGNED TO FACILITATE THE RAISING AND LOWERING OF

ONE-LIGHT SASHES.

A strip of concave-convex metal, with projecting knobs, fitting over the bead on the stile.

Readily applied to either new or old work. Furnished in different styles—brass, nickel-plated, white, japanned, etc.—to correspond with painting or other metal trimmings.

Architects, Builders, Carpenters and Painters will be furnished with Circulars by the Hardware trade.

BRAINERD & CO.,

Manufacturers' Agents,

97 CHAMBERS STREET, NEW YORK.

THE AMERICAN ARCHITECT AND BUILDING NEWS

ADVERTISERS' TRADE SUPPLEMENT.

No. 92.

SATURDAY, FEBRUARY 1, 1890.

VOLUME XXVII.
No. 736.

ILLUSTRATIONS:

PAPIER-MACHE ORNAMENTS BY J. N. LOMBARD, 58 BOWDOIN STREET, BOSTON, MASS.

STAINED-GLASS WINDOWS FOR ST. PAUL'S CATHEDRAL [R. W. GIBSON, ARCHITECT] BUFFALO, N. Y., MADE BY MESSRS. J. & R. LAMB, 59 CARMINE STREET, NEW YORK, N. Y.

the sections are connected the flanges dovetail together and form a diamond-shaped flue with an area of six square inches. This improved method of construction compels the fresh air admitted at the base of radiator, to come in contact with the heating-surface over its entire length, and consequently the fresh air is brought into the room at an exceptionally high temperature. The end view discloses a damper door at either end of base, so that if

Each section contains $4\frac{1}{2}$ square feet of surface, and occupies $2\frac{1}{2}$ inches. Width of loops, $7\frac{1}{4}$ inches; width across bottom, $9\frac{1}{4}$ inches; height, 38 inches.

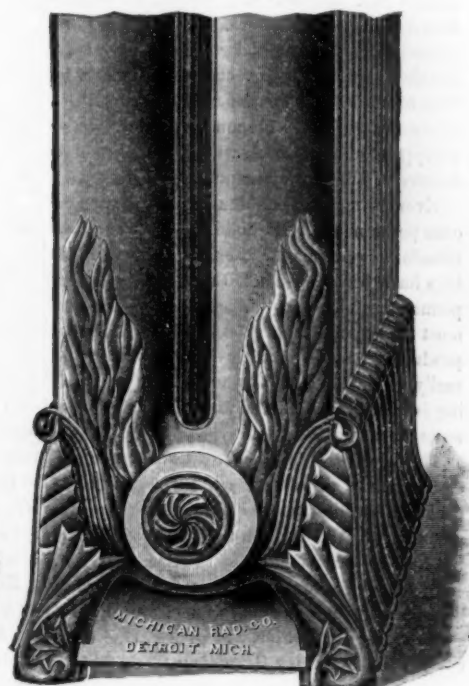
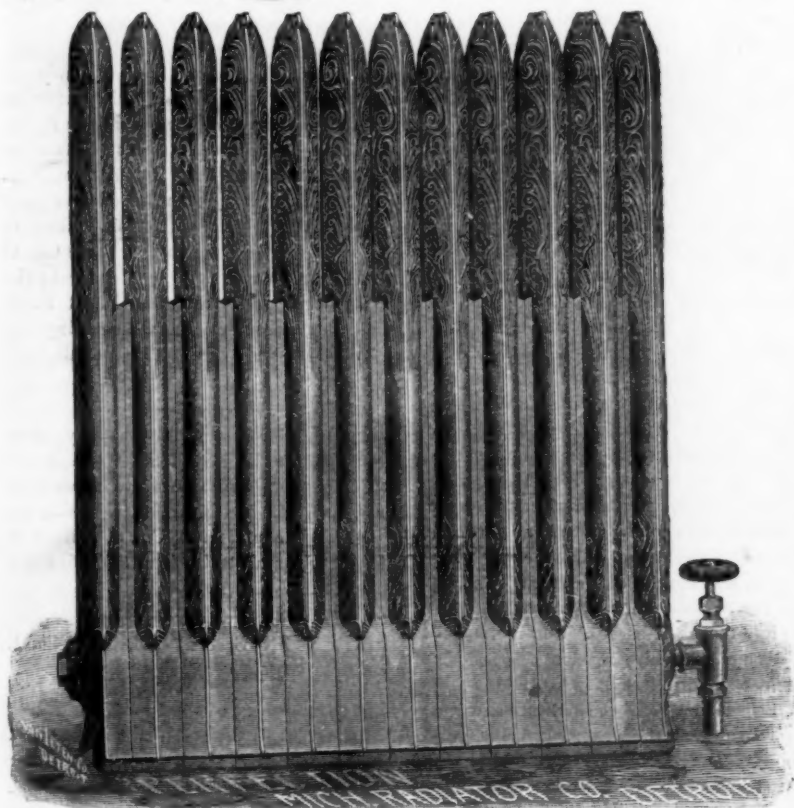
MICHIGAN RADIATOR CO.,
DETROIT, MICH.

RANDOLPH & CLOWES.

It was just four years ago on Wednesday, January 1, 1886, that the machinery of Brown & Brothers big rolling-mill and tube-works stopped. Great was the mourning in Waterbury in consequence, for hundreds of workmen were thrown out of employment and an important industry had ceased.

There was in the employ of the concern as office manager a young man with a dash of gray in his hair, named G. H. Clowes. He conceived the idea that the business of the defunct concern could be resurrected. He secured the co-operation of E. F. Randolph, a wealthy citizen of New York, and soon, under the firm name of Randolph & Clowes, the tube

PERFECTION RADIATORS.



"PERFECTION" DIRECT-INDIRECT.

The front view shows the bottom of the loops so incased as to form a box, into which the cold air can be conducted from the outside of the house and the room heated by the Direct-Indirect method which secures Perfect Ventilation. Each section or loop of the radiator is cast with its part of base and flue, and when

desired when the cold air supply is shut off, by means of register in outside duct, the Radiator can be converted into the ordinary direct type by opening both damper doors, thus taking the air from the room instead of from the outside.

The damper doors also make it possible to easily clean the base of any accumulation of dust and dirt.

and boiler department of Brown & Brothers works was opened for business. Mr. Clowes was the resident partner and the directing spirit, and under his management the business quickly grew to paying dimensions, and thereafter continued to expand.

Within a year Messrs. Randolph & Clowes further manifested their faith in themselves and their "eye for business" by buying the

remainder of the Brown & Brothers estate which included a huge rolling-mill and other buildings suitable for the manufacture of sheet copper and brass. Bringing to their aid the practical experience of Mark S. Chipman, whom they made general superintendent, they proceeded to thoroughly reconstruct their mill property; as the result, in their works on Bank Street near the Naugatuck depot, they have one of the finest pieces of property of the kind in the country. Not only this, but with the machinery now being placed in the buildings they have a plant for the rolling of copper and of brass, and for the making of tubing, second to none in the United States in respect to quality and to capacity per man.

Two magnificent Corliss engines, made by the Watts-Campbell company of Newark, N. J., have been placed in the works, one of 400 horse-power for running the copper mill, and one of 600 horse-power for running the brass mill. The latter will not be ready for running for a month, but the former was started on Wednesday, with most gratifying results. Steam was gotten up, and at precisely 3 P. M. Mr. Clowes opened the throttle and the big engine began to move, slowly at first, then with constant acceleration until the desired speed was attained. Connected with the engine were a train of copper-rolls, and Master Mechanic Ferdinand Deming, as he watched them move, expressed great delight, saying that in every respect they fulfilled his highest expectations. General Superintendent Chipman was, of course, on hand, and his face reflected the glow of enthusiasm which lit up the countenance of Mr. Clowes. The engine was in charge of James Douglas, one of Waterbury's oldest and most experienced engineers, who with his corps of assistants, watched the big machine with all the solicitude of a mother teaching the latest arrival how to walk.

The floor space in Messrs. Randolph & Clowes mammoth works covers about 200,000 square feet. The works, as stated, are divided into four departments, viz., tubing, copper and brass mills and house-boiler factory. Brown & Brothers rolled copper, but in a small way. The new mill will be the only copper mill in Waterbury. There is soon to be put in also a copper-rod mill which will be another new feature of Waterbury manufacturing.

Everything has been done by the firm to secure permanence. Old buildings have had new foundations put under them, while new buildings have been constructed with a view to supplementing old ones. The machinery is the most modern and approved in all respects, and products of corresponding quality must necessarily be turned out. A fine brick office-building is nearing completion and will be an ornament to the city.

The Messrs. Randolph & Clowes are to be congratulated upon their enterprise, and General Superintendent Chipman upon the substantial manner in which he has accomplished the task assigned to him by the firm.

By the way, the engine started yesterday has been named the "Florence," after Mr. Clowes little daughter, Florence Guernsey Clowes. — *Waterbury Republican*.

REMOVAL.

PHILADELPHIA, PA., January 1, 1890.

Having removed to our new factory building, Nos. 1225, 1227, 1229 Callowhill Street, thereby enlarging and increasing our facilities for the manufacture of Thorn's Patent Metallic Roofing Tiles and Shingles, Patent Hip-Rolls, Ridging, Eaves-Troughs, Conductor-

Pipes, Stamped Sheet-Metal Work, etc., we are prepared to fill all orders with promptness.
THORN SHINGLE & ORNAMENT CO.
PHILADELPHIA, PA.

CALENDARS.

THE fashion of using calendars as an advertising medium seems to be on the wane, judging by the number that have reached us this year.

Very few of our own advertisers seem to have made use of the device this year, possibly preferring to spend their money on what the proprietors of newspapers and journals are pleased to consider more "legitimate" mediums. We are inclined to feel that they are right. These calendars must cost a good deal of money; that is, if they undertake to cover anything like the field that is covered by a fairly good class-journal, and if the same amount of money should be spent in legitimate advertising in a regular medium, the advertiser would probably be surprised at the display that could be made with such a sum and the consequent returns that would come from it.

But no: advertisers prefer to follow their own notions of what is the best course for them to pursue, and though manufacturers will spend one thousand dollars on a calendar which has to contend with a dozen or a hundred similar calendars which a given individual may receive, they would feel themselves fit subjects for a lunatic asylum if they should dream of paying the same amount of money to a single journal and be content to do no other advertising during the year. No, if they are willing to spend one thousand dollars on advertising they prefer to parcel it out amongst the greatest possible number of mediums, the result of which is that their advertisements are small when they might be large and impressive. The money is spent to be sure and the advertising is done, but it is questionable if it has been spent in the most judicious way.

In the daily papers, size is often of paramount importance, and though it is of not so much importance in magazines and journals, it is obvious that a larger card is more likely to draw attention than a small one, if the display and artistic quality of each card are of the same standard of excellence.

We have every reason to believe that if a manufacturer, after obtaining an estimate of the cost of the edition of the calendar he proposes to issue, would then abandon his project, and would spend the same sum on advertising in any good journal which presumably reaches the same class that he means to send his calendar to, he would find the step a very remunerative one. Take a case in point. There lies before him an assortment of calendars which the writer has received in his capacity of architect. One, or at most two of them will be kept and the rest will go into the waste-basket. Can the money spent upon those which receive this ignoble treatment be held to be wisely expended?

But if the money had been put into as large an advertisement in the writer's favorite journal as this money could procure, he would have impressed upon him every Saturday or the first of every month, the fact of the advertiser's existence, would learn to know in what goods he dealt in, and best of all would become familiar with his name and address. Then when the constantly recurring question comes he would not have to stop and ask himself, "Didn't I throw away last January a calendar that said something about this thing that I want?" In place of this the question would be unconsciously answered as soon as asked.

Some manufacturers try to overcome this difficulty by giving their calendars a permanent value.

Here is one sent out by S. Bowen's Sons of Philadelphia, to advertise their mortar colors. It has an iron frame and so may escape the waste-basket, for though paper-pulp is made of many things, iron has not yet been reduced to a state of cold fluidity.

Others seek to make them of continuous value by making the calendar-pads cover two or more years or by using a calendar that can be adjusted to suit any year.

Others seek beauty before all, as Mr. A. J. Bicknell, the advertising-agent, who adorns his with a helio-chrome print of Trinity Church.

Others employ bright and harmonious coloring, as do Messrs. Merchant & Co. of Philadelphia, metal-merchants, who send out a calendar so brilliant of color that its harmonious effect is a surprise till one notes in the corner the name of Marcus Ward & Co., as the printers. That explains all.

Some seek an artistic treatment only, as does the Smith & Anthony Stove Co., who this year abandon the admirable sketchy leaflets they have used for several years, but in place of them send out a larger card—the work of the same artistic hand—with the smallest apology for a calendar-pad attached.

Others combine oddity with artistic ingenuity as do John H. Pray, Sons & Co., while others successfully combine the advertising of their goods with the production of an artistic calendar. The most successful example of this kind is the calendar of the Jackson Architectural Iron Works of New York, who send out a dozen heliotype prints of specimens of their handiwork each one of which bears a novel monthly calendar.

Others, again, who are seemingly losing faith in the institution, spend their money on strictly utilitarian calendars which have no very great chance of preservation if the recipient of one of them chances to have received one of the calendars already mentioned. Such calendars have been issued this year by Messrs. Berry Bros., of Detroit, makers of hard oil-finish; the Abram Cox Stove Co., of Philadelphia, manufacturers of furnaces; the Thorn Shingle and Ornament Co., of Philadelphia, manufacturers of metallic roofing-tiles and W. H. Wetherbee & Co., of Boston, lumber-dealers.

THE Whittier Machine Company have constructed for the Providence Cable Tramway Company, of Providence, R. I., two steel boilers, each six feet in diameter. Also for the Clifton Manufacturing Co., of Clifton, S. C., four horizontal steel boilers, each five feet in diameter.

IMPROVEMENTS IN DRIVING LARGE PERFECTING-PRESSES.

MANAGER JONES, of the New York Times, and Messrs. M. R. Muckle, Jr. & Co., of No. 608 Chestnut Street, Philadelphia (the latter conducting their experiments in the press-rooms of the *Public Ledger*), have made some improvements in the driving of large, fast printing-presses that are of great interest to newspaper publishers everywhere. All such presses are now fed from the web, and to secure impressions which will be clear, distinct and black, the roll or web of paper must first be thoroughly dampened with water. This process, of course, weakens the paper greatly, so that it tears easily. If too damp, the paper

Architects' Tubes

Consist of two Tubes with Capped Ends which fit snugly together, preserving Plans, Drawings, etc. from dust, and ready for convenient reference.
Also Mailing Tubes of all description and sizes.

THE UNEXCELLED PAPER TUBE CO.,

29 Rose Street, New York.

almost falls apart by its own weight. It is a familiar sight in any press-room, when the printing is commenced, to see the machinery clogged with torn paper over and over and over again, necessitating many stoppages. It is also quite common to see the end of the room piled knee deep with torn sheets. A newspaper press does not need to run many hours in the twenty-four; but when it once starts, the quicker it can hurl off the edition the better. This is the great desideratum. Indeed, it is of almost vital importance. In any well-managed office, the forms are held open for important news until the last possible moment. The forms once locked, everything, from that instant, moves with a whirl and a rush. To the novice, it seems as though pandemonium were let loose and that the safety of this broad land hung on that one issue of that one journal. Peace is not restored, and the omnipresent printing-office cigar-stump resumed, until the clatter and the roar on the street below announces that the paper is out and the nation once more saved. Aside from the money value of the paper lost, in these frequent stoppages, before the press gets under way, the delay may easily, and frequently does, result in a failure to catch trains with packages of papers, to the utter disgust of subscribers and necessarily to the injury of the publisher.

The speed at which a large press may run is, therefore, largely dependent on what the web will stand in starting. The recent improvements referred to consist in the use of small Westinghouse Engines. Instead of driving all the machinery in the publishing house by one engine, the improvements consist in attaching a separate Westinghouse engine to the jack-shaft of each press. Thus each press is operated entirely independent of any other press in the room, and of any other machinery, as for instance, that used in stereotyping. When it is desired that the press shall start on an edition, the engine is started. They go off very slowly together, thus starting the heavy web of paper revolving without shock and without tearing. The speed is increased as the work progresses, evenly and regularly, until a rate is reached in this way that is utterly impossible in any other. No loss of paper results, no delays occur and no trains are missed. The capacity or speed of the press is, in effect, increased from twenty to twenty-five per centum and a corresponding saving of time is effected. In some offices the forms are held open longer, thus catching later news, and incidentally the same trains as before. Already a number of the most prominent newspaper offices in the country have provided themselves with Westinghouse engines arranged in this way.

THE Whittier Machine Company have recently put into the building occupied by Messrs. S. S. Sleeper & Co., No. 11 & 12 South Market Street, this city, a freight elevator operated by one of their No. 3 Belt Hoisting-Machines in connection with an electric motor.

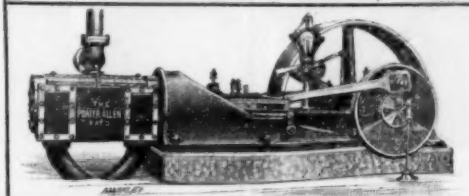
AMERICAN ENGINES IN ENGLAND.

THE Metropolitan Electric Light Co. operates a number of large central stations in

Southwark Foundry and Machine Company,

PHILADELPHIA, PA.

BOILERS.
TANKS.
STEAM
HAMMERS.
HEAVY
CASTINGS.



BLOWING AND
REVERSING
ENGINES.
CENTRIFUGAL
PUMPS.
STEAM PUMPS.

SOLE MAKERS OF

Porter-Allen Automatic Engine.
HIGH ECONOMY. DURABILITY. CLOSE REGULATION.



AMES MFG. CO., Bronze Founders

CHICOPEE, MASS.

Bronze Statuary of all Sizes. Estimates Promptly Furnished.

BOSTON OFFICE: 33 PEMBERTON SQ.

the City of London. One was recently equipped with an outfit of

4—14 & 24 x 14, Westinghouse Compound Engines.
2—10 & 18 x 10, " " "
1—12 & 20 x 12, " " "

Another station operated in the same city by the same company is equipped with single-acting engines of English make. Quite a good natured rivalry exists, of course, between the men who are in charge of these stations. Recently, the American engines were put through their paces by British experts, on behalf of the Metropolitan Company, in a test lasting twelve hours without intermission. It was amusing to see the interest taken in this test by the American colony in London, many members of which spent the greater part of the day in the station. Even our respected Minister Plenipotentiary and Envoy Extraordinary, Mr. Lincoln, was on hand to see the American Eagle properly comforted and encouraged in its hour of trial. Being called away on important business, he returned at a later hour, in order to make sure that American interests and American dignity were being properly upheld. The engines in question are running regularly under a very heavy service, and the experts subjected them to many severe tests during the day; but they behaved so splendidly in all respects that the Englishmen were agreeably surprised. Some of the Americans who took such a lively interest in this test really know very little about steam engineering, but they were wildly enthusiastic at the way in which these engines upheld America's reputation for good machinery in London. Already orders have been sent to The Westinghouse Machine Company at Pittsburgh for

1—18 & 30 x 18, Westinghouse Compound Engine.
1—14 & 24 x 14, " " "
1—10 & 18 x 10, " " "
1—9 & 15 x 9, " " "

for the same London station, so that it is fair to assume that this type of Engine is giving satisfaction in the "tight little Isle." There are also vague rumors afloat, that the other London station of the Metropolitan Company, which is now equipped with English engines, will soon be supplied with Westinghouse Compound Engines from Pittsburgh.

NOTES.

THE Whittier Machine Company have recently put into the building of Frederick L. Ames, corner of Lincoln and Essex Streets, this city, the elevator system, consisting of one passenger and eight freight elevators upon the pressure-tank system, together with a complete steam-heating and ventilating apparatus.

THE Joseph Dixon Crucible Co., Jersey City, N. J., closes 1889 with satisfaction. Our business has been larger in every branch than in 1888. Our chief new departure in 1889 has been in the large increase of equipment at our Graphite Mines at Ticonderoga. We have laid the lines there for a five-years' continuous run—tearing down and rebuilding almost everything much larger than before.

The specially large increase in the sales of Graphite Paint, Graphite Grease, Graphite Oils and other Graphite lubricants, has pushed us to this. The sales of our standard and well-known Dixon Stove-Polish, Dixon Crucibles, and Dixon "American Graphite" Pencils have also largely increased.

Our plant now includes five steam-engines with a total of 375 horse-power; nine steam boilers of 600 horse-power together, and the use of 150 horse-power water-power.

We employ 550 persons and our pay-roll averages \$4,500 per week. We have direct connections with the telegraph companies and the Long Distance Telephone Co.

So far as we can see the prospect for 1890 is bright.

JOHN A. WALKER,
SECY AND GENERAL MANAGER.

THE Whittier Machine Company have recently put into the Columbia Hospital at Washington, D. C., an hydraulic passenger-elevator operated by their pressure-tank system, together with a complete steam-heating apparatus.

Something New for the Stable.

Read's Patent Harness Bracket.



An Article long wanted but never before made.

Holds the whole harness, takes no more room than the ordinary hook or peg, can be used for both single and double harness. Gives the harness-case a neat appearance, as it carries the harness up uniformly in width with the saddle, beside keeping the bridle and breastplate in their proper shape. They are neatly japanned, with gilt facings. Price \$18 per dozen. Are now in use in over 100 first-class private stables in and about Boston.

Each bracket lettered "J. J. Read, Boston, Mass." For sale by dealers everywhere.

Indorsed and approved by the following named gentlemen, all of whom have them in use:

Boston: R. H. White, J. Montgomery Sears, J. T. Morse, Jr., Thos. Motley. South Boston: Benjamin Dean, Cambridge: F. A. Kennedy, John Bartlett, Chas. H. Gass. Portsmouth, N. H.: Hon. Frank Jones. Milton: Col. H. S. Russell, J. Malcolm Forbes, Dedham: A. W. Nickerson. Baltimore, Md.: J. D. Malory, Newton: J. C. Potter, C. E. Billings, A. H. Mitchell, Waltham: J. H. Ellison, Readville: C. G. White, Beverly: Dr. Chas. Haddock. Swampscott: C. F. Curtis. Boston, Mass.: Waldo Adams, with the Adams Express Co. Philadelphia, Pa.: Edward N. Williams, of the Baldwin Locomotive Works.

The public are cautioned against all similar brackets, not marked with my stamp, as such brackets are infringements of patents held by me.

Also cedar-top riding-saddle bracket. Price \$3.50 each. And whip-rack for English coach and straight whip combined. Price 50 cents each.

JAMES J. READ, 13 Tremont Row, Room 10.

DRAUGHTSMEN'S SENSITIVE PAPER
FOR COPYING DRAWINGS & C. IN
WHITE LINES ON BLUE GROUND
BY LIGHT AN EXCEEDINGLY CHEAP & SIMPLE METHOD
AMATEUR PHOTOGRAPHIC OUTFITS
SEND FOR / THOS H McCOLLIN 635 ARCH ST
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PUBLICATION OFFICE OF THE **ADVERTISERS**
New England and the South.



237 WASHINGTON STREET,
BOSTON.

GEO. H. CHAPIN, Publisher.

Subscription Price \$3.00 a year. Sample copies, post, free.

Special Bargains in the Famous Piedmont Region of the South.

Cesar's Head Hotel (less than a day's buggy ride from Mr. Vanderbilt's Extensive Purchase at Asheville, N. C.) with park of 2235 acres. Price \$35,000, \$5,000 cash, balance in annual payments.
One Million Acres Timber Land in North and South Carolina from 75 cents to \$1.00 an acre.
Vineyards, Plantations and large unimproved tracts of land for Colonies.

Southern Village, comprising Cotton Mill 100 x 60, 3 stories, capacity 5000 spindles; warehouses, store, cotton gin, flouring, grist and saw mills, president's and superintendent's residences, 35 houses, 3 stables, and 288 acres land, now doing profitable business. Price \$25,000. \$5,000 cash, balance in annual payments.

A Palatial Southern Home. In famous Nacoochee Valley, fine house and out-buildings upon which more than \$75,000 has been expended, 2,500 acres, adjoining a gold mine with capitalization of \$2,000,000, the same vein extends through this estate. Price \$28,000, including blooded stock, machinery, etc. Apply to Capt. J. H. Nichols, Nacoochee, Ga. or to Geo. H. Chapin.

"Grand View Hotel" with 3,000 acres at Tallulah Falls, the "Niagara of the South," valuable gold deposits, over a mile of water-power, one of the best localities for an industrial town in the South. Price \$45,000, easy terms. Apply to W. D. Young, Tallulah Falls, Ga. or to Geo. H. Chapin.

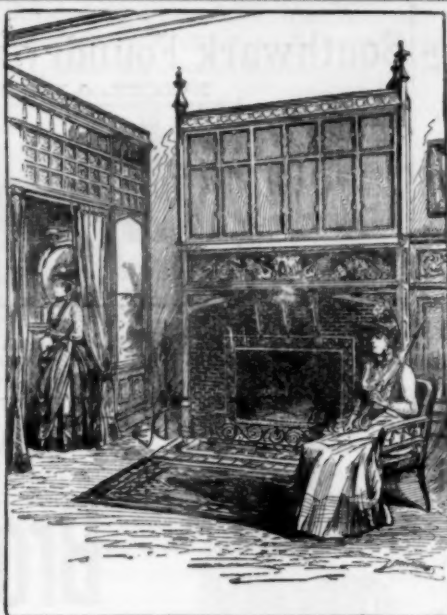
Furniture, Foundry, Sash and Blind Establishments in live Southern City.

A Street Railway in prosperous city that has doubled its population during last 5 years. Price \$10,000. Will sell whole, half or quarter interest.

Illustrated descriptions mailed postpaid on application to

GEORGE H. CHAPIN,

237 Washington St., Boston; 36 Pine St., New York; 5 and 6 Palace Chambers Bridge St., Westminster, S. W. London; 48 Main St., Greenville, S. C.



A. C. BARTLETT, President.
A. S. HOPKINS, Vice-Pres. and Gen. Mgr.
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THE HENRY DIBBLEE CO.,

Fireplace Furnishings,

MANTELS,

GRATES and TILE

Fine Brass and Onyx Goods,

266 & 268 Wabash Ave.,

CHICAGO.

We invite inspection and correspondence. We claim to have the best designs and the most complete stock to select from in the United States. We make a specialty of fine ordered work from designs, which are kept exclusive, in

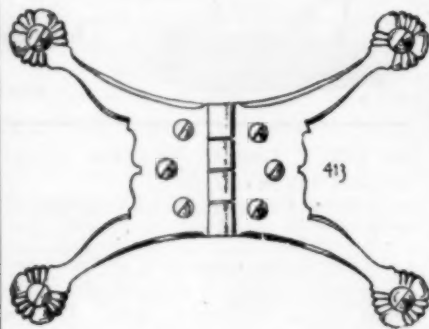
MANTELS, SIDEBOARDS,

DINING-ROOM SETS,

HALL SEATS, ETC., ETC.

Send six cents in stamps for our illustrated Fireplaces."

When you write, mention this paper.



**Antique
HINGE PLATES**

IN STOCK

AND MADE TO ORDER.

J. B. Shannon & Sons,

1020 Market Street, PHILADELPHIA.

BURDITT & WILLIAMS,

ESTABLISHED 1860.

Manufacturers and Dealers in

FINE HARDWARE

**Dwelling-Houses, Churches,
Stores and Public Buildings.**

Every Excellence of Mechanism. Latest and most approved Styles and Finish.

Special New Designs of Knobs in Cut-Glass. Patterns made to order from Architect's Designs. Estimates made. Contracts filled in all Markets.

20 DOCK SQUARE, BOSTON. BRANCH OFFICES. { 1300 Broadway, New York.
1416 F St., Washington, D. C.

Our Hardware may be found in important buildings in the leading cities of the Country.

ATLANTIC WHITE-LEAD & LINSEED-OIL CO.,

MANUFACTURERS OF

**"ATLANTIC"
PURE
WHITE LEAD,**

—AND—

**Pure Linseed-Oil,
Raw Refined and Boiled.**



The best and most reliable
White-Lead made,
And unequalled for
**Uniform
Whiteness,
Fineness,
and Body.**

ADDRESS,
Atlantic W. Lead & Lin. Oil Co.
287 Pearl St., NEW YORK.



"K. B. & S." PORTLAND CEMENT.

The "OLD RELIABLE" brand of Knight, Bevan & Sturge, (K.B.&S.) OF LONDON, ENGLAND.

The best known of all Portland Cements, universally popular and guaranteed to give perfect satisfaction for any purpose requiring Portland Cement.

SINCLAIR & BABSON, Sole Agents in the United States,
16 & 18 Exchange Place, New York.

THE AMERICAN ARCHITECT AND BUILDING NEWS

ADVERTISERS' TRADE SUPPLEMENT.

No. 93.

SATURDAY, MARCH 1, 1890.

VOLUME XXVII.
No. 740.

BRICK-MAKING MACHINERY.

THE recent large fires in some of our cities, which established the superiority of brick as a building material, and also the adoption of them as street-pavers, has given the brick business a new and unprecedented impetus.

New machines for the production of them are being constantly invented and put into the market, which generally marks a step forward in producing finer qualities and larger quantities of ware with a reduction of labor in the manufacture.

The Frey-Sheckler Company, of Bucyrus, Ohio, have just issued a catalogue illustrating a series of machines, mostly of the stiff-clay pattern, which is very interesting. It not only shows eight different styles of machines for the making of brick and tile, also hollow building-blocks, but gives description of full factory outfits which this firm manufactures, including power, preparatory machines, elevators, dump-cars, etc. A cut of one of these machines is shown herewith.

In order that our readers may keep pace with this branch of the ceramic art, a short

One end of the cut of machine shows the mechanism for cutting the slab of clay as it issues from the mouth-piece into side-cut brick. The same operatives cutting twelve brick also put them on pallets and shove them on the truck shown in the foreground, thereby doing away with most of the hard labor in handling the brick. Side-cut bricks are generally preferred for building brick, while paving bricks are made end-cut; this machine pushes out two streams of end-cuts, which are cut by different devices and carried off on a travelling belt.

THE FREY-SHECKLER CO.,
BUCYRUS, O.

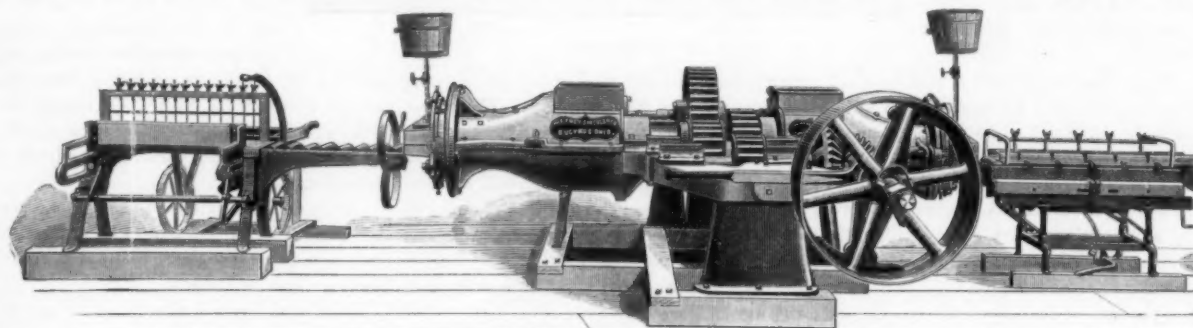
THE OTIS BROTHERS AND M. EIFFEL.

OTIS BROTHERS, elevator-builders of New York, have brought suit before the Tribunal de Commerce de la Seine, in Paris, against Gustav Eiffel, designer of the celebrated Eiffel Tower, to recover a balance of \$14,700 alleged to be still owing on the thirty-thousand-dollar contract under which they were to

A PHOTOGRAPHIC NOVELTY.

RAPID as has been the progress in all branches of photography, the problem of seizing and reproducing the varied colors of nature seems as far from solution as ever. That achievement is still the dream of the ambitious photographer, and some day perhaps chemistry may help the experimenter with her subtle secrets to make the dream a reality. Apart from this supreme problem, however, photography is making daily extraordinary advances. The art to-day is unlike that of yesterday, and what it may be to-morrow no one can predict. The cumbersome methods of the past have been abolished; keener sensitive surfaces have been discovered; the dry glass plate has driven out of the field the old wet process, and other improvements are making still easier and more delightful the work of the photographic amateur.

The latest novelty — and a charming one it is — is the Kodak camera, brought out by the Eastman Dry Plate Company, of Rochester, N. Y. This consists of a small oblong box no longer than an ordinary cigar box. A roll of



The Frey-Sheckler Brick Machine.

description of this class of machinery will not be uninteresting.

The machine is called the Duplex Acme Brick and Tile Machine, in distinction from the single Acme Machine, as two machines are driven by one set of gearing.

The large parts of the cylinder where the clay enters is provided with mixing-knives, while the smaller parts have propelling augers inside, which force the clay through a die of the proper form for brick tile or hollow blocks.

The dies are lined with over-lapping plates of sheet steel, from under which a lubricant of water, oil or steam exudes, reducing the friction and insuring sharp corners on the ware.

The Duplex system, besides increasing the output to double that of a single machine, balances the end pressure on the forcing shaft.

furnish and deliver on the grounds of the Paris Exposition two elevators, which were to be run from the ground up to the second platform of the tower. Otis Brothers aver that, under the contract, they were simply to deliver the elevators in working condition, and M. Eiffel was to put them up; but the defendant objected to this simple delivery and refused to pay the balance, on the ground that the elevators were not up and running when the exposition opened its doors to the public. Chief Engineer T. E. Brown, Jr., of the Otis Company, said recently that the material was delivered on the ground as the contract required, and all delay in putting up the elevators was due to M. Eiffel. There were five elevators in all on the Eiffel Tower, two made by Otis Brothers. They cost in all about \$400,000, and cleared a net profit during the exposition of 6,000,000 f. — *New York Times*.

prepared paper stands behind the lens, which is covered by a revolving shutter. The box is presented to the object to be photographed; a little stud is pressed with the forefinger of the left hand; snap goes the shutter; the exposure has been made, and a turn of the handle on the top of the box brings a fresh portion of the roll behind the lens ready for the next picture. The roll is large enough for a hundred pictures, and a child can manipulate it.

The pictures thus taken are necessarily small, but they are perfect little gems. So sensitive is the prepared surface, that although the exposure is only the fraction of a second, the amount of detail in the picture and the clearness and sharpness with which it comes out is amazing. For broad landscape effects the Kodak is, of course, not intended. Its strongest point is in reproducing those choice bits of Nature which abound in every locality.

A quaint, picturesque cottage with its vine-clad porch and clump of sugar maples; a quiet turn in the brook, with perhaps an old willow bending over it, or a group of silver birches brightening up the rising bank; a bold jutting piece of rock; the village church; the blacksmith's shop with horses waiting to be shod; the country school-house with its inmates just let loose—these are a few of the things which the Kodak turns into pictures of beauty and a joy forever.

For the tourist or the over-worked business man spending a few weeks' vacation in the country, the Kodak, when known, will be indispensable. It takes up little room and can be carried in a small satchel slung over the shoulder, and is always ready for use.—*New York Tribune, December 12, 1888.*

THE EASTMAN CO.,

ROCHESTER, N. Y.

ANAGLYPTA.

THE difference between "Anaglypta" and all other embossed paper fabrics is this—that whereas the other fabrics have been first made as an ordinary paper and then embossed as a separate process, anaglypta is embossed while the pulp from which it is made is in a plastic state and before it assumes the form of paper.

The advantages in favor of "Anaglypta" are many; the following are a few:—

1. The saving of one process in manufacturing.
2. The power of producing, if needed, much greater sharpness and delicacy in the modelling.
3. The power of making the fabric to a thickness that is quite unattainable by the old process.
4. The parts in relief are thicker, and therefore will maintain the relief when pasted for fixing, and after having dried on the walls, etc.

5. Even when made into a thin fabric, it does not lose its relief when pasted on walls; having been embossed when plastic, it never assumes a flat form; whereas, with paper previously made and then embossed, the tendency is very strong to resume its original flat form as soon as it begins to dry after pasting, the result being that all the spirit of the modelling is lost and the fabric is a failure.

The process is one that allows of the material being embossed into very bold relief.

7. Anaglypta is very much cheaper than any other fabric of a like character, and therefore admits of this very high-class form of decoration being available for a much greater amount of decorative work.

It is certain that to be appreciated by artists it is essential that the designs of such a fabric should be of a high class and well modelled, and this firm spares no pains or expense in obtaining the assistance of the most skilful designers, modellers, and engravers.

The style of patterns in anaglypta vary very much and include Queen Anne, Renaissance, French, Venetian, Indian, Persian, Moorish, Greek, Arabian, Japanese, Louis XVI, Adams, Pompeian, Old English, seventeenth-century German; and amongst the artists (whose names are given on our price list) may be found the following well-known names: Owen W. Davis, architect, C. F. A

Voysey, architect, Dr. Christopher Dresser, Ph.D., F. L. S., etc., J. Lamb, A. W. Cooze, and T. Sheffield. Some of our best designs are by artist friends who prefer to remain incog.

The sole American agents are,

NEVIUS, & HAVILAND,
406 BROADWAY, NEW YORK.

A QUICK CHANGE OF LARGE ENGINES AT THE BALDWIN LOCOMOTIVE WORKS.

JUST what it means for an engine to be self-contained and shipped completely erected, tested and ready to put into operation is not always appreciated until practically illustrated. A recent occurrence at the Baldwin Locomotive Works proves this in a forcible way. The Hamilton Street Shop of that works has been operated for several years past (twenty-four hours a day) by a Westinghouse 200 H. P. Standard Engine, which is one of a dozen or more of the same kind in use in this extensive establishment. They have recently been replacing their larger Engines with Westinghouse Compounds for the purpose of gaining the greater economy due to the use of the latter. They recently had occasion to make a



Anaglypta.

change from the 200 H. P. Standard Westinghouse to a 250 H. P. Westinghouse Compound, without stopping the works. The Standard Engine ran the shop up until 6 o'clock P. M., when it was stopped, disconnected, removed from the foundation; the 250 H. P. Compound was put in its place, connected up, pipes run, and was in operation at 3.30 A. M. This is probably as quick a change as was ever made with engines of such a size.

That this is only possible with a self-contained engine, which can be completely erected and tested in the shop in which it is built, is evident, and even with the advantages offered by such an engine for quick erection, it is a smart job of work to perform in such a limited time. It is somewhat doubtful whether or not it could be performed at all by any concern, unless it, like the Baldwin Locomotive Works, has been able to make a record for itself of turning out a locomotive complete in seven days after the receipt of the order.

WESTINGHOUSE MACHINE CO.
PITTSBURGH, PA.

ERICSSON'S HOT-AIR ENGINE.

JOHN ERICSSON, the noted inventor, on March 30, 1880, was granted a patent on a hot-air engine, which, later, he transferred to Mr. George H. Robinson, of this city, who, in turn, assigned all his rights under the patent to C. H. Delamater of the Delamater Iron

Works, who secured a reissue of the patent, and proceeded to manufacture the peculiar engine. Mr. Delamater soon found that a number of other firms were engaged in the manufacture of Ericsson's hot-air engine, and he began proceedings to enjoin them. Among the manufacturers engaged in turning out the engines were John Weber, A. Flake, E. Bertine, M. Gibling, S. F. Knapp, C. R. Frisbie, H. Rheinhardt, Joseph Granger and W. H. Harrison. The injunction was asked against all of them, and they made answer that Ericsson was not the original inventor of the hot-air engine, and that it was in use prior to the issue of letters patent to him. Judge Lacombe granted the motion as to the priority of Ericsson's patents, but denied it as to the prior use of the engines.

DELAMATER IRON WORKS,
NEW YORK, N. Y.

WOOD'S PATENT PEDAL VALVE FOR RADIATORS.

THIS valve is the result of much study and of many costly experiments. Those who use steam or hot-water for warming from Direct Radiators, know from experience how much would be

added to an otherwise satisfactory heating apparatus, if leaky, hard-working valves could be replaced by those working perfectly and requiring no effort beyond a simple touch of the foot to turn the heat on or off. The "Pedal Valve" fills the bill perfectly and can never be left partly opened. In low-pressure steam-heating this of itself is of the greatest importance. Many people attempt to regulate the amount of heat by the opening given the valve, under the mistaken idea that when a little heat is wanted, the valve should be opened but a little. This practice allows the radiator to fill with water, which soon finds its way through the air vent to the room, while the radiator and the whole heating appa-

ratus enter a vigorous protest by loud thumping. The "Pedal Valve" is always either wide open or tightly closed. It is simple in construction and all parts are duplicate and interchangeable.

An important feature of the Pedal Valve is the absence of all packing, which in ordinary valves requires frequent renewal to prevent leaks on floor or carpets.

The Pedal Valve is neat in design, and made in the best manner, and is finished or unfinished, plated or plain, as may be desired. The price is but a trifle more than for the other standard makes of valves.

No more strained wrists, backs or tempers! A touch of the foot settles the question.

Economy.—In a large office-building, if it is easier to open a window than to turn off the steam, the window will "go up" when the room is too warm. If it is easier to turn off the steam than to open the window, the steam will be shut off when the room is too warm, and the one who pays for the coal will have less to pay.

The same economy will follow its use in dwellings, and comfort and convenience, with little effort and no worry, will be the result.

To the Trade.—In presenting the Pedal Valve we wish to call attention to the fact that the valves are all thoroughly tested before leaving the works and are so made by duplicating tools that any part can be replaced at any time. All unions are made as near the

ball-joint as practicable, and are so accurately fitted that in testing the valves, the unions are only screwed together by hand and are tight. It will be noticed that the list is the same as the regular list of compressible-disc valves and while the discount is not quite as low as the others we believe the slight difference in price is more than covered by the quality of the work offered. The valve has a full opening and the valve-disc takes such a position as to leave an "elbow" opening when the heat is turned on.

THE Whittier Machine Company have recently put into the Suffolk County Court House, Pemberton Square, this city, two steel boilers each four and a half feet in diameter, together with twelve hot-water boilers each four feet in diameter.

TO MY SWEETHEART'S KODAK.

O Kodak, are you void of sense,
That you so stoically take
The pressure of her bright fingers fair,
Which all my nerves would wildly shake?

Ah! don't you see her wealth of hair;
Her eyes, so softly, brightly blue,
Now bent with tender interest,
O Kodak Camera, on you?

And can't you feel the lively thrill
Of pleasure in her lovely face
When you work well? O, Camera,
I'd like just once to have your place

Such pictures as I'd take for her!
Such glorious views of East and West!
Like magic they should come. Her smile
Would pay me well to do my best.

You don't appreciate your luck,
O Camera, with glassy eye,
Which, staring ever straight ahead,
Sees not the charming maid close by.

If I were you — but never mind,
You're not her lover, that is clear;
While I — I love the very ground
That only serves to bring her near.

But still I scarcely envy you,
Although from me you steal her smiles;
You're deaf, and dumb, and blind to all
Her beauty rare, her winning wiles.

And saddest; worst of all your lot —
Ah! this I could not bear and live! —
To feel that I belonged to her,
And then to take a negative!

M. A. B. EVANS.

HOW TO SECURE A GOOD TIN ROOF.

WE submit details for guidance in specifying for either Flat Seam or Standing Seam Tin Roofs, using either 14" x 20" or 28" x 20" size sheets. The Standing Seam is used where there is sufficient slope to carry off the rain-water, etc.; the Flat Seam where there is little or no slope.

FLAT SEAM TIN ROOF:

Using 28" x 20" Size Sheets.—Roof to be covered with "Merchant's Roofing" brand of roofing tin; each sheet to be stamped with brand and thickness. Sheets to be of IC thickness, 28" x 20" size; flat seam. When edged the sheets are to show 19" x 27" exposed on the roof. The seams to be well soldered with guaranteed half and half solder—rosin being used as a flux. The soldering irons should not weigh less than eight pounds to the pair, using not less than six pounds of solder to every one hundred (100) square feet exposed on the roof. Roof flashed up at sides, and counter flashed with same brand and thickness.

For gutters the same brand of roofing plate as above is to be used in IX thickness. Have the tin carefully put together, and the seams well soldered.

The tin to be underlaid with best quality red rosin sized sheathing paper, laid to lap at least two inches. Barbed wire nails, No. 12 x 1 inch to be used every five inches in nailing the tin to the boards.

The tin to be painted with Prince's Metallic Paint, mixed with pure Linseed Oil (one-half boiled and one-half raw) on the under surface

before laying. Immediately after roof is laid, carefully clean off the rosin at seams; remove all dirt, etc., and then apply two coats of the above paint.

Using 14" x 20" Size Sheets.—Roof to be covered with "Merchant's Roofing" brand of roofing tin; each sheet to be stamped with brand and thickness. Sheets to be of IC thickness, 14" x 20" size; flat seam. When edged the sheets are to show 13" x 19" exposed on the roof. The seams to be well soldered with guaranteed half and half solder—rosin being used as a flux. The soldering irons should not weigh less than eight pounds to the pair, using not less than eight pounds of solder to every one hundred (100) square feet exposed on the roof. Roof flashed up at sides, and counter flashed with same brand and thickness.

For gutters the same brand of roofing plate as above is to be used in IX thickness. Have the tin carefully put together, and the seams well soldered.

The tin to be underlaid with best quality red rosin sized sheathing paper, laid to lap at least two inches. Barbed wire nails, No. 12 x 1 inch to be used every five inches in nailing the tin to the boards.

The tin to be painted with Prince's Metallic Paint, mixed with pure Linseed Oil (one-half boiled and one-half raw) on the under surface before laying. Immediately after roof is laid, carefully clean off the rosin at seams; remove all dirt, etc., and then apply two coats of the above paint.

STANDING SEAM TIN ROOF:

Using 28" x 20" Size Sheets.—Roof to be covered with "Merchant's Roofing" brand of roofing tin; each sheet to be stamped with the brand and thickness. Sheets to be of IC thickness, 28" x 20" size; standing seam. When edged the sheets are to show 17 1-4" x 27 1-4" exposed on the roof. The seams to be well soldered with guaranteed half and half solder—rosin being used as a flux. The soldering irons should not weigh less than eight pounds to the pair, using not less than 1 1-2 pounds of solder to every one hundred (100) square feet exposed on the roof. Roof flashed up at sides, and counter flashed with same brand and thickness.

For gutters the same brand of roofing plate as above is to be used in IX thickness. Have the tin carefully put together, and the seams well soldered.

The tin to be underlaid with best quality red rosin sized sheathing paper, laid to lap at least two inches. The tin to be well cleated, and each cleat to be nailed to the boards, at intervals of not over fourteen inches apart with two barbed wire nails, No. 12 x 1 inch.

The tin to be painted with Prince's Metallic Paint, mixed with pure Linseed Oil (one-half boiled and one-half raw) on the under surface before laying. Immediately after roof is laid, carefully clean off the rosin at the seams; remove all dirt, etc., and then apply two coats of the above paint.

Using 14" x 20" Size Sheets.—Roof to be covered with "Merchant's Roofing" brand of roofing tin; each sheet to be stamped with the brand and thickness. Sheets to be of IC thickness, 14" x 20" size; standing seam. When edged the sheets are to show 11 1-4" x 19 1-4" exposed on the roof. The seams to be well soldered with guaranteed half and half solder—rosin being used as a flux. The soldering irons should not weigh less than eight pounds to the pair, using not less than two pounds of solder to every one hundred (100) square feet exposed on the roof. Roof flashed up at sides and counter flashed with same brand and thickness.

For gutters the same brand of roofing plate as above is to be used in IX thickness. Have the tin carefully put together, and the seams well soldered.

The tin to be underlaid with best quality red rosin sized sheathing paper, laid to lap at least two inches. The tin to be well cleated, and each cleat to be nailed to the boards, at intervals of not over fourteen inches apart with two barbed wire nails, No. 12 x 1 inch.

The tin to be painted with Prince's Metallic Paint, mixed with pure Linseed Oil [one-half boiled and one-half raw] on the under surface before laying. Immediately after roof is laid, carefully clean off the rosin at the seams; remove all dirt, etc., and then apply two coats of the above paint.

WINDOW SASH CORD.

THE Samson Cordage Works of Boston have been sending to architects, sample cards showing their solid braided cords for hanging sash-weights. These are made of linen, Italian hemp or cotton as desired—the cotton yarn being made in the same factory, and thus insuring good stock and a uniform strength of

cord. The cotton makes the best wearing cord, and its durability is still further increased by the waterproof finish which this company applies when desired. The samples show all these varieties and are enclosed with an explanatory circular, the whole making a very neat appearance. The manufacturers propose to maintain the good name which the "Samson" Sash Cord has obtained for itself, and allow nothing but the best to go out under this label.

SAMSON CORDAGE WORKS.
164 HIGH STREET, BOSTON, MASS.

NOTES.

THE Whittier Machine Company have recently constructed for Mr. R. B. Brigham, this city, an elevator for passenger service upon the pressure-tank system.

NEW YORK, N. Y., February 21, 1890.

AMERICAN ARCHITECT, Boston, Mass.

Gentlemen:—Below please find copy of letter recently received from Mr. Harry Miner. Kindly publish copy of same in next edition of your paper, and oblige,

Respectfully yours,
I. P. FRINK.

PEOPLES' THEATRE, N. Y., February 14, 1890.
MR. I. P. FRINK, 551 Pearl Street,
New York City.

Dear Sir:—I could give you no more satisfactory evidence that the massive reflecting chandelier, with its 150 gas burners, lighted by electricity, and 126 incandescent electric lamps, you put in my Newark Theatre two years ago, has given entire satisfaction, than by ordering another exactly like it for the Fifth Avenue Theatre, New York City. I expect to make this one of the handsomest theatres in the City, and, as I considered your fixture one of the chief attractions in my Newark Theatre, I desire it also to be the same in this.

Yours is the only proper method of lighting a theatre and sooner or later will be adopted by all.

You may take your time in making it, as I do not take possession of the Theatre until May 1, 1890.

Respectfully yours,
HARRY MINER.

AMONG recent notable orders for the famous "Gorton" house-heating boilers, recently received by the manufacturers, Messrs. Gorton & Lidgerwood Company, of Chicago, New York and Boston, is one No. 5 boiler, for heating the new City-Hall Building, at Brewer, Me., and one No. 3 boiler for heating the Fifth Judicial Court Building, 154 Clinton Street, New York City.

MR. W. W. HUNT, of Amherst, Mass., has been awarded the contract for heating the new City-Hall Building in that city, and will use for the purpose, two No. 5 "Gorton" house-heating boilers.

THE Chrome Steel Works of Brooklyn, N. Y., have for some time past been experimenting for the purpose of producing stamp mill shoes and dies which should prove superior to any heretofore made. The result achieved has been even beyond their expectations. They have obtained a formula whereby they are now making shoes and dies guaranteed to wear evenly from beginning to end of service and which will last longer than those of any other make heretofore employed. Further information will be cheerfully furnished upon application to the manufacturers. The addition to the Chrome Steel Works, already mentioned in these columns, is rapidly nearing completion.

THE firm of C. B. Demarest & Co. expired by limitation January 1, 1890, and a new firm has been formed of the same partners with the addition of Mr. Henry D. Warner, continuing under the same firm name. C. B. Demarest, M. H. Leonard, M. C. Reid, H. D. Warner.

THE Whittier Machine Company have recently constructed for the Revere Rubber Company for their works in Chelsea, Mass., four horizontal steel boilers, each six feet in diameter.

Something New for the Stable.

Read's Patent Harness Bracket.



An Article long wanted but never before made.

Holds the whole harness, takes no more room than the ordinary hook or peg, can be used for both single and double harness. Gives the harness-case a neat appearance, as it carries the harness up uniformly in width with the saddle, beside keeping the bridle and breastplate in their proper shape. They are neatly japanned, with gilt facings. Price \$18 per dozen. Are now in use in over 100 first-class private stables in and about Boston.

Each bracket lettered "J. J. Read, Boston, Mass." For sale by dealers everywhere.

Indorsed and approved by the following named gentlemen, all of whom have them in use:

Boston: H. H. White, J. Montgomery Sears, J. T. Morse, Jr., Thos. Motley. South Boston: Benjamin Dean, Cambridge: F. A. Kennedy, John Bartlett, Chas. H. Gase, Portsmouth, N. H.: Hon. Frank Jones. Milton: Col. H. S. Russell, J. Malcolm Forbes, Dedham: A. W. Nickerson, Baltimore, Md.: J. D. Mallory, Newton: J. G. Potter, C. E. Billings, A. R. Mitchell, Waltham: J. H. Kilson. Readville: C. G. White, Beverly: Dr. Chas. Haddock. Swampscott: C. P. Curtis. Boston, Mass.: Waldo Adams, with the Adams Express Co. Philadelphia, Pa.: Edward N. Williams, of the Baldwin Locomotive Works.

The public are cautioned against all similar brackets, not marked with my stamp, as such brackets are infringements of patents held by me.

Also cedar-top riding-saddle bracket. Price \$3.50 each. And whip-rack for English coach and straight whip combined. Price 50 cents each.

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"Grand View Hotel" with 3,000 acres at Tallulah Falls, the "Niagara of the South," valuable gold deposits, over a mile of water-power, one of the best localities for an industrial town in the South. Price \$85,000, easy terms. Apply to W. D. Young, Tallulah Falls, Ga. or to Geo. H. Chapin.

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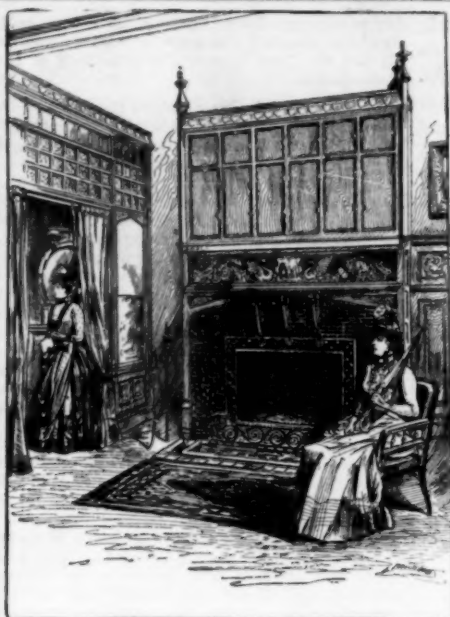
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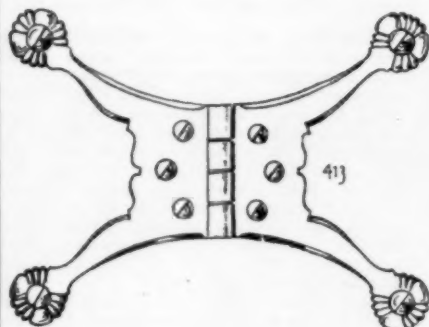
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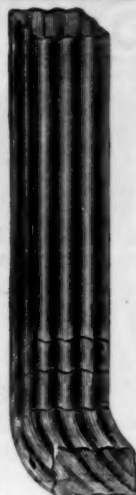
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The enlarged coupling makes the conductor of even size inside throughout.

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Pine, 1st quality, clear.....	65 00 @ 75 00	60 00 @ 60 00	47 00 @ 48 00	45 00 @ 55 00
" 2d quality.....	55 00 @ 60 00	43 00 @ 50 00	45 00 @ 45 00	40 00 @ 45 00
" 3d quality.....	18 00 @ 23 00	38 00 @ 40 00	30 00 @ 41 00	30 00 @ 35 00
Spruce.....	12 00 @ 25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock.....	13 00 @ 15 00	13 00 @ 15 00	12 00	11 25 @ 13 00
Yellow pine.....	20 00 @ 40 00	25 00 @ 35 00	25 00	14 00 @ 20 00
Cypress.....	22 00 @ 40 00	22 00 @ 40 00	25 00	22 00 @ 35 00
Clapboards:				
Pine.....	33 00 @ 60 00	33 00 @ 60 00	10 00 @ 21 00	14 00 @ 25 00
Spruce.....	20 00 @ 40 00	20 00 @ 40 00	Not sold.	Not sold.
Framing Timber:				
Pine.....	14 00 @ 18 00	15 00 @ 18 00	14 00 @ 15 00	25 00 @ 37 30
Spruce.....	12 00 @ 16 00	12 50 @ 15 00	Not sold.	16 00 @ 18 00
Hemlock.....	18 00 @ 21 00	24 00 @ 35 00	10 00 @ 13 00	13 00 @ 17 00
Yellow pine.....				22 00 @ 28 00
Laths:				
Pine.....	2 25 @ 2 30	2 25 @ 2 35	@ 2 20	2 75 @ 3 00
Spruce.....	2 25 @ 2 30	2 25 @ 2 50	Not sold.	2 30 @ 3 00
Shingles:				
Pine, shad..... P. M.....	5 00 @ 6 00		Not sold.	
Pine, sawed.....	4 00 @ 5 00		2 05 @ 2 90	
Spruce, sawed.....	1 50 @ 2 00	1 50 @ 2 00	Not sold.	
Redwood..... P. M.....	1 40 @ 1 60	3 75 @ 4 00	6 00 @ 7 50	30" \$35 @ 40
Cedar, split..... P. M.....			Not sold.	24" 8 @ 21
Cedar, sawed.....		2 00 @ 4 00	2 10 @ 2 30	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..... P. ft.....	41 @ 54	Piles 6c. P. ft.....	Cut to order.	
Fence pickets, Common.....	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 18 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts).....		25 00 @ 50	9 @ 21	40 @ 1 25
Chestnut.....		25 00 @ 50	Not sold.	20 @ 30
Finishing Woods: P. M. (First Qual.)				
Ash..... (Kiln-dried).....	45 00 @ 60 00	45 00 @ 60 00	35 00 @ 40 00	45 00
Cherry.....	80 00 @ 120 00	65 00 @ 120 00	85 00 @ 110 00	75 00 @ 80 00
Butterbark.....	40 00 @ 60 00	60 00 @ 70 00	50 00 @ 55 00	70 00 @ 80 00
Hard-pine floors (rift).....	48 00 @ 50 00	48 00 @ 50 00		
Mahogany, Baywood (Mexican).....	150 00 @ 160 00	150 00 @ 160 00	150 00 @ 180 00	150 00 @ 250 00
" St. Domingo.....	120 00 @ 350 00	120 00 @ 350 00	220 00 @ 250 00	200 00 @ 400 00
Maple.....	45 00 @ 50 00	45 00 @ 50 00	25 00 @ 35 00	25 00 @ 55 00
Oak, red.....	70 00	50 00 @ 55 00	32 00 @ 40 00	45 00 @ 55 00
" white.....	70 00	50 00 @ 55 00	35 00 @ 40 00	45 00 @ 55 00
" quartered.....	90 00	65 00 @ 80 00	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered.....		50 00 @ 65 00	45 00 @ 55 00	57 29 @ 65 00
Pine, clear.....	65 00 @ 70 00	50 00 @ 75 00	45 00 @ 55 00	60 00 @ 65 00
Redwood.....	60 00 @ 70 00	60 00 @ 70 00	55 00 @ 60 00	60 00 @ 75 00
Rosewood.....		30 00 @ 32 00		
Spruce floors (clear, kiln-dried).....	125 00 @ 150 00	85 00 @ 120 00	80 00 @ 110 00	50 00 @ 170
Walnut, black.....	45 00 @ 50 00	40 00 @ 45 00	30 00 @ 35 00	25 00 @ 40 00
Whitewood.....		40 00 @ 45 00	25 00 @ 30 00	27 50 @ 45 00
Yellow pine..... P. M.....	45 00	40 00 @ 45 00		

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BRICK.—(P. M.)				
Common: Cargo of East.				
Fale.....	\$ 50 @ 4 00	Eastern.....	Building Brick.....	Sq. Hard @ 12
Jersey.....	5 75 @ 6 75	Bay State Hard.....	6 50 @ 6 50	" @ 9 00
Long Island.....	6 00 @ 6 50	Domestic Com. 9 50 @ 10 00	Indiana Pressed.....	Sq. " @ 9 00
Up River.....	6 50 @ 6 75	Domestic Face.....	14 00 @ 20 00	Light Stretchers.....
Haverstraw Bay 2nd.....	6 75 @ 7 25	Philadelphia.....	27 00 @ 27 00	Medium " @ 12 00
" 1st.....	13 00 @ 13 00	Phila. mould.....	50 00 @ 50 00	Red " @ 14 00
Hollow.....	14 00 @ 15 00	Anderson.....	15 00 @ 27 00	Dark " @ 15 00
Fronts.....	15 00 @ 16 00	14 00 @ 32 00	65 00 @ 350 00	Pressed.....
Oroton, Brown.....	15 00 @ 16 00		45 00 @ 50 00	22 00 @ 26 00
" dark.....	15 00 @ 16 00		45 00 @ 50 00	Best Paving.....
" red.....	15 00 @ 16 00		25 00 @ 30 00	@ 16 00
Chicago pressed (Anderson).....	7 00 @ 41 00		60 00 @ 100 00	Second " @ 14 00
Chicago Moulded.....	7 00 @ 41 00		30 00 @ 35 00	Third " @ 13 00
Baltimore.....	7 00 @ 41 00		55 00 @ 65 00	Dom. " @ 8 00
Philadelphia.....	7 00 @ 41 00		100 00 @ 120 00	85
Trenton.....	7 00 @ 41 00			
Milwaukee.....	7 00 @ 41 00			
Moulded:				
Glens Falls Red Pressed.....	45 00 @ 70 00			
" " Buff.....	45 00 @ 70 00			
" " Moulded Red & Buff.....	45 00 @ 70 00			
Enamelled: Imp.....	80 00 @ 100 00			
Enamelled (edge).....	90 00 @ 115 00			
Enamelled (edge and end).....	90 00 @ 115 00			
CEMENT, LIME, etc.—(P. M.)				
Rosendale Cement.....	95 @ 1 10	Brooks, S. & Co.....	1 05 @ 1 30	White Lime.....
Louisville.....	Not sold.	2 00 @ 3 00	1 00 @ 1 25	25 @ 30 bush.....
Utica, Akron, Buffalo, Milw'kee.....	2 50 @ 3 00	2 60 @ 3 00	2 75 @ 3 25	White Mass.....
Portland, English (Gibbs).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	1 25 @ 1 50
" (K. B. & S.).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	1 00 @ 1 00
" " Black Cross.....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
" " (Burham).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
" " (White's).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
" " French (Lafarge).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
" " German (Alsen).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
" " (Power).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
" " (Dyckerhoff).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
" " (Lagerhofer).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
" " (Hanover).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
" " Stettin (Anchor).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
" " American (Saylor's).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
Roman.....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
Keane's coarse.....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
" superfine.....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	Not sold.
LIME				
Lime of Tell.....	5 50 @ 4 00			
Hydraulic Lime.....	5 50 @ 4 00			
Chicago Lime in bulk.....	5 50 @ 4 00			
Wisconsin.....	5 50 @ 4 00			
Rockland and Rockport, (Com.).....	5 50 @ 4 00			
Rockland and Rockport, finish.....	5 50 @ 4 00			
Kelley Island Lime, finish.....	5 50 @ 4 00			
State, com. cargo rates (nom.).....	5 50 @ 4 00			
State, finishing.....	5 50 @ 4 00			
Plaster of Paris (calcined).....	5 50 @ 4 00			
" (cast).....	5 50 @ 4 00			
Hair (Cattle) & bush.....	5 50 @ 4 00			
" (Goat).....	5 50 @ 4 00			
Sand, & load.....	5 50 @ 4 00			
STONE.—(P. M. (cut, rough))				
Granite: (Maine).....				
Limestone:				
Bedford.....	45 @ 1 25			
Joliet.....	45 @ 1 25			
Lemont.....	45 @ 1 25			
Serpentine.....	45 @ 1 25			

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Dimension		8 00 \$ ton	20	5 00
Block		4 60 \$ perch		1 45
Rubble		1 25	1 50	2 50
Quarries: (\$ sq. ft.)				
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00	1 in. th. 10 @ 25
Planned	50 @ 6 00	75	80 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	80	80 @ 90		95 @ 1 16
Kibbe	90	90 @ 1 10		1 05 @ 1 35
Brown (Connecticut)	1 00 @ 95	1 25 @ 1 45	1 50 \$ emb. ft.	55 @ 1 00
Amherst	90 @ 95	90 @ 1 00	45 @ 50	
Berea } Ohio	75 @ 1 00	80 @ 90	45 @ 55	
Berlin	75 @ 1 00	80 @ 90	55 @ 65	
Bellefonte	80 @ 1 25	1 25 @ 1 35	" 1 25	
New Brunswick (Dorchester)	80 @ 1 00	75 @ 90		1 10 @ 1 4
Onondaga	80 @ 1 00	75 @ 90		1 00 @ 1 1
Carlisle, English	80 @ 1 05	80 @ 90		1 25 @ 1
Corse Hill (Scotch)	80 @ 1 05			95 @ 1 1
Marble (\$ cu. ft.)				
Lee, Mass.	1 00	1 75 @ 2 50	Not sold.	2 00 @ 2 50
Putland, white and blue		3 00 @ 3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls	1 25 @ 1 75	2 00 @ 2 00	3 50 @ 6 00	1 70 @ 3 00
Glen Falls, black		2 00 @ 3 00	Not sold.	4 00 @ 4 50
Italian, blue-veined		50 @ 60	4 @ 4 40	2 50 @ 2 75
" Sienna		3 00 @ 3 50	Not sold.	5 00
Tennessee, red		1 25 @ 2 50	4 @ 4 40	4 00 @ 6 00
" Knoxville		85 @ 90	4 @ 4 40	3 00 @ 4 00
Pennsylvania, blue		1 50 @ 2 00	Not sold.	2 00 @ 3 00
Vermont, white			3 50 @ 6 00	2 25 @ 3 00
Slates: 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	7 50 @ 10 25
" black, Lehigh			6 25 @ 6 85	3 25 @ 4 00
" Chapmans	5 50 @ 8 00	5 50 @ 8 0	7 30 @ 8 00	4 00 @ 4 65
" Unfading Black, Monson, Me.			6 00 @ 9 00	5 50 @ 8 00
Tile, Am.			Not sold.	6 00 @ 6 75
N. Peach Bottom, warranted unfading				
PAINTS. (In oil, \$ lb.)				
White lead, Am.	7 @ 7 1/2	7 @ 7 1/2	6 1/2 @ 7	7 @ 7
" Zinc	5 @ 8	7 @ 12	6 1/2 @ 7	7 @ 7
Red lead, Am.	6 1/2 @ 10 1/2	7 @ 12	6 1/2 @ 7	7 @ 7
" Venetian	6 @ 10 1/2	7 @ 12	6 1/2 @ 7	7 @ 7
" Vermilion	6 @ 10 1/2	7 @ 12	6 1/2 @ 7	7 @ 7
Red Indian, Eng.	12 @ 20	12 @ 20	12 @ 20	12 @ 20
Yellow Ochre	6 @ 15	12 @ 20	12 @ 20	12 @ 20
" Chrome	12 @ 20	12 @ 20	12 @ 20	12 @ 20
Green (chrome)	8 @ 12	12 @ 20	12 @ 20	12 @ 20
Green, Paris	25 @ 40	15 @ 25	18 @ 30	12 @ 20
Black, lamp	15 @ 25	15 @ 25	12 @ 30	12 @ 20
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 30	12 @ 20
Oil, linseed, (raw)	57 @ 62	59 @ 60	57 @ 60	56 @ 60
" " boiled	60 @ 65	62 @ 63	61 @ 63	61 @ 60
Turpentine	45 @ 46	18 @ 20	51 @ 51	50 @ 50
Varnish, coach		1 50 @ 6 00	1 25 @ 2 00	3 00 @ 3 00
Shellac		2 50 @ 3 00	2 25 @ 4 00	2 75 @ 2 75
Putty	3 @ 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	2 @ 3	1 @ 2	1 @ 2
Litharge, Am.	54 @ 6	14 @ 20	4 @ 16	14 @ 14
Sienna (burnt)	14 @ 20	14 @ 20	4 @ 16	14 @ 14
Umber	14 @ 20	14 @ 20	4 @ 16	14 @ 14
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought.)	2 85	2 30	2 05 @ 2 15	pr kg @ 2 25
10d. common	2 60	2 50	2 05 @ 2 15	2 30
Shingle	3 35	3 70	2 05 @ 2 15	2 60
Lathe	4 85		2 05 @ 2 15	2 60
Finishing nails according to size.			2 05 @ 2 15	2 60
(For casing nails add 70c. per keg.)			2 05 @ 2 15	2 60
Butts: 4" x 4" (\$ doz. pairs.)			2 05 @ 2 15	2 60
Plain	1 00	1 20	65 @ 1 00	1 35 @ 2 00
Japaned	1 50	1 75	Not sold.	1 35 @ 2 00
Acorn, Japaned	1 50	1 90	2 00 @ 3 75	1 35 @ 2 00
Ball Tip, Boston Finish (\$ pair.)	65	60	Not sold.	1 35 @ 2 00
Bronze metal	1 90	1 65	2 00 @ 3 25	1 35 @ 2 00
Brass (or cupboards)	10	10	2 00 @ 3 25	1 35 @ 2 00
Ebony			2 00 @ 3 25	1 35 @ 2 00
Apple wood			2 00 @ 3 25	1 35 @ 2 00
Knobs: (\$ Set.)			2 00 @ 3 25	1 35 @ 2 00
Mineral, best	8	8	8 @ 10	Not sold.
Lava	50	75	65 @ 80	25 @ 50
Hematite	Not sold	17 @ 33	31 @ 40	25 @ 50
Porcelain	30	10	25 @ 30	100 @ 2 50
Glass, solid	Not sold	50	Not sold.	1 75 @ 2 00
Glass, silvered	Not sold	88 @ 1 00	50 @ 4 50	50 @ 1 50
Bronze metal	75 @ 2 00	50 @ 3 00	1 50 @ 3 00	22 @ 35
Brass	100 @ 2 50	16 @ 17 00	13 @ 15	37 @ 1 00
Solder:				
Sheet Lead				
Lead Pipe				
Iron:				
1-Beams, up to and including 30 ft.	3 3-10 @ 2 1/2	2 3-10		2 3-10
1-Beams, over 30 ft. 1, 1 1/2 c. advance	3 3-10 @ 3 1/2	2 3-10		2 3-10
Channel Beams				

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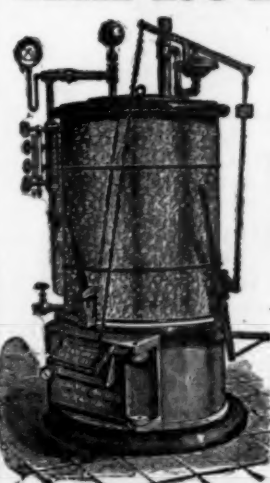
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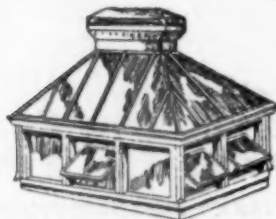
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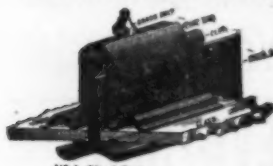
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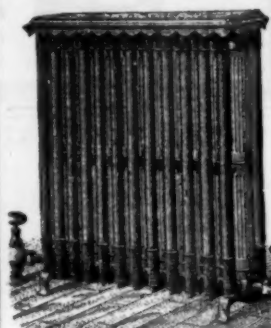
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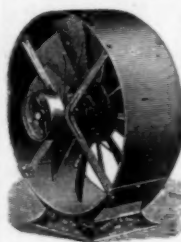
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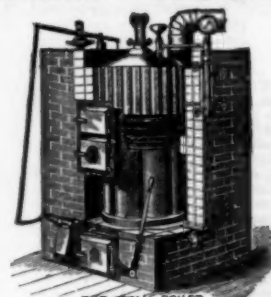
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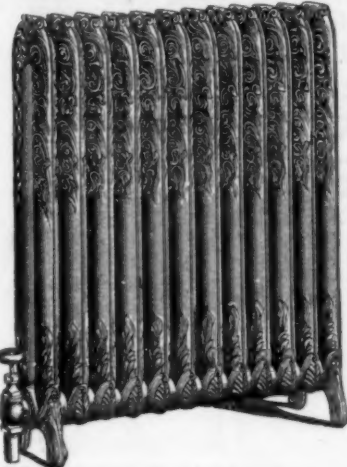
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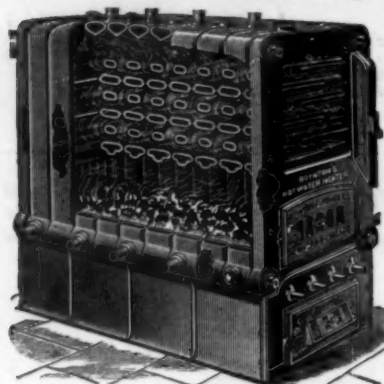
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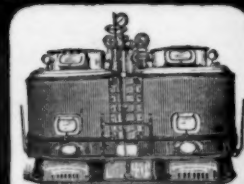
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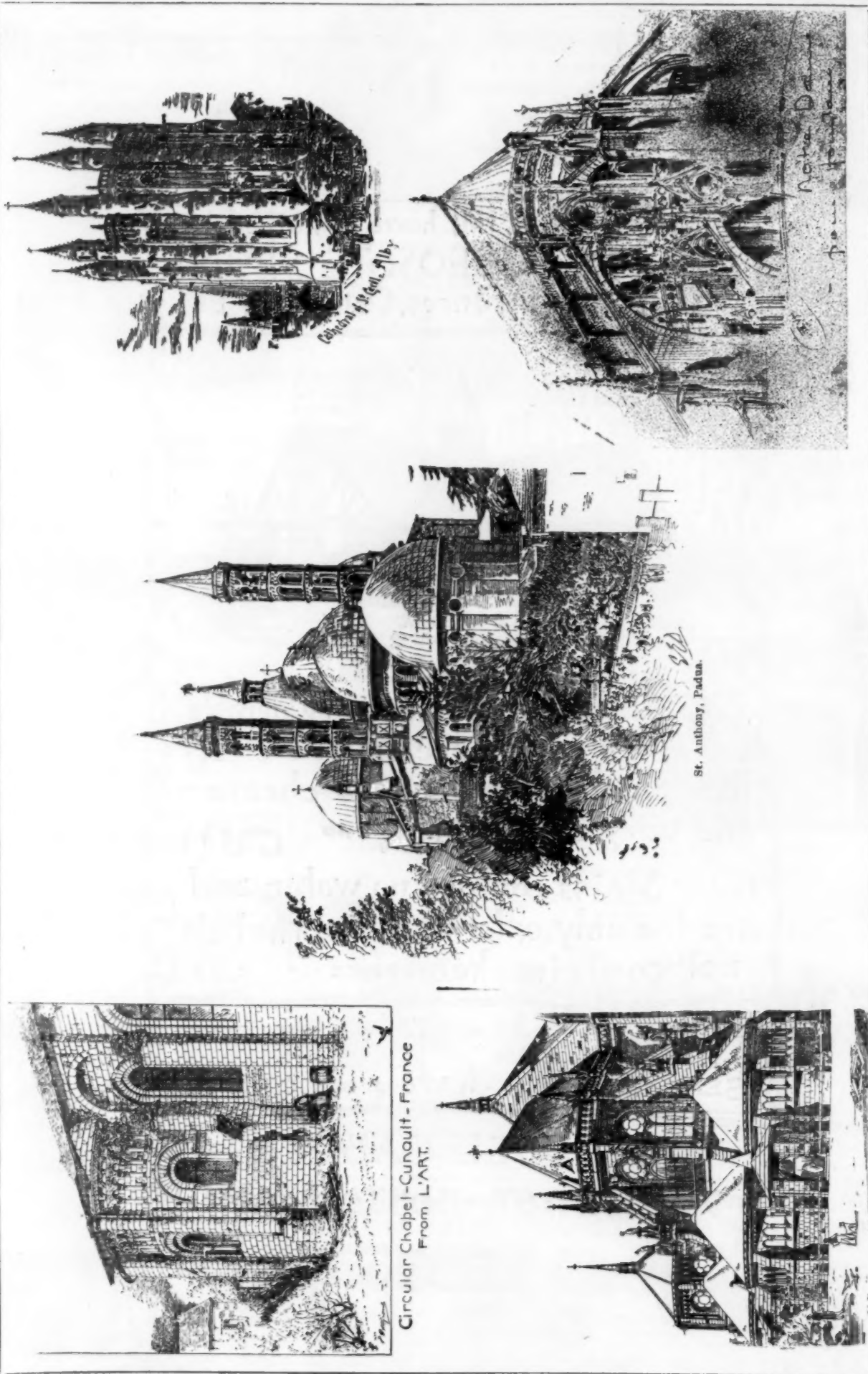
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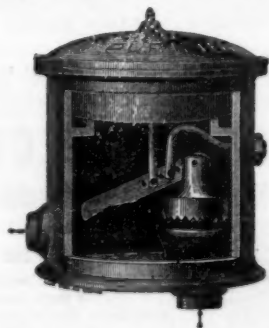
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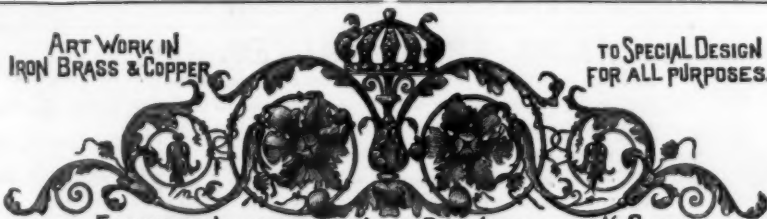
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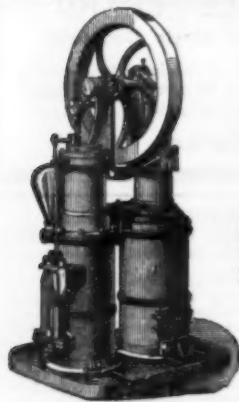
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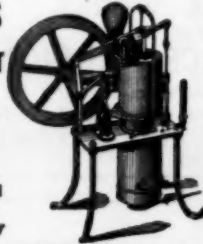
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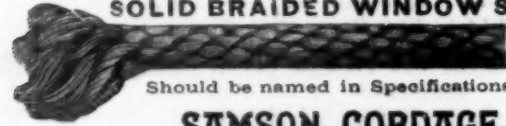
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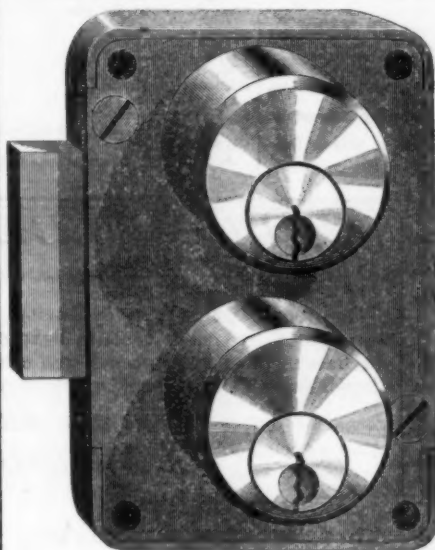
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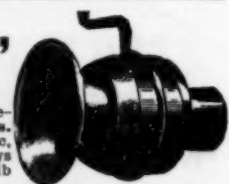
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(Reported for The American Architect and Building News.)

[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.]

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Boston, Mass.—West St., No. 30, cor. Mason St.,
Ward 10, lower first floor of store and put in new
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Washington St., cor. East Canton St., Ward 17,
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dwelling; owner, David S. White; builder, Edward M.
White.
Edinboro St., No. 28, Ward 10, remodel first story
of brick dwelling for restaurant; owner, G. G. Peters;
builder, H. H. Cox.

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Chicago, Ill.—Schram Bros., addition, 14-16 Armour St.; cost, \$4,000.
William Waller, addition, 108-110 Randolph St.; cost, \$10,000.

A. M. Allen, two-st'y addition, 431 Irving Ave.; cost, \$1,200.

Detroit, Mich.—Mason & Rice, addition and alterations, 1123 Woodward Ave.; cost, \$15,000.**Philadelphia, Pa.**—Waterloo St., No. 2651, one-st'y addition to dwell.; owner, W. M. Willoughby, 2651 Waterloo St.Leiper St., Nos. 1227-1229, interior alterations; contractors, Daft Electric Light Co., 1227-1229 Leiper St.
South Broad St., No. 511, one-st'y addition to back building; contractor, John Duncan, 905 Chank St.South Fifth St., No. 406, front alteration; contractors, Dahl & Kidd, 132 Bainbridge St.
Leiper St., No. 1227, interior alteration; contractors, Daft Electric Light Co., 1227-1229 Leiper St.

Haverford St., e. Fifth St., bay window; contractor, Henry Hathaway, Forty-eighth and Aspen Sts.

North Twenty-second St., No. 422, two-st'y new front and back building; contractor, W. L. Atkinson, 2214 Wallace St.

APARTMENT-HOUSES.**Boston, Mass.**—Falmouth St., No. 25, cor. Belvidere St., Ward 11, four-st'y brick apartments, flat roof, 55' x 109.1'; owner and builder, T. R. White.**Chicago, Ill.**—G. Miller, three-st'y flats, 783 North Robey St.; cost, \$5,000.
John Moormister, two-st'y flats, 1325 West Polk St.; cost, \$4,000.

C. O. Coster, four-st'y flats, Wabansia Ave., near Sheridan Ave.; cost, \$6,000.

A. C. Lundelius, three-st'y flats, 450 Thirty-eighth St.; cost, \$6,000.

Henry W. Martin, 2 three-st'y flats, 2314-2318 Dearborn St.; cost, \$9,000.

J. Meloush, three-st'y flats, 46 Hammond St.; cost, \$4,000.

BUILDING INTELLIGENCE.A. F. Johnson, three-st'y flats, 1975 North Ashland Ave.; cost, \$3,000.
Christ Green, two-st'y flats, 3732 Parnell St.; cost, \$1,000.Joseph Filz, three-st'y flat, 737 Sedgwick St.; cost, \$3,000.
L. J. Blades, two-st'y flats, 203-205 Warren Ave.; cost, \$20,000.

Holland Bros., three-st'y flats, 430 Austin Ave.; cost, \$13,000.

B. G. Borgenon, 2 two-st'y flats, 1043-1045 Belmont Ave.; cost, \$4,200.

C. M. Fisher, three-st'y flats and store, 1426 Diversey Ave.; cost, \$4,500.

August Peterson, two-st'y flats, Edison Ave.; cost, \$1,800.

H. Ives Cobb, 5 four-st'y flats, 2963-2971 Cottage Grove Ave.; cost, \$40,000.

P. Mohles, two-st'y flats, 66 Bingham St.; cost, \$1,000.

L. M. Walter, two-st'y flats, 1177 Fulton St.; cost, \$2,500.

L. Goets, two-st'y flats, 1419 Diversey Ave.; cost, \$1,000.

New York, N. Y.—Madison St., Nos. 84-85, 2 five-st'y brick flats, tin roofs; cost, \$35,000; owner, Albert Stake, Stapleton, N. Y.; architect, Alex. I. Finkle, s w cor. Broadway and Spring St.

Madison St., No. 412, five-st'y brick flat, tin roof; cost, \$23,000; owner, Wm. H. Ramsay, 14 West Sixty-first St.; architect, Geo. F. Pelham, 1481 Broadway.

One Hundred and Second St., s s, 160' e Third Ave., five-st'y brick and stone flat; cost, \$40,000; owner, Michael H. Barry; architect, John C. Burne, 1531 Third Ave.

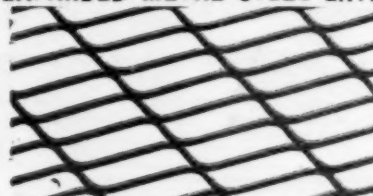
Ninety-fourth St., s e cor. Tenth Ave., 3 five-st'y brick and stone flats; cost, \$120,000; owner, Geo. W. Eggers; architect, Edward Wenz, 1491 Third Ave.

Eighty-first St., s w cor. Third Ave., five-st'y brick flat, tin roof; cost, \$45,000; owner, Geiger estate, 1267 Broadway; architect, M. C. Merritt, Lenox Ave. and One Hundred and Twenty-fifth St.

Stanton St., Nos. 192-194, 2 five-st'y brick flats, tin roofs; cost, \$36,000; owner, August Ruff, 56 Norfolk

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St.; architects, Kurtzer & Rohe, Seventh St. and Third Ave.

Spring St., No. 43, five-st'y brick flat tin roof; cost, \$16,000; owner, Michael Lapp, 141 East Forty-seventh St.; architect, Louis F. Heinecke, 62 Bowery.

Park Ave., n e cor. One Hundred and Eight-ninth St., five-st'y brick flat, tin roof; cost, \$25,000; owner, Gustavo S. Boehm, 116 East Eightieth St.; architect, Edward Wenz, 1491 Third Ave.

Avenue A, s w cor. Eighty-fourth St., five-st'y brick flats, tin roof; cost, \$25,000; owners, Moore & McLaughlin, 346 East Eighty-first St.; architects, Thom & Wilson, 1267 Broadway.

Eighty-fourth St., s s, 79' w Avenue A, 2 five-st'y brick flats, tin roofs; cost, \$36,000; owners, Moore & McLaughlin, 346 East Eighty-first St.; architects, Thom & Wilson, 1267 Broadway.

Tenth Ave., n e cor. One Hundred and Thirtieth St., five-st'y brick flat, tin roof; cost, \$22,000; owner, Thomas Maloney, 224 East Eighteenth St.; architects, Thom & Wilson, 1267 Broadway.

Tenth Ave., e s, 74' 11" n One Hundred and Thirtieth St., five-st'y brick flat, tin roof; cost, \$18,000; owner, Thomas Maloney, 224 East One Hundred and Eighteenth St.; architects, Thom & Wilson, 1267 Broadway.

One Hundred and Fifth St., n w cor. Fourth Ave., five-st'y brick flat, tin roof; cost, \$26,000; owner, John Bannon, 65 East One Hundred and Twenty-third St.; architect, John C. Burne, 1531 Third Ave.

One Hundred and Second St., s s, 160' e Third Ave., 2 five-st'y brick flats, tin roofs; cost, \$40,000; owner, Michael H. Barry, 2396 Third Ave.; architect, John C. Burne, 1531 Third Ave.

Somerville, Mass. (Spring Hill).—Harvard St., three-st'y frame apartments, six families, 52' x 88'; cost, abt. \$12,000; owner, A. N. Hardy; architect, J. F. Eaton, Boston; builder, R. H. Collupy.**CHURCHES.****Holyoke, Mass.**—Ward 1, Endeavor Chapel, frame structure; architect, G. P. B. Alderman.**St. Paul, Minn.**—John Nelson, trustee, brick veneer church, Fourteenth St., e Canada St.; cost, \$6,000.**FACTORIES.****Chicago, Ill.**—E. T. Haskell, four-st'y factory, 89-95 Ewing St.; cost, \$20,000.**HOUSES.****Boston, Mass.**—Nonquit St., near Dudley St., Ward

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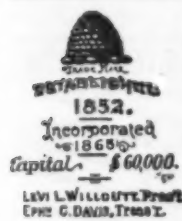
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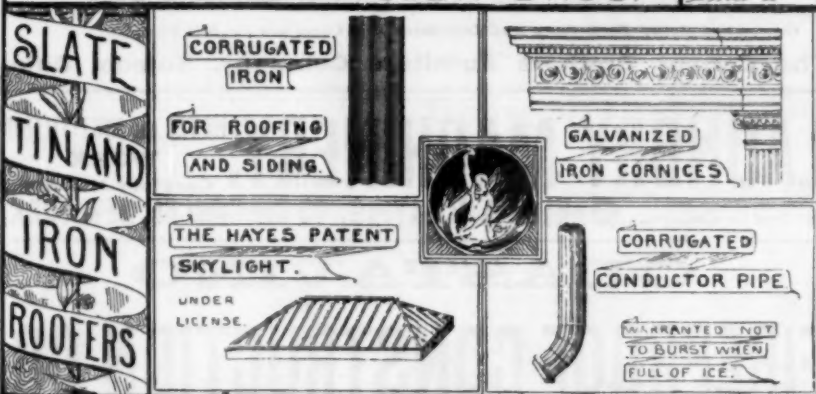
BUILDING INTELLIGENCE.

20, 9 two-st'y brick dwells, 21' x 35'; owners, F. M. & A. G. Frost; builder, C. Boulterhouse.
Mansfield St., near Cambridge St., Ward 25, two-st'y frame dwell., flat roof, 28' x 34', owner, G. Brennan; builder, J. H. McLeod.
Crawford St., near Humboldt Ave., Ward 21, three-st'y frame dwell., pitch roof, 27.6' x 41.4'; owner, Mrs. A. Faetten; builder, E. H. Cushing.
Davidson Pl., near Richfield St., Ward 24, frame dwell., 22' x 30'; owner and builder, W. A. Davidson.
Glen Rd., near Harvard St., Ward 24, frame dwell., 25.4' x 42'; owner, Annie M. Clark; builder, F. E. Reed.
Leydon St., near Breed St., Ward 1, two-st'y frame dwell., flat roof, 21' x 20'; owner, F. Lovetzalo; builder, F. L. Marko.
Richfield St., No. 42, Ward 24, three-st'y frame dwell., flat roof, 24' x 70'; owner and builder, W. J. Jobling.
Ashtland St., near Bedford St., Ward 24, frame dwell., 28' x 31.6'; owner, C. A. Webber; builder, F. E. Reed.
Armstrong St., Nos. 15-21, Ward 23, 4 three-st'y frame dwells., flat roofs, 23.6' x 40'; owner and builder, J. W. Priesing.
Unnamed St., off Newhall St., near Ashmont St., Ward 24, frame dwell., 17' x 27'; owner, D. T. Hurley; builder, E. Ramsdell.
Nonquit St., near Dudley St., Ward 20, two-st'y brick dwell., flat roof, 21' x 35'; owners, F. M. & A. G. Frost; builder, C. Boulterhouse.
Chicago, Ill.—Iver Anderson, ten cottages, 3208-3236 Leavitt St.; cost, \$11,000.
M. Kraf, cottage, 3280 Archer Ave.; cost, \$1,200.
C. P. Mitchell, 4 two-st'y dwells., 437-443 Thirty-eighth St.; cost, \$13,000.
Mrs. M. Deersbach, three and two-st'y dwell., 443 Sedgwick St.; cost, \$6,000.
John Retkowskie, cottage, 84 Crawford Ave.; cost, \$1,400.
Frank Waldo, cottage, 1065 North Robey St.; cost, \$1,400.
W. H. Pruyn, 2 three-st'y dwells., 3239-3241 Vernon Ave.; cost, \$16,000.
J. S. Smith, three-st'y dwell., 3122 Vernon Ave.; cost, \$8,900.
C. M. More, cottage, 315 Wilson St.; cost, \$1,400.
Derofup, cottage, 879 Otto St.; cost, \$1,000.

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H. Hine, two-st'y dwell., 1107-1109 Aberdeen St.; cost, \$2,500.
Denver, Col.—Colfax Ave., cor. Clarkson St., two-st'y brick dwell.; cost, \$13,000; owner, J. S. Appel; architects, F. E. Edbrooke & Co.
Seventeenth Ave., near Ogden St., two-st'y pressed-brick dwell.; cost, \$10,000; owner, J. N. Appel; architects, F. E. Edbrooke & Co.; contractors, Brown Contracting Co.
Grand Rapids, Mich.—Mrs. Mills, dwell., College Ave.; cost, \$6,000; architect, J. H. Daverman.

BUILDING INTELLIGENCE.

Fred D. Mills, dwell., Paris Ave.; cost, \$4,000; architect, W. G. Robinson.
C. M. Ayer, dwell., Norris Ave.; cost, \$4,000; architect, S. J. Osgood.
Joel Collins, dwell., Kellogg St.; cost, \$3,000; architect, W. G. Robinson.
Holyoke, Mass.—W. L. Loomis, cottage, West Hampton St.; cost, \$1,800; builder, C. Bombard.
Mrs. E. H. Bougeois, dwell., Eastern Ave.; cost, \$2,600; mason, W. H. Reid; carpenter, E. H. Bougeois.

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BUILDING INTELLIGENCE.

Herbert E. Maine, two frame dwells., Chapin Ave.; cost, \$6,000.
Geo. Clapp, frame dwell., Francis St.; cost, \$3,000.
Dexter B. Cheever, dwell., cor. Durfee and Groton Sts.; cost, \$2,600; builder, J. K. Harris.
Maria B. Fleming, frame dwell., Tallon St.; cost, \$1,600; contractors, Watts Bros.
Henry Moebus, frame dwell., cor. Sears and Rangely Sts.; cost, \$2,500; builders, Watts Bros.
Annie Brennan, frame dwell., Atwells Ave.; cost, \$2,000; builders, Watts Bros.
Frank Murray, frame dwell., cor. Regent and Robins Sts.; cost, \$800.
Calvin Howes, two-sty dwell., Pleasant St.; cost, \$2,500; builder, L. B. White.

New York, N. Y.—One Hundred and Sixty-eighth St., s. s. 150' w Tenth Ave., 3 three-sty brick dwells.; cost, \$18,000; owners, Welcker & Peters, 103 West One Hundred and Third St.; architect, Charles M. Young, One Hundred and Sixty-eight St. and Tenth Ave.

Eightieth St., n. s. 368' 9" w Ninth Ave., 3 three-sty brick dwells., tin roofs; cost, \$33,000; owner, Michael Giblin, 136 West Ninety-fourth St.; architect, George A. Bagge, 351 West Fifty-third St.

Philadelphia, Pa.—Kates St., Nos. 1803-1805, 2 two-sty dwells.; contractor, R. T. Rauschong, 1322 Passyunk Ave.

Duval St., s. s. e Hancock St., 4 three-sty dwells.; contractor, J. O. Broadbent, 314 Haines St.
Front St., w. s. n Loudon St., 2 two-sty dwells.; contractor, E. K. Welch, Wyoming Ave. and Fisher's L. Station.

Horter St., n. s. e Muskgrove St., three-sty dwell.; contractors, C. R. Kohl & Bros., 45 West Johnson St.
Fairhill St., e. s. n Somerset St., 2 two-sty dwells.
Mechlin St., n. s. w Nineteenth St., 15 two-sty dwells.; contractor, C. B. Prettyman.

Hancock St., w. s. s Snyder Ave., 28 two-sty dwells.; owner, Wm. H. Messick, 331 Tasker St.
Cross St., s. s. e from Twenty-second St., 13 three-sty dwells.; owner, S. A. Fleming, 1614 South Fifteenth St.

Erms St., Nos. 2065-2067, 2 two-sty dwells.; owner, John McBride, 2082 Hull St.
Westmoreland St., s. s. w Fifth St., 3 two-sty dwells.; contractor, L. Lambrecht, 2632 Lawrence St.

Humboldt St., n. s. w H St., two-sty dwell.; owner, Geo. Watson, 3014 D St.

Hutton St., e. s. n Parrish St., 12 two-sty dwells.; owner, A. J. Hart, 621 Wharton St.
Philip St., e. s. n Susquehanna Ave., 8 two-sty dwells.; contractor, D. C. Schuler, 2327 North Sixth St.

Edgemont St., s. s. w Lefebvre St., 2 two-sty dwells.; contractor, Amos R. Crosta, 4536 Salmon St.

Lez St., w. s. s Seneca St., 6 two-sty dwells.; owner, F. T. Dickson, 513 Girard Building.

Hanson St., e. s. s Woodlawn Ave., 10 two-sty dwells.; owner, W. S. P. Shields, 735 Walnut St.
Nineteenth St., e. s. s Morris St., 6 two-sty dwells.; contractor, Wm. Seeburger, 1256 South Fifty-second St.

Merrion Ave., w Forty-seventh St., 6 two-sty dwells.; contractor, Chas. Bateson, 848 Markoe St.
Hope St., s. s. Tioga St., 10 two-sty dwells.; contractor, H. Barracough, 3231 North Front St.

Somerville, Mass.—Green St., frame dwell., 25' x 33'; owner and builder, Robert H. Colluppy.

Richland St., frame dwell., 23' x 33'; owner, Lucy A. Kendall; builders, M. O. Snow & Co.

Delaware St., frame dwell., 21' x 27'; owners, Morgan & Wentworth; builder, Willard L. Glidden.

Rush St., frame dwell., 21' x 31', with L. 16' x 17'; owner, Isaac Rich; builder, M. K. Norwood.

Springfield, Pa.—J. H. Reilly, two-sty frame dwell., Carew St.; cost, \$4,000; contractors, Hotine & Record.

J. Strong, Jr., frame dwell., Hebron St.
W. H. Dexter, two frame dwells., Worthington St.
Hing & Harman, four-sty block, Worthington St.; contractor, L. B. Freeman.

C. H. Dean, frame dwell., King St.
Henry Stacy, frame dwell., King St.
C. F. Casey, frame dwell., Brown St.; cost, \$2,500; builder, C. H. Annable.

St. Paul, Minn.—Harriet Broadbent, five-sty brick dwell., Laurel Ave., bet. St. Albans and Groton Sts.; cost, \$60,000.

W. R. Hawthorne, three-sty frame dwell., Chicago St., near Dakota St.; cost, \$15,000.

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B. Harris, three-and-one-half-sty frame double dwell., Mendota St., near Dawson St.; cost, \$7,000.
Walter Gibbons, two-sty frame dwell., Dale St., near Rondo St.; cost, \$12,000.

Worcester, Mass.—Autumn St., two-sty frame dwell.; builder, C. A. King.

Perry Ln., cottage; owner, J. S. Perry; builder, W. O. Burn.

Park Ave., frame dwell.; owner and builder, C. A. King.

Two-sty frame dwell.; owner, J. McIntyre; builder, Alfred Bedford.

OFFICE-BUILDINGS.

Denver, Col.—Champa St., cor. Seventeenth St., nine-sty Pikes Peak red sandstone office building; cost, \$500,000; architects, Andrews, Jaques & Rantoul.

Glenarm St., cor. Sixteenth St., seven-sty office and store Lava stone building; cost, \$250,000; owner, C. V. N. Kittredge; architect, A. M. Stuckert; contractors, Hayes & McGilvray.

Philadelphia, Pa.—Thirteenth St., No. 15, one-sty office; contractor, Wm. C. McPherson, 325-327 Cherry St.

Ninth St., n. w. cor. Oxford St., one-sty office; owner, L. W. Graver, Ninth and Oxford Sts.

Ninth St., n. w. cor. Oxford St., one-sty office; owner, L. K. Graver, n. w. cor. Ninth and Oxford Sts.

Market St., Nos. 113-115, one-sty office; contractor, George L. Harvey, Girard Building.

PUBLIC BUILDINGS.

Camilla, Ga.—Court-house, to cost \$15,000, will be built; architects, Bruce & Morgan, Atlanta, Ga.

New York, N. Y.—Forty-ninth St., n. w. cor. Lexington Ave., one-sty pavilion, peak, metallic and shingle roof; cost, \$6,000; owners, Women's Hospital State of New York, 111 Broadway; architect, John E. Terhune, 635 Broadway.

Twenty-seventh St., s. s. 100' w Sixth Ave., new house of reception; owners, New York Juvenile Asylum.

SCHOOL-HOUSES.

Cameron, Tex.—School-house, to cost \$15,000, will be built.

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STABLES.

Baltimore, Md.—J. Regester & Sons, two-sty brick
stable, w s Carter Alley, s North Ave.
Thos. Cook, two-sty brick stable, s s 10-foot Alley,
s Presburg St., bet. Mount St. and Vincent Alley.
Henry Newman, two-sty brick stable, s s Balti-
more St., bet. Gilmore and Stricker Sts.

Boston, Mass.—Gordon Pl., rear, near Adams St.,
No. 234, Ward 24, one-sty frame stable, 20' x 30';
owner, Jason Gordon; builder, J. H. Wilder.

Chicago, Ill.—J. E. Gillespie, two-sty livery stable
and dwell., 1020-1022 Harrison St.; cost, \$6,000.

New York, N. Y.—Forty-third St., n s, near Second
Ave., five-sty brick livery stable; cost, \$25,000;
owner, Joshua T. Gibbs; architect, B. W. Berger.

Philadelphia, Pa.—Allegheny Ave. and Damon
St., one-sty stable; owner, John Welsh, Allegheny
Ave. and Damon St.

Reese St., No. 2343, two-sty stable; contractor, H.
G. Schultz, 2633 Germantown Ave.

Point Breeze Ave., No. 1027, two-sty stable; con-
tractor, W. W. Dickhart, 1231 South Fifth St.

Sixty-third St., n e cor. Hamilton St., one-sty
stable.

Warren St., s s e Thirty-eighth St., two-sty
stable; owner, J. W. Helfrich, 307 North St.

Thompson St., n s e Thirty-first St., one-sty
stable; contractor, Philip Haibach, Twenty-sixth
and Thompson Sts.

Morris St., n s w Nineteenth St., one-sty stable;
contractor, J. E. McKinney, 1615 South Nineteenth
St.

Ingram St., No. 2731, two-sty stable; owner, John
C. O'Keefe, 1216 South Twenty-seventh St.

Manheim St., n s w Germantown Ave., two-sty
stable and shop; contractor, R. P. Evans, Manheim
and Knox Sts.

Lex St., e s w Brown St., two-sty stable and one-
sty storehouse; contractor, Wm. Biern, Forty-
fourth St. and Westminster Ave.

Somerville, Mass.—Oliver St., No. 5, frame stable
for two horses, 16' x 22'; owner, John Wilson.

STORES.

Chicago, Ill.—L. F. Shanowski, three-sty store and
dwell., 782 West North Ave.; cost, \$10,000.

George P. Stoneham, three-sty stores and flats,
317 Ogden Ave.; cost, \$6,000.

Philip Willis, two-sty store and dwell., 1464 Thir-
ty-fifth St.; cost, \$2,500.

C. Eismueller, 2 two-sty stores and flats, 898-900
California Ave.; cost, \$9,000.

John Meehan, two-sty store and dwell., 3667
Archer Ave.

Detroit, Mich.—F. F. Sommers, 3 three-sty brick

JACKSON ARCHITECTURAL IRON WORKS,
ESTABLISHED 1840.

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Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams,
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gineering Purposes.

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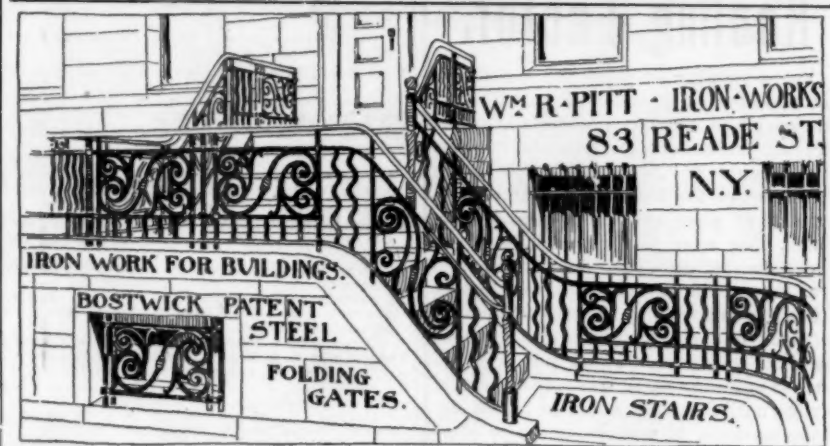
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BUILDING INTELLIGENCE.

stores and dwells., 887-889 Grand River Ave.; cost,
\$5,000.

E. L. Cole, 2 three-sty brick stores and dwells.,
775-777 Third Ave.; cost, \$5,000.

Lawrence, Mass.—Five-sty brick and iron store and
office-building will be built on Essex St. for the
heirs of K. C. Gleason; cost, \$32,000; architects,
Gray & Fitch.

New York, N. Y.—West Broadway, three-sty brick
store, tin roof; cost, \$6,000; owner, Philip Mc-
Dowell, 214 Ninth Ave.; architect, M. C. Merritt,
1267 Broadway.

Philadelphia, Pa.—Passyunk Ave., w s s Mifflin
St., 3 two-sty stores and dwells.; owner, Hugh Mc-
Neill, Ninth St. and Passyunk Ave.

Federal St., No. 1705, two-sty store; contractor,
C. B. Prettyman, 1202 South Twentieth St.

Pittsfield, Mass.—Kennedy & McInness, five-sty
store and office-building, North St.

St. Louis, Mo.—Two-sty brick store and dwell.;
cost, \$3,500; owner, F. R. Parsons; contractors,
Bothe & Raterman.

Two-sty brick store and dwell.; cost, \$4,700;
owner, C. Patton; contractor, H. Ellerman.

Three-sty brick store and dwell.; cost, \$3,000;
owner, H. M. Smith; contractor, J. Leitner.

TENEMENT-HOUSES.

Holyoke, Mass.—Lawrence O'Neil, tenement-block;
cor. Appleton and Walnut Sts.; architect, Ellis-
worth.

New York, N. Y.—West One Hundred and Thirty-
sixth St., No. 208, four-sty tenement, tin roof; cost,
\$10,000; owner, E. C. Butcher, 250 West One Hun-
dred and Thirty-third St.; architect, F. G. Butcher,
247 West One Hundred and Twenty-fifth St.

Intervale Ave., w s s, 330' n One Hundred and Sixty-
seventh St., three-sty brick tenement, tin roof;
cost, \$5,000; owner, Charles Spangler, 2019 First
Ave.; architect, Alfred Wm. Farnwall, 83 Main
St., Astoria, N. Y.

West Forty-seventh St., No. 540, five-sty brick
tenement, tin roof; cost, \$14,000; owner, Alexander
Moore, 316 West Fifty-first St.; architect, George
Keister, 55 West Thirty-third St.

St. Paul, Minn.—Paul Gadbois, two-sty brick
vener tenement, Bidwell St., near Congress St.;
cost, \$11,000.

BUILDING INTELLIGENCE.

Worcester, Mass.—North Merrick St., three-sty
frame tenement; owner, T. E. Noyes.

THEATRES.

New York, N. Y.—One Hundred and Twenty-fifth
St., 100' w Lexington Ave., theatre; cost, \$200,000;
owner, Oscar Hammerstein; architects, J. B. Mc-
Elfatrick & Son.

WAREHOUSES.

Athol, Mass.—Stratton Bros. & Co., warehouse.

Baltimore, Md.—Straus Bros. will build six-sty
brick warehouse, n e cor. Lombard and Paca Sts.

New York, N. Y.—Twenty-seventh and Twenty-
eighth Sts. and Eleventh and Twelfth Aves., six-sty
brick warehouse; owners, Terminal Warehouse Co.

MISCELLANEOUS.

Boston, Mass.—Huntington Ave., south side, near
Parker St., Ward 22, two-sty brick mechanical
building, flat roof, flat roof, 32' x 50'; owner, Ruth
H. Tomson.

Congress St., No. 332, Ward 13, six-sty brick stor-
age, flat roof, 40' x 100'; owners, Boston Wharf Co.
G St., near East Eighth St., Ward 14, three-sty
brick engine-house, flat roof, 30' x 50'; owners, Sul-
folk Brewing Co.

Chicago, Ill.—R. King, two-sty barn, 222 North
Union St.; cost, \$2,500.

Frank Barrett, basement, 713 Orchard St.; cost,
\$1,600.

Kroeschell Bros., boiler-house, Erie St.; cost, \$8,-
000; architects, Frommen & Johnson.

T. K. Webster, one-sty elevator, Madison and
Rockwell Sts.; cost, \$10,000; architect, Metcalf.

Detroit, Mich.—Gordon W. Lloyd, veterinary barn
for Dr. Brenton, cor. Lafayette and Fifth Sts.; cost,
\$8,000.

New York, N. Y.—On docks at One Hundred and
Fifty-ninth St. and Eighth Ave., one-sty brick and
iron engine and boiler house, peak iron roof; cost,
\$7,000; owners, Manhattan Railway Co., 71 Broad-
way; builders, J. B. and J. M. Cornell, 141 Centre
St.

East One Hundred and Third St., Nos. 401-403,
one-sty brick workshop, gravel roof; cost, \$3,000;
owner, Caroline Hanlin, 120 East Ninety-second St.;
architect, H. G. Hubert, One Hundred and Thirty-
eighth St. and Railroad Ave.

Iron-Work.

RUSTLESS IRON.

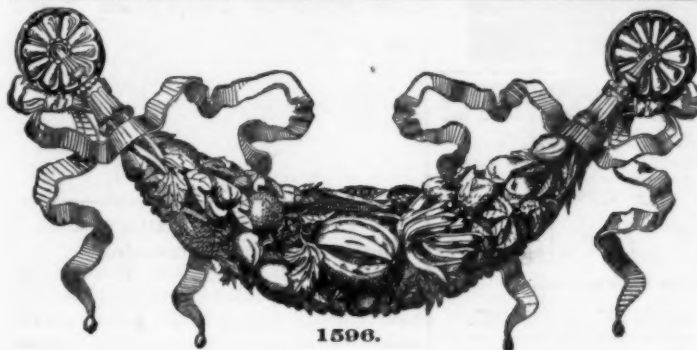
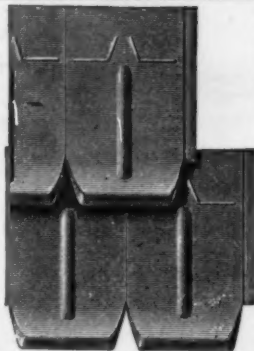
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Catalogues on Application.

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PROPOSALS.

December 30, 1889. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 8th day of February, 1890, for the erection and completion of a wharf, coal bin, revetment, etc., for the United States Jump Revenue Station, Plaquemine Parish, La., in accordance with drawings and specification, copies of which may be had on application at this office or the office of the Superintendent, Charles G. Johnson, United States Custom-house, New Orleans, La. Each bid must be accompanied by a certified check for \$200. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not strictly comply with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect. 733

December 28, 1889. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 8th day of February, 1890, for furnishing the labor and materials, and putting in place complete the steel linings, including doors for two vaults required for the United States Mint Building at San Francisco, Cal., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent of the Mint. Each bid must be accompanied by a certified check for \$200. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not strictly comply with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect. 733

December 27, 1889. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 28th day of January, 1890, for all the labor and material required to fix in place complete the low-pressure, return-circulation steam-heater and ventilating apparatus, including power boiler and connections for the United States Post-office, etc., building at St. Joseph, Mo., in accordance with drawings and specification, copies of which may be had on application at this office and the office of the Superintendent. Each bid must be accompanied by a certified check for \$200. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not strictly comply with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect. 733

PROPOSALS.

METAL-WORK.

[At Charlotte Harbor, Fla.]
OFFICE OF THE LIGHT-HOUSE ENGINEER,
SEVENTH DISTRICT,
NEW ORLEANS, LA., December 6, 1889.

Proposals will be received at this office until 12 o'clock, noon, of Wednesday, the 15th day of January, 1890, for furnishing the material and labor of all kinds necessary for the completion and delivery of the metal-work of the screw-pile light-house at Charlotte Harbor, Fla.

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.

W. L. FISK,
Captain of Engineers, U. S. Army, Light-House Engineer Seventh District. 732

HARD BRICKS.

[At Rock Island, Ill.]
ROCK ISLAND ARSENAL,
ROCK ISLAND, ILL., December 16, 1889.

Sealed proposals, in triplicate, for delivering at this arsenal 550,000 hard-burnt bricks for the arches of the water-power dam wall, will be received until 1 o'clock P. M., on Thursday, January 16, 1890. The dimensions of brick preferred are 8½ x 4½ x 2½ inches.

Each bidder must submit a sample of the bricks he proposes to furnish, and the bricks delivered will be inspected by this sample.

Bidders must state the rate per week or month at which they can deliver the bricks, and when they can begin deliveries.

The successful bidder must execute a formal contract, with bond, within ten days after receiving notice of the acceptance of his bid.

The United States reserves the right to reject any or all bids.

Bids should be enclosed in sealed envelopes marked "Proposals for Bricks."

Full information and the blanks on which proposals must be made can be had from

JAMES M. WHITEMORE,
Colonel, Ordnance Department, U. S. Army, Commanding. 732

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N. CHENEY. } OFFICE: { 301 BROADWAY,
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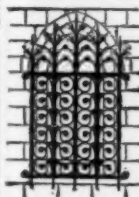
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PROPOSALS.

ELECTRIC-LIGHTING PLANT.[At New York, Y. Y.]
BUREAU OF YARDS AND DOCKS,
NAVY DEPARTMENT.

WASHINGTON, D. C., December 14, 1889. Sealed proposals, in duplicate, indorsed "Proposals for Electric-Lighting Plant for New York Navy Yard," will be received at this Bureau until 11 o'clock A. M. on Tuesday, January 14, 1890, and publicly opened immediately thereafter.

Specifications and blank forms of proposals will be furnished, and plan of the yard may be examined, upon application to the commandant of the New York Navy Yard or the Bureau.

Responsible security will be required for the faithful performance of the contract, and the right is reserved to reject any or all proposals not deemed advantageous to the Government and to waive defects.

A bond for the sum of \$2,000 must accompany bids for the work.

G. B. WHITE,
Chief of Bureau. 733

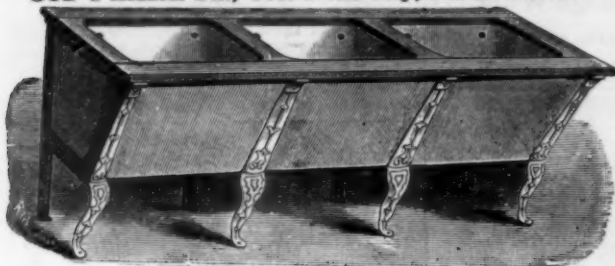
OFFICERS' QUARTERS.[At Key West, Fla.]
BUREAU OF YARDS AND DOCKS,
NAVY DEPARTMENT.

WASHINGTON, D. C., December 14, 1889. Sealed proposals, in duplicate, indorsed "Proposals

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STEWART CERAMIC COMPANY,

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WELL GLAZED.

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WHEEL HANDLE
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Stebbins Mfg. Co., SPRINGFIELD, MASS.
SOLE MANUFACTURERS.

PROPOSALS.

for Construction of Officers' Quarters at Key West," will be received at this Bureau until 11 o'clock A. M. on Tuesday, January 14, 1890, and publicly opened immediately thereafter.

Specifications, plans and blank forms of proposals will be furnished upon application to the commandant of the United States Naval Station, Key West, Fla.

Responsible security will be required for the faithful performance of the contract, and the right is reserved to reject any or all proposals not deemed advantageous to the Government and to waive defects.

The bidders' bond will be 15 per cent of the amount of their proposal for the work.

733

G. B. WHITE,
Chief of Bureau.

METAL-WORK.

[At Charlotte Harbor, Fla.]

OFFICE OF THE LIGHT-HOUSE ENGINEER,
SEVENTH DISTRICT,
NEW ORLEANS, LA., December 6, 1889.

Proposals will be received at this office until 12 o'clock, noon, of Wednesday, the 15th day of January, 1890, for furnishing the materials and labor of all kinds necessary for the completion and delivery of the metal-work of a light-house and assistant keeper's dwelling for Charlotte Harbor Light Station, Fla.

PROPOSALS.

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 defects.
W. L. FISK,
Captain of Engineers, U. S. Army, Light-House Engineer, Seventh District.

732

EXTENSION OF TIME.

The time for submitting proposals for cut-marble for Massachusetts State-House extension has been extended to January 14th, 1890.

733

JOHN D. LONG,
B. D. WHITCOMB,
WM. ENDICOTT, JR.

PENITENTIARY.

[At Boise City, I. T.]

DEPARTMENT OF THE INTERIOR,
WASHINGTON, December 5, 1889.

Sealed proposals for furnishing the material and labor required in the completion of the United States penitentiary at Boise City, Idaho, will be received at this Department until 12 o'clock M., Wednesday, January 15, 1890, when they will be opened.

Plans and specifications, instructions to bidders, etc., may be seen at this Department and at the office of the Governor of the Territory at Boise City.

733

GEO. CHANDLER,
Acting Secretary.

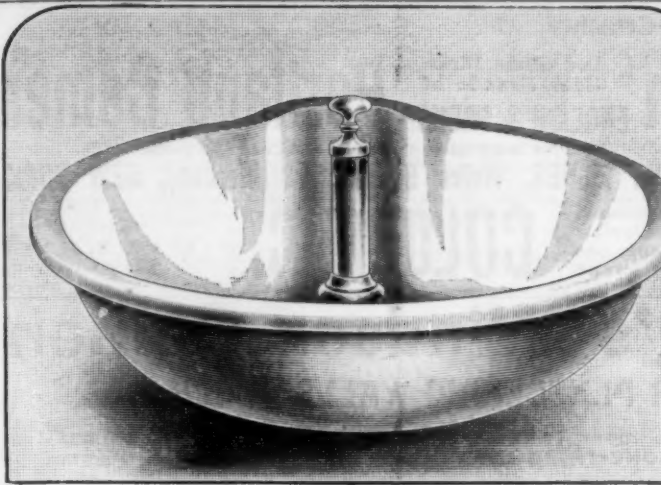


Plate 843—G. The "SIMPLEX" Recess Basin and Waste. (Patented.)

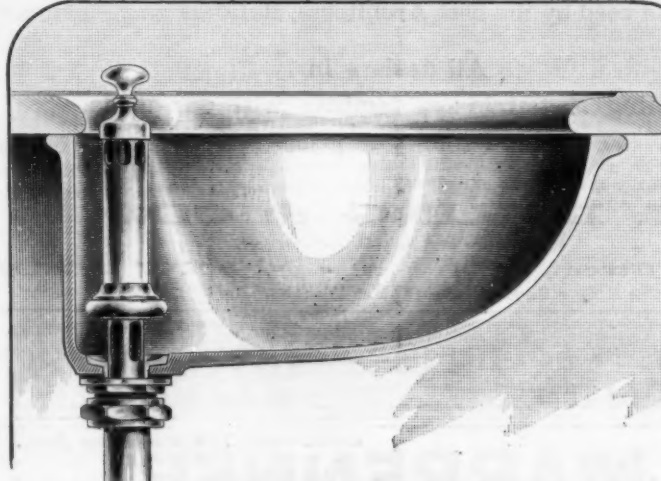


Plate 844—G. Cross Section of "Simplex" Recess Basin, showing Waste raised as when water is being let out of Basin.

Copyright, 1888, by The J. L. Mott Iron Works.

THE J. L. Mott Iron Works,

86, 88 and 90 Beekman Street,

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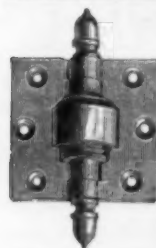
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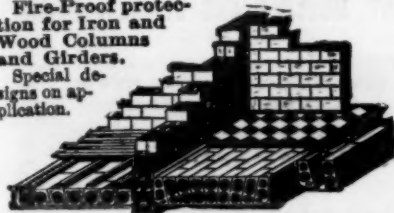
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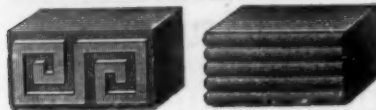
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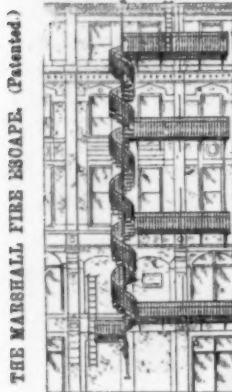
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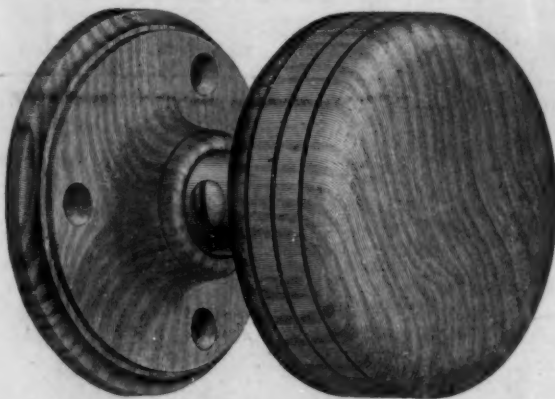
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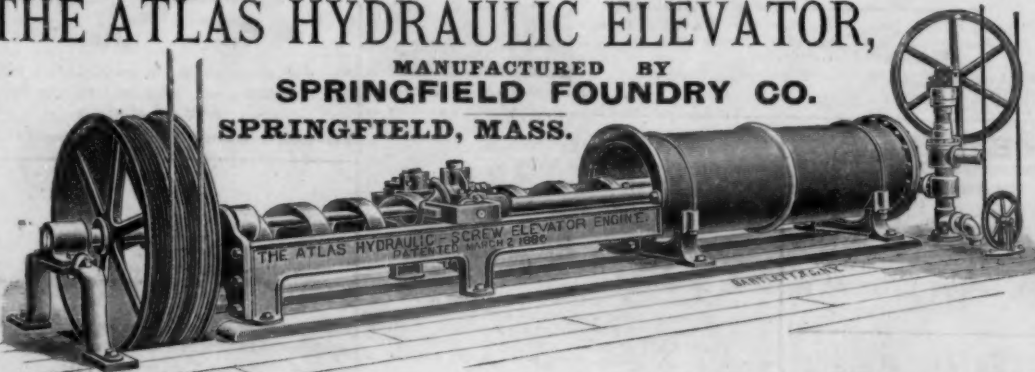
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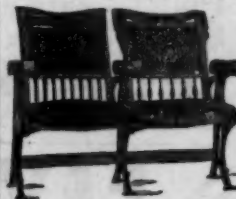
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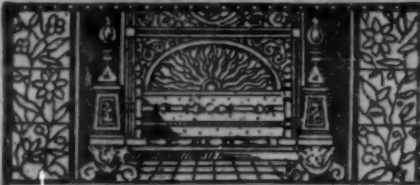
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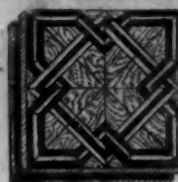



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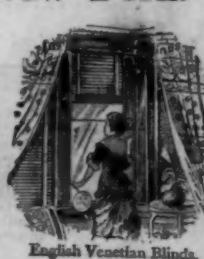
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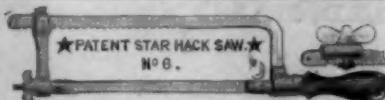
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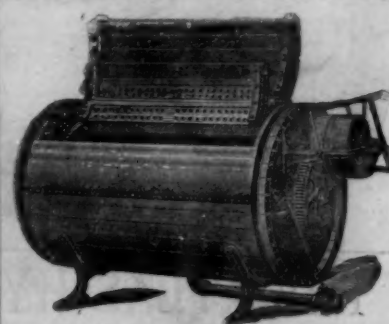
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3/4 inch	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25
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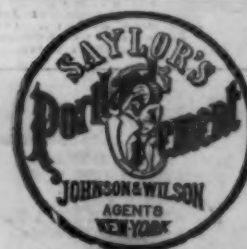


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Boards: (Ordinary dimensions.)				
Pine, 1st quality, clear.....	55 00 @ 75 00	50 00 @ 60 30	47 00 @ 48 00	48 00 @ 55 00
" 2d quality, clear.....	55 00 @ 60 00	42 00 @ 50 00	43 00 @ 45 00	40 00 @ 45 00
" 3d quality.....	18 00 @ 22 00	35 00 @ 40 00	39 00 @ 41 00	30 00 @ 35 00
Spruce.....	18 00 @ 25 00	12 00 @ 15 00	Not sold.	16 00 @ 20 00
Hemlock.....	ea 13 00 @ 14	13 00 @ 15 00	12 00 @ 12 00	11 25 @ 15 50
Yellow pine.....	20 @ 40	25 00 @ 35 00	21 00 @ 21 00	14 00 @ 20 00
Cypress.....		32 00 @ 40 00		35 00
Clapboards:				
Pine.....		40 00 @ 60 00	10 00 @ 21 00	14 00 @ 25 00
Spruce.....		25 00 @ 45 00	Not sold.	Not sold.
Framing Timber:				
Pine.....	14 00 @ 18 00	15 50 @ 18 00	14 00 @ 15 30	25 00 @ 37 30
Spruce.....	12 00 @ 16 00	12 50 @ 15 00	Not sold.	16 00 @ 18 00
Hemlock.....	18 00 @ 21 00	24 00 @ 35 00	10 00 @ 13 00	13 00 @ 1 00
Yellow pine.....				22 00 @ 28 00
Laths:				
Pine.....	@ 2 30	2 25 @ 2 35	@ 2 20	2 75 @ 3 00
Spruce.....		2 25 @ 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 05 @ 2 90	
Spruce, sawed.....	1 50 @ 2 00	1 50 @ 00	Not sold.	
Redwood..... P. 12	1 40 @ 1 60	3 75 @ 4 00	6 00 @ 7 50	30" @ 35 @ 40
Cedar, split..... P. M.			Not sold.	24" @ 8 @ 21
Cedar, sawed.....		2 00 @ 4 00	2 10 @ 2 30	20" @ 25 @ 14
Cypress, Split..... 7 x 24.	18 00 @ 20 00	5 00 @ 6 00	3 10 @ 4 00	11 00 @ 14 00
Miscellaneous:				
Piles..... P. ft.	4 1 @ 5 4	Piles 60. P. ft.	Cut to order.	9 00 @ 13 00
Fence pickets, Commo.....	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 18 00	4 1 @ 1 25
Cedar posts, 9 ft. (sq. posts.).....		25 @ 50	9 @ 21	20 @ 30
Chestnut.....		25 @ 50	Not sold.	
Finishing Woods: P. M. (First Qual.)				
Ash.....	@ 55 00	45 00 @ 60 00	35 00 @ 40 00	45 00
Cherry.....	80 00 @ 120 00	65 00 @ 120 00	85 00 @ 110 00	75 00 @ 80 00
Butternut.....	40 00 @ 60 00	60 00 @ 70 00	50 00 @ 55 00	70 00 @ 80 00
Hard-pine floors (rift).....		48 00 @ 50 00		
Mahogany, Baywood (Mexican).....	@ 180 00	150 30 @ 160 00	150 00 @ 180 00	150 00 @ 250 00
" St. Domingo.....	@ 350 00	120 00 @ 350 00	220 00 @ 250 00	200 00 @ 400 00
Maple.....	45 00 @ 50 00	45 00 @ 50 00	25 00 @ 35 00	25 00 @ 55 00
Oak, red.....	@ 70 00	@ 50 00	32 00 @ 40 00	45 00 @ 55 00
" white.....	@ 70 00	50 00 @ 55 00	35 00 @ 40 00	45 00 @ 55 00
" quartered.....	@ 90 00	65 00 @ 80 30	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered.....		50 00 @ 65 00	35 00 @ 45 00	57 00 @ 65 00
Pine, clear.....	65 00 @ 70 00	50 00 @ 75 00	45 00 @ 50 00	65 00 @ 75 00
Redwood.....	60 00 @ 70 00	60 00 @ 70 00	55 00 @ 60 00	60 00 @ 75 00
Rosewood..... P. B.		50 00 @ 52 00		
Spruce floors (clear, kiln-dried).....	125 00 @ 150 00	80 00 @ 120 00	90 00 @ 110 00	50 00 @ 170
Walnut, black.....	45 00 @ 50 00	40 00 @ 45 00	30 00 @ 35 00	25 00 @ 40 00
Whitewood.....	@ 45 00	40 00 @ 42 00	25 00 @ 30 00	27 50 @ 45 00
Yellow pine..... P. M.				

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Black, brown, buff	2 1/2			
Colorado	2 1/2			
Red	3			
White	1 75			
Foundation:				
Block		5 00 per ton	20	5 00
Rubble		4 00 per perch	8 50	1 45
125		1 50		2 50
Granite: (per 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 @ 90		95 @ 1 16
Kibbe	90	90 @ 1 10		1 05 @ 1 35
Brown (Connecticut)	1 00 @ 95	1 25 @ 1 45	1 50 per cu. ft.	85 @ 1 00
Amherst	90 @ 95	90 @ 1 00	45 @ 50	
Berea Ohio	75 @ 1 00	80 @ 90	45 @ 55	
Berlin	75 @ 1 00	80 @ 90	55 @ 65	
Bellefonte	80 @ 1 25	1 25 @ 1 35	1 25	1 10 @ 1 4
New Brunswick (Dorchester)	1 00	75 @ 90		1 00 @ 1 1
Osage		75 @ 90		1 25 @ 1 5
Carlisle, English	1 05	1 05		95 @ 1 1
Corso Hill (Scottish)	1 05	1 05		
Marble (per cu. ft.)				
Lee, Mass.	1 00	1 75 @ 2 50	Not sold.	3 00 @ 2 50
Statland, white and blue	1 25 @ 1 75	3 00	3 50 @ 6 00	2 00 @ 3 00
Sutherland Falls		2 00	3 50 @ 6 00	1 70 @ 3 00
Glens Falls, black		2 00 @ 3 00	Not sold.	4 00 @ 4 50
Italian, blue-veined		3 00 @ 6 00	Not sold.	2 50 @ 2 75
" Siena		3 00 @ 8 50	Not sold.	4 00 @ 5 00
Tennessee, red		1 25 @ 2 50	Not sold.	4 00 @ 6 00
" Knoxville		85 @ 90	Not sold.	3 00 @ 4 00
Pennsylvania, blue		1 50 @ 2 00	Not sold.	2 00 @ 3 00
Vermont, white			3 50 @ 6 00	2 25 @ 3 00
Slates: Roofing (per square).				
" green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 8 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	7 50 @ 10 25
" black, Lehigh			6 25 @ 8 85	3 25 @ 4 00
" Chapmans			7 30 @ 8 00	4 00 @ 4 65
" Unfading Black, Monson, Me.	5 50 @ 6 00	5 50 @ 6 00	6 00 @ 9 00	5 50 @ 8 00
Tiles, Am.			Not sold.	6 00 @ 25 00
N. Peach Bottom, warranted unfading				6 00 @ 6 75
PAINTS. (In oil, per lb.)				
White lead, Am.	7 00 @ 7 1	7 1	6 1	7
" Zinc	5 00 @ 7	7 1	7	10 1/2
Red lead, Am.	6 1	7 1	7 1	7
" Venetian	6 1	7 1	7 1	7
" Vermilion	6 1	7 1	7 1	7
Red Indian, Eng.	12 00 @ 15	12 00 @ 15	12 00 @ 15	12 00 @ 15
Yellow Ochre	12 00 @ 15	12 00 @ 15	12 00 @ 15	12 00 @ 15
" Chrome	12 00 @ 15	12 00 @ 15	12 00 @ 15	12 00 @ 15
Green, Paris	25 00 @ 40	25 00 @ 40	25 00 @ 40	25 00 @ 40
Black, lamp	15 00 @ 25	15 00 @ 25	15 00 @ 25	15 00 @ 25
Slate, ultramarine	12 00 @ 18	12 00 @ 18	12 00 @ 18	12 00 @ 18
Oil, linseed, (raw)	57 00 @ 62	57 00 @ 62	57 00 @ 62	57 00 @ 62
" boiled	60 00 @ 65	60 00 @ 65	60 00 @ 65	60 00 @ 65
Turpentine	45 00 @ 46	45 00 @ 46	45 00 @ 46	45 00 @ 46
Varnish, coach				
Shellac				
Putty				
Whiting				
Paris white, (Eng.)				
Litharge, Am.				
Siena (burnt)				
Umber				
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought.)				
1st. common	2 85	2 30	2 15	2 25
Shingle	2 85	2 30	2 15	2 25
Lath	4 85	3 70		
Finishing nails according to size.				
(For casing nails add 10c. per keg.)				
Butts: 4" x 4" (per doz. pairs.)				
Plain	1 00	1 30	65 @ 1 00	1 35 @ 2 00
Japanned	1 50	1 75	Not sold.	1 35 @ 2 75
Acorn, Japanned	1 50	1 75	Not sold.	48 @ 50
Ball Tip, Boston Finish	65	1 00	Not sold.	1 75
Bronze metal	1 00	1 00	2 00 @ 3 25	1 00
Brass (or sapboards)	10	10	12	35
Knob				37 @ 1 00
Apple wood				
Knobs: (per set.)				
Mineral, best	8	8	8 @ 10	Not sold.
Lava	80	75	65 @ 80	25 @ 50
Hemlock	Not sold	17 @ 83	31 @ 40	25 @ 25
Porcelain	30	10	25 @ 30	1 00 @ 2 50
Glass, solid	Not sold	50	Not sold.	1 75 @ 2 00
Glass, silvered	Not sold	88 @ 1 00	70 @ 1 50	50 @ 3 50
Bronze metal	75 @ 2 00	50 @ 3 00	1 50 @ 3 00	75 @ 1 25
Brass	1 00 @ 2 50	16 00 @ 17 00	13 00 @ 15 00	22 @ 35
Solder:				
Sheet Lead				6 @ 6
Lead Pipe				
Iron:				
I-Beams, up to and including 30 ft.	3 10 @ 3 1	3 10 @ 3 1		2 8-10
I-Beams, over 30 ft. l. t. & c. advances.	3 10 @ 3 1	3 10 @ 3 1		2 8-10
Channel Beams				2 8-10

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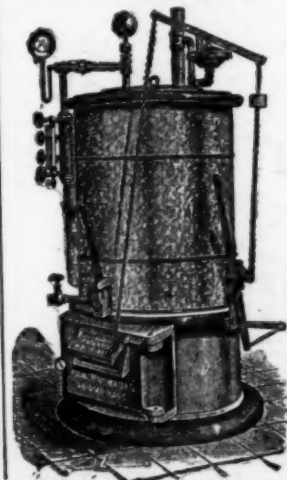
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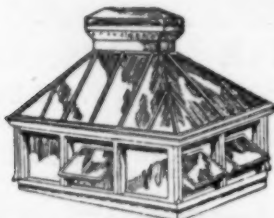
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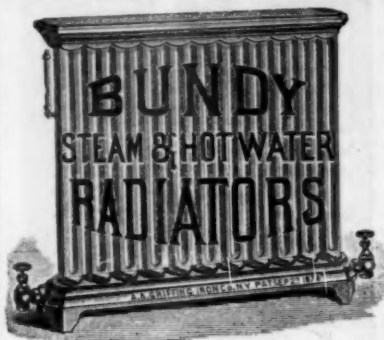
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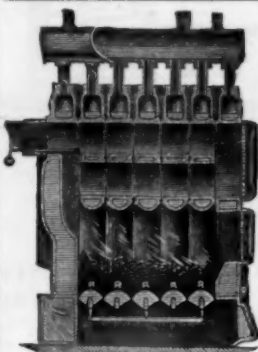
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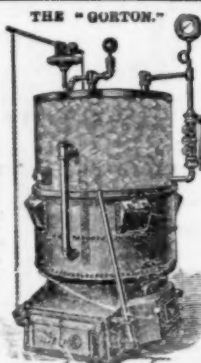
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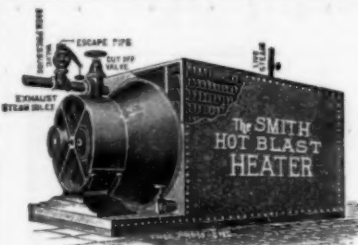
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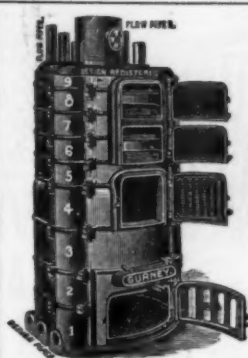


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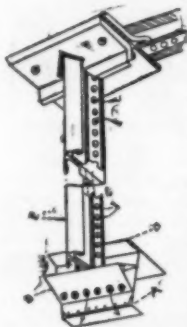
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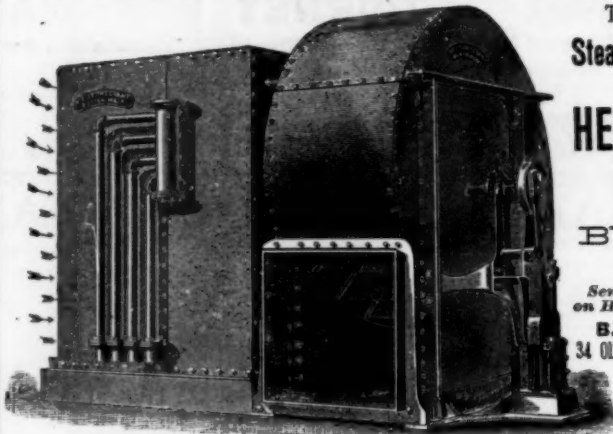
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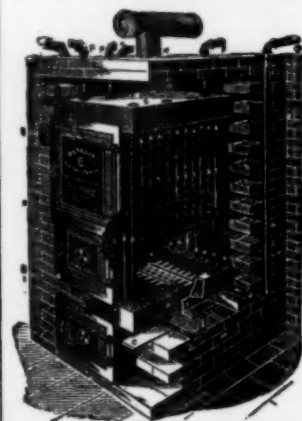
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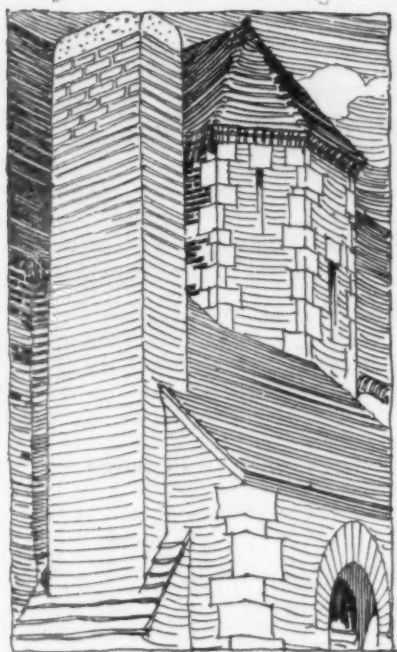
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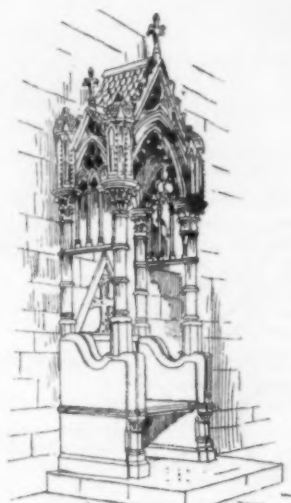


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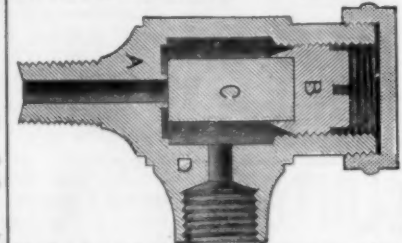
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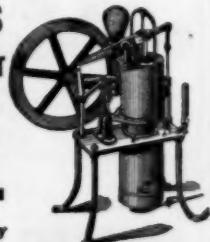
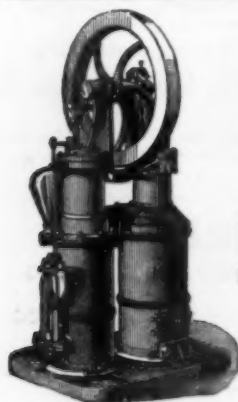
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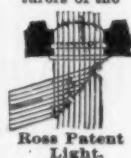
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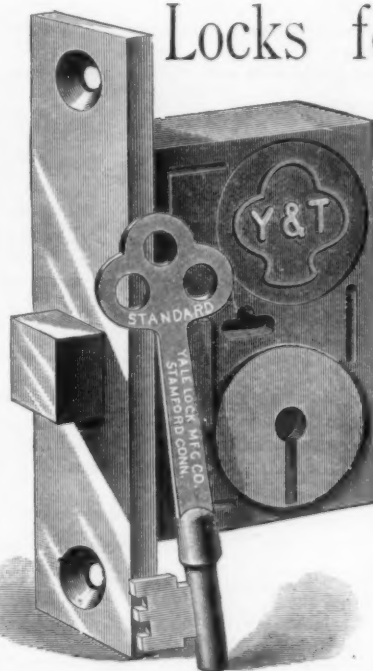
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MURPHY & CO. (Newark, N. J.), Varnish. Page xiii.
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SITUATION.—A gentleman who has had experience in superintending building construction desires a situation in an architect's office. Address "Construction," this office.
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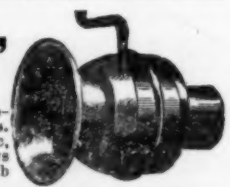
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(Reported for The American Architect and Building News.)

[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.]

ALTERATIONS.

Boston, Mass.—Pine St. and Oak Pl., Ward 12, remodel mercantile building for stores and offices; owners, Wm. F. Weld heirs.
C St., No. 98, Ward 13, alter store for dwell.

COLORADO.

Persons desiring authoritative information concerning the Agriculture, Mines, or Manufactures of Colorado; its resources, advantages, etc., with industrial and labor statistics, can receive, postage free, pamphlets, maps, etc., or answers to special inquiries, by addressing State Bureau of Immigration and Statistics, Denver, Col.

BUILDING INTELLIGENCE.

owner, Mrs. Annie Coleman; builder, James Cud-dihy.

Detroit, Mich.—Board of Education, two-story addition to Ferry School, 815 Ferry Ave.; cost, \$10,000.
Holyoke, Mass.—Wm. B. Haskins, cor. Summer

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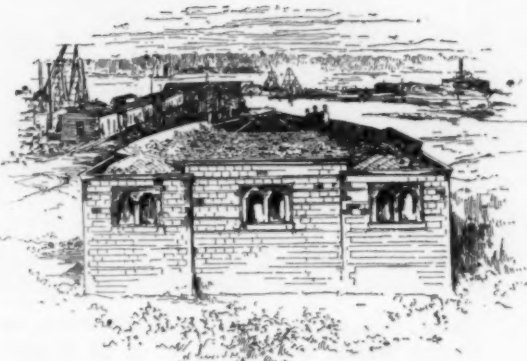
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BUILDING INTELLIGENCE.

and Meadows Sts., addition to building; cost, \$10,000.

Little Rock, Ark.—Geo. Sanders will add two more stories to his building on Second and Center Sts., and convert it into a hotel; cost, \$25,000; architects, Orlopp & Kusener.

The City Council passed an ordinance looking to the remodeling of the City-hall building, to cost abt. \$50,000.

New York, N. Y.—East Fifty-fifth St., Nos. 214-218, four-sty brick factory, extension and internal alterations; cost, \$38,000; owners, Jacob Hoffman Brewing Co., 204 East Fifty-fifth St.; architect, Franklin Baylies, 300 East Fifteenth St.

Broadway, No. 537, five-sty brick store, extensive internal alterations; cost, \$5,000; owner, J. C. Wemple estate, 537 Broadway; architects, The Q. N. Evans Construction Co., 43 Dey St.

University Pl., No. 50, three-sty brick dwell., raised and internal alterations; cost, \$6,000; owner, Emma Mittelstaedt, 5 Wooster St.; architect, William Grant, 215 Bowery.

Broadway, Nos. 466-468, six-sty brick store, internal repairs, etc.; cost, \$6,000; owner, George Bliss, 28 Nassau St.; architect, S. A. Warner, 132 Broadway.

Seventy-sixth St., s w cor. Third Ave., four-sty brick dwell., extension, etc.; cost, \$6,000; owners, Henry & David Moss, 205 East Sixty-second St.; architect, Andrew Spence, 224 Third Ave.

West Thirty-third St., No. 270, three-sty brick dwell., extension and internal alterations; cost, \$4,000; owner, John McCormack, 270 West Thirty-third St.; architect, W. H. H. Smith, 81 New St.

Broadway, Nos. 340-342, five-sty brick dwell., altered internally; cost, \$5,000; owner, Geo. Bliss, cor. Nassau and Cedar Sts.; architect, Stephen D. Hatch, 115 Broadway.

Ninth St., n w cor. Tenth Ave., 6 five-sty brick tenements, extensive internal alterations and changes; cost, \$45,000; owner, Hermann A. Bergmann, 43 West Nineteenth St.; architect, Richard R. Davis, 247 West Twelfth St.

White St., Nos. 55-57, five-sty brick store, alterations; cost, \$5,000; owner, Wm. F. Weld estate, Philadelphia, Pa.; architects, Otis Bros., 38 Park Row.

Second Ave., cor. Thirty-fifth St., four-sty brick tenement, extension; cost, \$3,000; owner, Patrick J. Maloney, 339 East Fifty-eighth St.; architects, Kurtzer & Rohl, cor. Third Ave. and Seventh St.

BUILDING INTELLIGENCE.

Grand St., No. 503, three-sty brick dwell., extension, etc.; cost, \$3,500; owner, Frederick W. Pfander, 503 Grand St.; architect, Franklin Baylies, 62 Bible House.

Lexington Ave., n e cor. Sixty-first St., 2 four-sty brick dwells., extension; cost, \$15,000; owner, Peter F. Meyer, 190 Lenox Ave.; architect, J. A. Webster, 116 East One Hundred and Twenty-fifth St.

Thirteenth St., n s 125th w University Pl., three-sty brick stable, altered internally; cost, \$3,500; owner, Catharine A. Phelps, New Rochelle, N. Y.; architect, Geo. Martin Huss, 1235 Broadway.

Seventh Ave., n e cor. One Hundred and Twenty-eighth St., two-sty brick and stone church, extension; cost, \$50,000; owners, New York Presbyterian Church, n e cor. Seventh Ave. and One Hundred and Twenty-eighth St.; architect, Richard R. Davis, 247 West One Hundred and Twenty-fifth St.

Bowery, Nos. 286-288, four-sty brick store, extension and internal alterations; cost, \$9,500; owner, August Hornman, Stapleton, Staten Island, N. Y.; architects, J. Bookell & Son, 54 Bond St.

Elizabeth St., Nos. 49-51, six-sty brick factory, extension and internal alterations; cost, \$8,000; owner, Jessie L. Van Vechten, West Brighton, N. Y.; architect, Wm. H. Hune, 2 West Fourteenth St.

East Fourteenth St., No. 148, five-sty brick dwell., extension and internal alterations; cost, \$3,000; owner, Andrew J. Smith, Rockland County, N. Y.; architects, Weber & Drosser, 71-73 Bible House.

Third St., s s 150th e Third Ave., four-sty brick dwell., raised, extension and internal alterations; cost, \$5,000; owner, Henry Timm, 32 East Third St.; architect, John C. Babcock, 64 College Pl.

Hester St., No. 87, four-sty tenement, extension and internal alterations; cost, \$3,000; owner, Morris Daubosky, 48 Hester St.; architect, Fred Ebeling, 3 First Ave.

Philadelphia, Pa.—Eleventh and Thirty eighth Sts., addition to three-sty shop; contractor, Chas. McCaul, 20 North Eleventh St.

Bainbridge St., s e cor. Twenty-first St., three-sty alteration to banking-house; contractors, Tout & McLaughlin, 317 Cook St.

Queen St., n w cor. Baird St., one-sty addition to storehouse; owner, Lawrence Laling, Queen and Baird Sts.

Pittsfield, Mass.—W. E. Tilleston, one-sty addition to mill.

Troy, N. Y.—Second St., remodeling and alterations to brick dwell., 56' x 60', with 1; owner, C. E. Pat-

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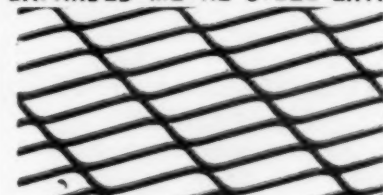
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BUILDING INTELLIGENCE.

person; contract to be let; architect, H. Langford Warren, Boston.

APARTMENT-HOUSES.

Boston, Mass.—Boylston St., Nos. 379-381, Ward 11, 2 four-sty brick apartments, flat roofs, 25' x 92'; owner and builder, W. D. Vinall.

Chicago, Ill.—G. Miller, three-sty flats, 783 North Robey St.; cost, \$5,000.

C. O. Coster, four-sty flats, Wabansia Ave., near Sheridan Ave.; cost, \$6,000.

A. C. Lundelius, three-sty flats, 450 Thirty-eighth St.; cost, \$6,000.

Henry W. Martin, 3 three-sty flats, 2314-2318 Dearborn St.; cost, \$9,000.

H. Ives Cobb, 5 four-sty flats, 2963-2971 Cottage Grove Ave.; cost, \$40,000.

L. J. Blades, two-sty flats, 203-205 Warren Ave.; cost, \$20,000.

Holland Bros., three-sty flats, 430 Austin Ave.; cost, \$13,000.

New York, N. Y.—Manhattan Ave., n e cor. Twenty-fifth St., 3 five-sty brick flats, tin roofs; cost, \$130,000; owner, Michael O. Neill, 154 East Eighty-fourth St.; architect, Jas. Henderson, 150 East One Hundred and Twenty-fifth St.

Sixty-sixth St., s s 375th w Eighth Ave., 4 five-sty brick flats, tin roofs; cost, \$80,000; owner, Margretha Schultz, n e cor. Eighty-ninth St. and Ninth Ave.; architect, George Mathias, 59 Liberty St.One Hundred and Fifth St., n s 27th w Fourth Ave. and Fourth Ave., w s 75th n One Hundred and Fifth St., 3 five-sty brick flats, tin roofs; cost, \$51,000; owner, John Bannon, 65 East One Hundred and Twenty-third St.; architect, John C. Burne, 1331 Third Ave.

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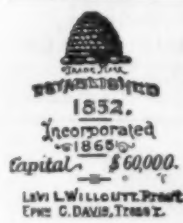
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St. Louis, Mo.—Two-st'y brick flats; cost, \$3,000; owners and contractors, P. Cavanaugh & Bro.

CHURCHES.

Denver, Col.—Ogden St., cor. Twenty-second Ave., lava stone church, red stone trimmings; cost, \$50,000; owners, Christ M. E. Church; architects, Kidder & Humphreys.

Lincoln and Twelfth Area., stone church; cost, \$10,000; owners, St. Mark's Episcopal Church; architects, Lang & Pugh.

Boulevard, cor. Agate St., frame church; cost, \$5,000; owners, St. Paul's Episcopal Church; architect, Fred. A. Hale.

Grand Rapids, Mich.—A small brick church for the Swedish Evangelical Lutheran Society to cost \$6,000; architect, W. G. Robinson; contractor, John Olsen.

New York, N. Y.—One Hundred and Sixteenth St., n s, 14th w Fifth Ave., one-st'y brick chapel, gable, slate and tin roof; cost, \$30,000; owners, Trustees of New York Presbytery, 32 Mt. Morris Ave.; architect, R. H. Robertson, 121 East Twenty-third St.

FACTORIES.

Chicago, Ill.—F. J. Haskell, four-st'y factory, 89-95 Ewing St.; cost, \$20,000.

New York, N. Y.—Fifth-third St., n s, 150th e Tenth Ave., five-st'y brick factory, tin roof; cost, \$20,000; owner, Ruth A. Wallace, Haweswood, Mass.; architect, Henry Davidson, 222 Ninth Ave.

Fifty-ninth and Sixtieth Sts., w Tenth Ave., 3 six-st'y brick factories, tin roofs; cost, \$100,000; owner, Asher J. Meyer, 2 East Eighty-first St.; architect, Albert Wagner, 67 University Pl.

St. Louis, Mo.—Three-st'y brick factory; cost, \$10,000; owner, Wm. Prufrock; sub-let.

Four-st'y brick factory; cost, \$20,000; owners and contractors, Mariette Real Estate Co.

HOTELS.

Arkansas City, Ark.—Hotel, to cost \$20,000, is contemplated by a stock company.

HOUSES.

Ashbourne, Montgomery Co., Pa.—Moses & King, architects, Philadelphia, are preparing plans for two new half stone and frame dwells.

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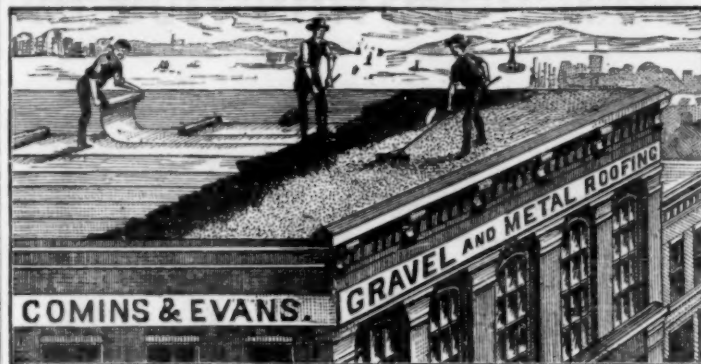
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BUILDING INTELLIGENCE.

Baltimore, Md.—Wm. Hofmeister, 2 three-st'y brick buildings, s s Eastern Ave., bet. Register and Ann Sts.

Boston, Mass.—Wrentham St., near Dorchester Ave., Ward 24, two frame dwells, 22' x 35'; owner, J. J. Stewart; builder, C. A. North.

Unnamed St., from Bailey St., Ward 24, frame dwell, 18' x 20.8'; owner, Rowena Burt; builder, E. N. Burt.

Ashmont Park, near Ashmont St., Ward 24, frame dwell, 21' x 43'; owner, Annie Riley; builder, Peter Riley.

Sydney St., near Savin Hill Ave., Ward 24, one-st'y frame dwell, gambrel roof, 32' x 42'; owner, C. M. Bugbee; builder, P. P. Nichols.

Ocean St., near Roslin St., Ward 24, frame dwell, 24' x 43.8'; owner, Mary Y. Eastman; builders, C. A. Dearborn & Co.

Blue Hill Ave., Nos. 148-150, Ward 21, 2 three-st'y frame dwells, flat roofs, 22.6' x 47'; owner and builder, H. J. Bartlett.

C St., No. 194, Ward 13, three-st'y frame dwell, flat roof, 22' x 38'; owner, B. Bradley; builders, Berry & Watson.

Monadnock St., near Dudley St., Ward 20, three-st'y frame dwell, pitch roof, 37' x 59'; owner, Samuel Crowell; builder, C. W. Bowers.

Sunderland St., near Blue Hill Ave., Ward 21, frame dwell, 25' x 49'; owner, Martha Hoag; builder, J. H. Hoag.

Day St., near Atwood Ave., Ward 22, three-st'y frame dwell, 24' x 46'; owner, John Waters; builder, J. L. Dakin.

Cambridge St., near Dustin St., Ward 25, frame dwell, 24' x 30'; owner, John Craig; builder, H. R. Ruggles.

Morris St., near Brooks St., Ward 1, three-st'y frame dwell, flat roof, 21' x 34'; owner and builder, J. H. Stevenson.

Gardner St., near Baker St., Ward 23, frame dwell, 24' x 39'; owner, T. F. Welch; builder, W. S. Mitchell.

Parker St., No. 816, rear, Ward 23, three-st'y frame dwell, flat roof, 24' x 45'; owner and builder, M. J. O'Brien.

Harlow St., No. 10, Ward 20, three-st'y frame dwell, flat roof, 23' x 65'; owner and builder, A. Elpley.

Ottawa St., Nos. 42-44, Ward 21, 2 three-st'y frame dwells, flat roofs, 22' x 47.9'; owner and builder, F. J. Fortunato.

Sheridan Ave., No. 92, Ward 23, three-st'y frame dwell, pitch roof, 25' x 46'; owner, Mrs. D. Talbot; builder, A. Barkley.

Sutherland St., near Lanark Rd., three-st'y frame dwell, pitch roof, 36.6' x 45'; owner, Mrs. L. B. Kelley; builder, W. H. Stewart.

Chicago, Ill.—Mrs. S. Doerbach, three and two-st'y dwells, 443 Sedwick St.; cost, \$6,000.

BUILDING INTELLIGENCE.

W. H. Pruyn, 2 three-st'y dwells, 3239-3241 Vernon Ave.; cost, \$16,000.

J. S. Smith, three-st'y dwell, 3132 Vernon Ave.; cost, \$8,000.

C. P. Mitchell, 4 two-st'y dwell, 437-443 Thirty-eighth St.; cost, \$13,000.

Iver Anderson, 10 cottages, 3208-3236 Leavitt St.; cost, \$11,000.

Cincinnati, O.—Anton Lohans, two-and-one-half-st'y dwell, Banard St.; cost, \$3,500; architects, G. & A. Brink.

John Henry estate, one-st'y brick dwell and one and-one-half-st'y frame dwell, Madisonville Pike; cost, \$7,000; architect, John H. Boll.

J. Strohle, two-and-one-half-st'y dwell, Annie St.; cost, \$3,000; architects, G. & A. Brink.

John Moser, two-and-one-half-st'y dwell, Hat-maker St.; cost, \$3,000; architect, A. J. Bast.

Stark Bros., 2 two-st'y dwell, Fulton Ave.; cost, \$4,500; architect, A. Parmelle.

Stark Bros., two-st'y dwell, Fulton Ave.; cost, \$3,000; architect, A. Parmelle.

Robert Rogers, 2 two-st'y dwells, Nelson St.; cost, \$4,000; architect, L. A. Plympton.

Mrs. C. W. Earnest, four-st'y dwell, 50 Clark St.; cost architect E. R. Fischer.

Dallas, Tex.—W. J. Clark will build 20 two-st'y dwells, to cost \$30,000.

Denver, Col.—Race St. and Fourteenth Ave., brick dwell.; cost, \$9,000; owner, E. F. Thomas; architect, A. M. Stuckert.

Ogden St., blue Longmont stone dwell; cost, \$30,000; owner, G. W. Bailey; architects Lang & Pugh.

Gilpin St., bet. Fourteenth and Colfax Aves., brick dwell.; cost, \$5,500; owner, M. L. Cox; architects, Balcomb & Rice.

Grand Rapids, Mich.—Frame dwell for A. B. Knowlton to cost \$5,000; architect, W. G. Robinson; contractor, E. Wade.

Greenfield, Mass.—Dr. Bradlow is to build a dwell.

Little Rock, Ark.—H. P. Edmanson is having plans prepared by Fred J. H. Rickon, architect, for a frame dwell, to cost \$3,000.

Merion, Pa.—House and stable; cost, \$12,000; architects, Moses & King, Philadelphia; builders, Good-fellow & Son.

New York, N. Y.—Eightieth St., n s, 350' w Ninth Ave., three-st'y and basement dwell, tin roof; cost, \$11,000; owner, James W. Taylor, 45 West Ninetieth St.; architect, George A. Bagge, 351 West Fifty-third St.

Third Ave., s w cor. One Hundred and Twenty-ninth St., five-st'y brick dwell, tin roof; cost, \$17,000; owner, Chas. B. Tooker, 10 East One Hundred and Thirtieth St.; architect, John P. Walther, 230 East One Hundred and Twenty-ninth St.

Ninety-second St., n s, 200' e Tenth Ave., 7 three-

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BUILDING INTELLIGENCE.

st'y stone dwell.; cost, \$34,000; owners, Ferriter & Roselle; architect, J. A. Webster.
Ninety-fourth St., s. s. bet. Fifth and Madison Aves., 4 four-st'y brick and stone dwell.; cost, \$100,000; owner, John H. Gray; architects, A. B. Ogden & Son.

West End Ave., s. w. cor. One Hundred and Third St., 9 three-st'y and basement brick and stone dwell.; owner, John H. Steinmetz.

Brook Ave., near One Hundred and Sixty-first St., 3 three-st'y frame dwell.; cost, \$9,000; owner, John Gerhardt; architect, Jas. S. Wightman.

Ninety-second St., n. s. 113' w. Madison Ave., 4 four-st'y stone front dwell.; cost, \$80,000; owner, Walter Reid; architects, A. B. Ogden & Sons.

Lawrence St., n. s. and s. s. One Hundred and Twenty-seventh St., 175' w. Ninth Ave., 2 two and three-st'y brick dwell., tin roofs; cost, \$15,600; owners, Stone & Beyer, 2310 Eighth Ave.; architect, John E. Darrage, 158 West One Hundred and Twenty-fifth St.

Eighty-ninth St., n. s. 125' w. Eighth Ave., 3 four-st'y brick dwell., mansard, slate and tin roofs; cost, \$60,000; owner, Walston Whaley, 214 Academy St., Long Island City, N. Y.; architect, Joseph H. Taft, 41 East Twentieth St.

Seventy-second St., s. s. 100' e. West End Ave., 2 four-st'y brick dwell., tin roofs; cost, \$94,000; owner, William Miller, 811 East One Hundred and Forty-fourth St.; architect, John C. Burne, 1531 Third Ave.

Pittsfield, Mass.—Dr. Brandon is to build a dwell.; carpenter, J. B. Glantz; mason, H. Dodge.

Springfield, Mass.—C. C. Abbey, two-st'y frame dwell., Princeton St.; cost, \$5,000.

Steelton, Md.—J. C. Ooder has the contract for the building of 37 dwell.

St. Louis, Mo.—Two-st'y brick dwell.; cost, \$3,300; owner, A. G. Knopp; contractor, J. H. Frye.

Two-st'y brick dwell.; cost, \$5,600; owner and contractor, J. F. Sweeney.

Two-st'y brick dwell.; cost, \$4,000; owners and contractors, Alcock & Meakins.

Two-st'y brick dwell.; cost, \$6,500; owner, O. P. Walbridge; contractor, T. J. Kelly.

Two-st'y brick dwell.; cost, \$15,000; owner, Mrs. Mulhall; contractor, A. E. Cook; architect, I. S. Taylor.

Two-st'y and mansard brick dwell.; cost, \$5,500; owner, P. Ehlhard; contractor, L. Horman.

Two-st'y brick dwell.; cost, \$3,500; owner, M. O'Brien; contractor, L. Horman.

Three-st'y brick dwell.; cost, \$20,000; owner, Mrs. Siles Bent; contractors, Kerr & Allen.

Two-st'y brick dwell.; cost, \$14,000; owner, A. Moll; contractor, A. H. Haeseler.

Two-st'y brick dwell.; cost, \$2,500; owner, B. Struckhoff; contractor, Voasi Buxtor.

West Springfield, Mass.—L. V. B. Cook is to build a dwell., cor. New Bridge and Meadow Sts.

Wilbraham, Mass.—C. E. Peck, frame dwell., Main St.

Woburn, Mass.—Warren St., frame dwell., 31' x 32', with L. 8.4' x 22'; owner, W. E. Cummings; contract to be let; architects, Joseph R. and Wm. F. Richards, Boston.

Woodbury, N. J.—T. E. Rice, 5 three-st'y brick dwell.; cost, \$10,000; architects, Moses & King, Philadelphia, Pa.

OFFICE-BUILDINGS.

Denver, Col.—Fifteenth St., cor. Curtis St., six-st'y

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BUILDING INTELLIGENCE.

red stone office-building; cost, \$125,000; owner, J. Q. Charles; architect, L. Cutshaw; builders, Thompson & Tomlinson.

Arapahoe St., near Sixteenth St., six-st'y red stone and pressed-brick office-building; cost, \$100,000; owner, C. G. Chever; architects, F. E. Edbrooke & Co.

Curtis St., cor. Seventeenth St., eight-st'y red stone and pressed-brick office-building; cost, \$400,000; owners, Ernest & Grammer; architects, F. E. Edbrooke & Co.

New York, N. Y.—Pine St., Nos. 34-34½, office-building; owners, the Hanover Fire Insurance Co.

Broadway, No. 29, and Morris St., Nos. 2-4, twelve-st'y fireproof office-building; cost, \$400,000; owner, Spencer Aldrich; architects, Young & Cable.

Philadelphia, Pa.—Woodland Ave., n. s. w. Fifty-second St., one-st'y office and shop; owner, John Dick, Sixty-third St. and Woodland Ave.

St. Louis, Mo.—Two-st'y brick office; cost, \$6,500; owner, C. Kilpstein; contractor, T. T. Thomsen.

PUBLIC BUILDINGS.

Hillsboro, Tex.—Hill County will build a court-house to cost \$83,000.

RAILROAD BUILDINGS.

Salem, Va.—The building of a passenger station, to cost \$20,000, is contemplated by the Norfolk & Western Railroad Co.

SCHOOL-HOUSES.

Detroit, Mich.—Board of Education, two-st'y brick school-house, 310 Brigham St.; cost, \$20,000.

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BUILDING INTELLIGENCE.

Grand Rapids, Mich.—Public school-house, cor. Fountain and Diamond Sts.; cost, \$12,500; architect, J. H. Davenport.

New York, N. Y.—Courtland Ave., e. s. 179' 90" s. One Hundred and Fifty-seventh St., four-st'y brick school-building, tin roof; cost, \$25,000; owners, City of New York, City Hall, N. Y.; architect, Geo. W. Debevoise, 146 Grand St.

STABLES.

Boston, Mass.—Bradstreet Ave., rear, near Mt. Hope St., Ward 23, one-st'y stable, pitch roof, 16' x 20'; owner, T. F. Callahan; builder, Mr. Schroder.

Chicago, Ill.—J. E. Gillespie, two-st'y livery-stable and dwell., 1020-1022 Harrison St.; cost, \$6,000.

Cincinnati, O.—F. Eckstein, two-st'y stable, Fourth St.; cost, \$2,500; architect, W. W. Alkin.

New York, N. Y.—One Hundred and Thirty-third St., s. s. 185' e. Lenox Ave., four-st'y brick stable, tin roof; cost, \$17,000; owner, Charles Truman, 619 East One Hundred and Forty-first St.; architect, Julius Munkowitz, 247 West One Hundred and Twenty-fifth St.

Philadelphia, Pa.—Price St., No. 107, one-st'y stable; owner, Maurice Hayes, 1816 Girard Ave.

South Nineteenth St., No. 420, rear, two-st'y stable; contractor, J. T. McConnell, 2012 Pine St.

Troy, N. Y.—Second and Washington Sts., rear, brick stable, 30' x 40'; owner, C. E. Patterson; architect, H. Langford, Boston; builders, Nichols & McGill.

Worcester, Mass.—T. E. Meyer, barn,

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STORES.

Boston, Mass.—Falmouth St., cor. Belvidere St., four-st'y brick stores and apartments, 55, 94, 109 feet; owner, Nathan Matthews; architects, Joseph R. and Wm. P. Richards, Boston; builder, Thomas White.
Chicago, Ill.—D. F. Shahovski, three-st'y store and dwell., 782 West North Ave.; cost, \$10,000.
C. Elsmueller, 2 two-st'y stores and flats, 808-900 California Ave.; cost, \$9,000.
John Meehan, two-st'y store and dwell., 3667 Archer Ave.
George F. Stoneham, three-st'y stores and flats, 317 Ogden Ave.; cost, \$6,000.
O. Meister, 2 two-st'y stores and flats, Division St.; cost, \$7,000.
M. Recas, two-st'y stores and flats, West Nineteenth St.; cost, \$3,800; architect, W. Culver.
L. L. Leach & Son, four-st'y store, Wabash Ave.; cost, \$25,000; architect, Thomas Wing.
A. Cummings, 3 four-st'y stores and flats, Eighteenth St.; cost, \$15,000; architect, M. W. Walter.

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BUILDING INTELLIGENCE.

Mrs. Young, two-st'y store and flats, California Ave.; cost, \$3,000.
J. Kuttan, three-store and flats, South May St.; cost, \$6,500.
J. Conway, two-st'y stores and flats, Van Buren St.; cost, \$2,500; architect, T. C. Crocker.
New York, N. Y.—Lispenard St., No. 11, six-st'y brick store, tin roof; cost, \$40,000; owner, A. H. Conkling, et al., 27 East Tenth St.; architect, W. H. Royston, 141 Ocean Ave., Jersey City.
Philadelphia, Pa.—Market St., s. e. c. Fortieth St., three-st'y store and warehouse; contractor, Thos. Wasser, 4012 Locust St.
St. Louis, Mo.—Two-st'y brick store and dwell.; cost, \$4,500; owner, L. Buchmuller; contractors, Auger & Richner.
Two-st'y brick store and dwell.; cost, \$3,500; owner, J. Smith; contractor, M. Britt.
TENEMENT-HOUSES.
New York, N. Y.—Avenue B, s. e. s. commencing 26' n Eighty-second St., 3 five-st'y brick tenements, tin roofs; cost, \$36,000; owners, L. & J. Brandt, 608 East Eighty-fourth St.; architect, John Brandt, 608 East Eighty-fourth St.
Division St., Nos. 49-191, five-st'y brick tenement, tin roof; cost, \$13,000; owners, E. & P. Sobel, 185 Greenwich St.; architect, Henry Dudley, 49 Wall St.
Twenty-sixth St., Nos. 235-237, 2 five-st'y brick tenements, tin roofs; cost, \$24,000; owners, J. & G. Beckman, 149 Broadway; architect, John P. Walther, 230 East One Hundred and Twenty-fifth St.
Madison St., Nos. 179-181, 2 four-st'y brick and stone tenements; owners, Baumann & Capelle; architects, Schneider & Herter.

WAREHOUSES.

Chicago, Ill.—P. H. Hebard, five-st'y warehouse, Winchester Ave.; cost, \$5,500; architect, Drake.
Philadelphia, Pa.—Ludlow St., s. e. w. Forty-first St., one-st'y warehouse; owners, J. Wallworth & Sons, 330 Bell St.
St. Louis, Mo.—Two-st'y brick warehouse; cost, \$3,500; owner, J. F. Hackman; contractors, Klute & Hillebrand.
Five-st'y brick warehouse; cost, \$25,000; owners, Buck Store & Range Co.; contractor, J. W. Givens.

MISCELLANEOUS.

Boston, Mass.—The following is the report of the Building Department for 1889:
DEPARTMENT OF THE INSPECTION OF
BUILDINGS, OLD STATE-HOUSE,
December 28, 1889.
Hon. Thomas N. Hart, Mayor—Sir: The work of the department continues to increase year by year, and the extent of the increase of the work of this year to December 25 only, as compared with the entire work of last year, can be seen by the following table of permits granted:

BUILDING INTELLIGENCE.

To Dec. 25,	1889,	1888.
Brick.....	379	381
Wood.....	1,844	1,554
Alterations, etc.....	2,202	2,005
Plumbing.....	4,185	3,575
Boilers and engines.....	888	1,013

In the departments of egress, elevators, prosecutions, plans and records, the same increase has taken place.

The expenses of the department for the year 1889, including the January draft of 1890, and excluding the January draft of 1889, amounts to \$58,609.85.

This has been obtained not only by the strictest economy, but by cutting off the means of transporting the officers of the department through and about the city in their official work, thereby taking up the valuable time that should be given to inspection in going from place to place on foot. This cut-down was necessary, that the department might comply with the requirements of the city charter and keep within the appropriation.

Our unexpended appropriation is \$12,392.33.

As to the ability of the department to continue its work to the end of the fiscal year, I would respectfully renew my communication of November 8, 1889, in answer to Circular No. 34, and add that since that date the department has been called upon to incur large and what may be termed extraordinary expenditures. The amount I am unable to state, the bills not having as yet been presented. This amount will have to be paid by a special appropriation, the department having no appropriation granted it to meet such contingencies.

These expenses were necessitated in securing the public against accident, by taking down unsafe walls occasioned by the fire of November 28.

For the greater efficiency of this department, especially such as may require action on the part of the Mayor, the City Council or the Commonwealth, I would recommend the co-operation of the City Council with the gentlemen of the committee now acting on the revision of the building laws, of which Mr. William Minot, Jr., is Chairman.

This able committee of citizens, representing the varied interests, such as architects, masons, builders and contractors, carpenters, fire-insurance agents, board of underwriters, electricians, real estate owners and agents and civil engineers, has received the hearty commendation of your honor.

Respectfully,
JOHN S. DAMELL,
Inspector of Buildings.

OFFICE OF THE SUPERINTENDENT.

December 28, 1889.
Hon. Thomas N. Hart, Mayor—Sir: In reply to Circular 35, I would respectfully submit the following:

The actual work of the department for the year 1889 has been the repairs, alterations, furnishing, equipment and maintenance of the public buildings,

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school-houses, county buildings and armories of the militia.

The actual expense of this work for the same period has been as follows:

Public buildings.....	\$142,533.40
School-houses.....	276,787.75
County buildings.....	55,504.38
Armories.....	40,721.43

These amounts cover the period from the February draft of 1889 to that of January, 1890, inclusive.

The unexpended balances of appropriations which this department has in charge will be sufficient (provided no extraordinary demands are made) to continue our work to the end of the fiscal year, with the exception of that for armories, which will require an additional amount of \$5,000 to cover the time specified.

The total number of persons employed in the department, including the superintendent, is 11.

In my judgment, the number of polling places, which now number 286, can be reduced to 200, and not inconvenience the citizens, but materially reduce the cost in this direction. I would also suggest the feasibility of merging all the work that appertains to the use of ward-rooms, registration of voters and election expenses under one head, thereby reducing the cost. The work, as at present performed, is by four different departments independently, thus trespassing upon the regular work of those departments, and probably not so economically performed as it would be by one department alone.

Respectfully,
JAMES C. TUCKER,
Superintendent of Public Buildings.**Denver, Col.**—Wilton St., cor. Sixteenth St., six-sty red sandstone building; stores on ground-floor; offices and masonic rooms above; cost, \$250,000; architects, F. E. Edbrooke & Co.; builders: carpenter, T. F. La Due; masons, Hayes & McGilvray.**Detroit, Mich.**—Albracht, two-sty brick refrigerator, 524-526 Adelaide St.; cost, \$9,000.

Scott, Kemper & Scott, architects, buildings for the Michigan Meat & Provision Co., n Dix Rd.; cost, \$39,000.

BUILDING INTELLIGENCE.**Holyoke, Mass.**—The Dean Steam Pump Co. are to build a machine-shop and foundry.

Ralph Lucas, four-sty business block, High St.; builder, Gilbert Potvin.

Engine-room for Excelsior Paper Co.

New York, N. Y.—Allen St., No. 54, six-sty brick workshop, tin roof; cost, \$18,000; owner, Mary Brothers, 551 Grand St.; architect, Herman Horenburger, 99 East Third St.

Boulevard, s w cor. Seventy-second St.: Competitive plans are now being prepared for the building to be built for the Occidental Club; cost, \$125,000.

Tremont St., n w cor. Marion St., two-sty brick workshop, gravel roof; cost, \$3,000; owner, Edward Smith, 47 Ann St.; architect, Valentine Lynch, 116 West Thirty-ninth St.

West Twenty-eighth St., Nos. 429-431, seven-sty brick workshop, fireproof roof; cost, \$50,000; owner, Charles Fischer, 145 West Fifty-eighth St.; architect, A. Albricht, 425 West Twenty-eighth St.

North Adams, Mass.—Timothy Collins, four-sty brick block, State St.; cost, \$20,000.**Philadelphia, Pa.**—South Fifteenth St., No. 1213, one-sty kitchen; owner, Daniel Heenan, 1213 South Fifteenth St.

Fifty-sixth St., w s n Lancaster Ave., two-sty chemical works; contractor, Thos. G. Hunter, 540 Drexel Building.

Chestnut St., No. 3029, furnace and stack; owners, Myers & Smith, 3029 Chestnut St.

Inquirer St., No. 819, one-sty bath; owner, S. A. Earey, 2126 Franklin St.

Price St., No. 246, one-sty finishing-room; owner, Jno. Axford, 220 East Chelton Ave.

Haverford St., w Sixty-seventh St., two-sty back building; owner, Wm. Robinson, n s Haverford St., w Sixty-seventh St.

Dickinson St., No. 521, two-sty back building; contractors, Wm. H. Dutton & Bro., 411 South Fifth St.

Locust St., No. 2228, one-sty kitchen; contractor, J. A. Gillin, 1323 Reed St.

South Broad St., No. 415, one-sty kitchen; contractor, Robert Strode, 2131 Vine St.

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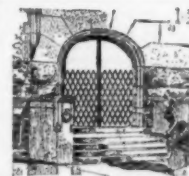
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BUILDING INTELLIGENCE.**St. Louis, Mo.**—Two-sty brick repository; cost, \$3,000; owner, J. H. Thornton; contractor, W. W. Love.**St. Paul, Minn.**—C. B. Thurston, four-sty brick storage building, Eagle and Washington Sts.; cost, \$40,000.**PROPOSALS.**

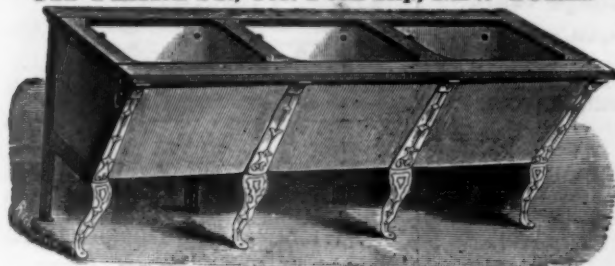
December 30, 1889. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 8th day of February, 1890, for the erection and completion of a wharf, coal bin, revetment, etc., for the United States Jump Revenue Station, Plaquemine Parish, La., in accordance with drawings and specification, copies of which may be had on application at this office or the office of the Superintendent, Charles G. Johnson, United States Custom-house, New Orleans, La. Each bid must be accompanied by a certified check for \$200. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not strictly comply with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect. 733

December 26th, 1889. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2

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PROPOSALS.

o'clock P. M. on the 22d day of January, 1890, for all the labor and materials required for the glass ceiling over post-office working-room of the United States Court-House, Post-Office, etc., building at Louisville, Ky., including the iron, glass, wood and copper work, in strict accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. 734

December 23, 1889. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 5th day of February, 1890, for furnishing the labor and materials, and putting in place complete the steel linings, including doors for two vaults required for the United States Mint Building at San Francisco, Cal., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent of the Mint. Each bid must be accompanied by a certified check for \$200. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect. 733

December 27, 1889. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 28th day of January, 1890, for all the labor and material required to fix in place complete the low-pressure, return-circulation steam-heater and ventilating apparatus, including power boiler and connections for the United States Post-office, etc., building at St. Joseph, Mo., in accordance with drawing and specification, copies of which may be had on application at this office and the office of the Superintendent. Each bid must be accompanied by a certified check for \$200. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect. 733

IRON-WORK.

[At Boston, Mass.]
OFFICE OF THE STATE-HOUSE CONSTRUCTION COMMISSION, 27 MT. VERNON STREET, BOSTON, MASS.

Sealed proposals will be received at this office until 12 M. on the 28th day of January, 1890, for furnishing and delivering at site of Massachusetts State-House extension, Boston, Mass., iron beams, plates, girders, columns and other iron and for work thereon, in accordance with drawings and specifications, copies of which and any additional information relating thereto may be had on application at the office of Brigham & Spofford, architects.

The Commissioners reserve the right to reject any and all bids, and bids received after the time named will not be considered.

JOHN D. LONG,
BENJAMIN D. WHITCOMB, } Commissioners.
WM. ENDICOTT, JR.

HARD BRICKS.

[At Rock Island, Ill.]
ROCK ISLAND ARSENAL,

ROCK ISLAND, ILL., December 16, 1889. Sealed proposals, in triplicate, for delivering at this arsenal 500,000 hard-burnt bricks for the arches of the water-power dam wall, will be received until 1 o'clock P. M., on Thursday, January 16, 1890. The dimensions of brick preferred are 8 1/2 x 4 1/2 x 2 1/2 inches.

Each bidder must submit a sample of the bricks he proposes to furnish, and the bricks delivered will be inspected by this sample.

Bidders must state the rate per week or month at

PROPOSALS.

which they can deliver the bricks, and when they can begin deliveries.

The successful bidder must execute a formal contract, with bond, within ten days after receiving notice of the acceptance of his bid.

The United States reserves the right to reject any or all bids.

Bids should be enclosed in sealed envelopes marked "Proposals for Bricks."

Full information and the blanks on which proposals must be made can be had from

JAMES M. WHITEMORE,
Colonel, Ordnance Department, U. S. Army, Commanding. 733

ELECTRIC-LIGHTING PLANT.

[At New York, N. Y.]
BUREAU OF YARDS AND DOCKS,
NAVY DEPARTMENT,
WASHINGTON, D. C., December 14, 1889.

Sealed proposals, in duplicate, indorsed "Proposals for Electric-Lighting Plant for New York Navy Yard," will be received at this Bureau until 11 o'clock A. M. on Tuesday, January 14, 1890, and publicly opened immediately thereafter.

Specifications and blank forms of proposals will be furnished, and plan of the yard may be examined, upon application to the commandant of the New York Navy Yard or the Bureau.

Responsible security will be required for the faithful performance of the contract, and the right is reserved to reject any or all proposals not deemed advantageous to the Government and to waive defects.

A bond for the sum of \$2,000 must accompany bids for the work. G. B. WHITE,
733 Chief of Bureau.

OFFICERS' QUARTERS.

[At Key West, Fla.]
BUREAU OF YARDS AND DOCKS,
NAVY DEPARTMENT,
WASHINGTON, D. C., December 14, 1889.

Sealed proposals, in duplicate, indorsed "Proposals for Construction of Officers' Quarters at Key West," will be received at this Bureau until 11 o'clock A. M. on Tuesday, January 14, 1890, and publicly opened immediately thereafter.

Specifications, plans and blank forms of proposals will be furnished upon application to the commandant of the United States Naval Station, Key West, Fla.

Responsible security will be required for the faithful performance of the contract, and the right is reserved to reject any or all proposals not deemed advantageous to the Government and to waive defects.

The bidders' bond will be 15 per cent of the amount of their proposal for the work.

G. B. WHITE,
733 Chief of Bureau.

EXTENSION OF TIME.

The time for submitting proposals for cut-marble for Massachusetts State-House extension has been extended to January 14th, 1890.

JOHN D. LONG,
J. D. WHITCOMB,
WM. ENDICOTT, JR.

PENITENTIARY.

[At Boise City, I. T.]
DEPARTMENT OF THE INTERIOR,
WASHINGTON, December 5, 1889.

Sealed proposals for furnishing the material and labor required in the completion of the United States penitentiary at Boise City, Idaho, will be received at this Department until 12 o'clock M., Wednesday, January 15, 1890, when they will be opened.

Plans and specifications, instructions to bidders, etc., may be seen at this Department and at the office of the Governor of the Territory at Boise City.

GEO. CHANDLER,
733 Acting Secretary.

COL. GEORGE E. WARING, JR., C. E. etc., in his recent work on Sewerage and Land Drainage, in speaking of traps liable to siphonage, says: "the best remedy would be to supply the defective traps at their summits with McClellan's Mercury Seal-Trap Vent, a perfectly safe device, of little cost, simple and easy of application, and sure to supply air when needed."

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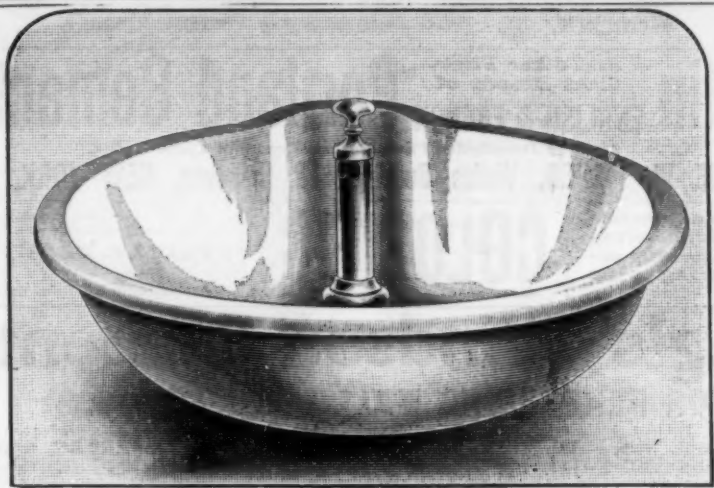


Plate 843—G. The "SIMPLEX" Recess Basin and Waste. (Patented.)

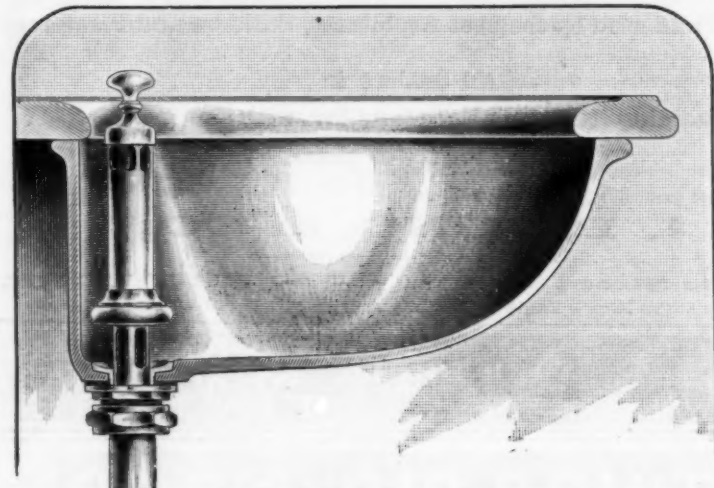


Plate 844—G. Cross Section of "Simplex" Recess Basin, showing Waste raised as when water is being let out of Basin.

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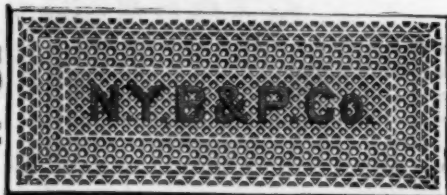
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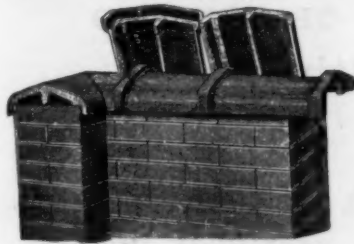
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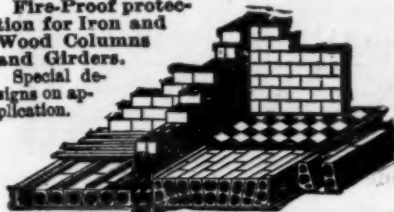
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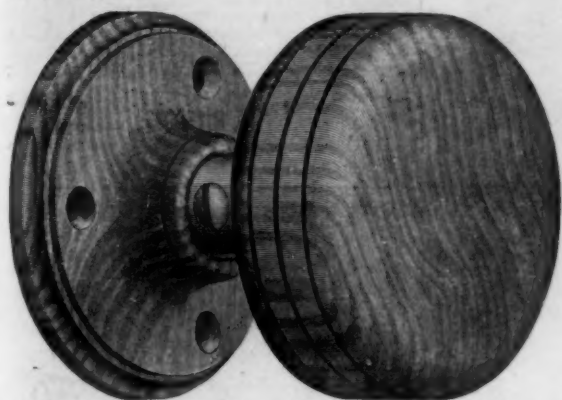
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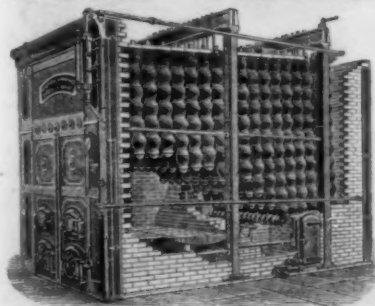
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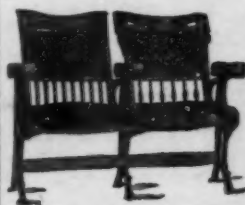
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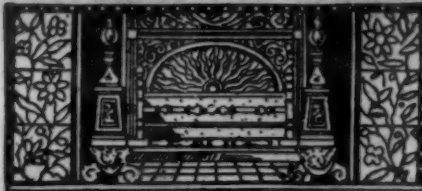
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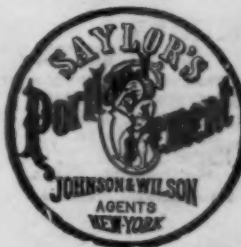
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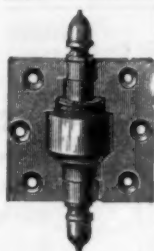
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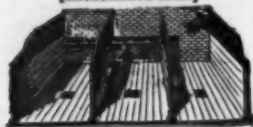
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BRICK.—P. M.				
(Wholesale Prices.)				
Common: Cargo afloat.				
Pale.....	3 50 @ 4 00			
Jersey.....	5 75 @ 6 75			
Long Island.....	6 25 @ 6 75			
Up River.....	6 5 @ 6 75			
Haverstraw Bay 2nd.....	6 75 @ 7 25			
1st.....	13 50			
Hollow.....	14 00 @ 15 00			
Fronts.....	15 00 @ 16 00			
Croton, Brown.....	15 00 @ 16 00			
" dark.....	15 00 @ 16 00			
" red.....	15 00 @ 16 00			
Chicago pressed (Anderson).....	7 00 @ 41 00			
Chicago Moulded.....	22 00			
Baltimore.....	22 00			
Philadelphia.....	22 00			
Trenton.....	22 00			
Milwaukee.....	22 00			
Moulded:				
Glens Falls Red Pressed.....	37 00			
" Buff.....	30 00			
" Moulded Red & Buff.....	45 00 @ 70 00			
Enamelled: (imp.).....	80 00 @ 100 00			
Enamelled (edge and end).....	90 00 @ 115 00			
CEMENT, LIME, etc.—(P. M.)				
Rosendale Cement.....	1 75			
Louisville.....	Not sold.			
Utica, Akron, Buffalo, Milw'kee.....	2 50 @ 3 00			
Portland, English (Gibbs).....	2 50 @ 3 00			
" (K. B. & S.).....	2 50 @ 3 00			
" Black Cross.....	2 50 @ 3 00			
" (Burham).....	2 50 @ 3 00			
" (White's).....	2 50 @ 3 00			
" French (Lafarge).....	3 00 @ 3 75			
" German (Alsen).....	2 90 @ 3 25			
" (Fewer).....	2 25 @ 2 40			
" (Vorwoller).....	2 50 @ 2 90			
" (Lagerdofer).....	2 50 @ 3 25			
" (Dyckerhoff).....	2 50 @ 3 00			
" (Hanover).....	2 35 @ 2 85			
" Stein, (Anchor).....	2 15 @ 2 45			
" American (Saylor's).....	2 15 @ 3 00			
Roman.....	2 75 @ 3 00			
Keene's coarse.....	5 15 @ 6 50			
" superfine.....	9 25 @ 10 25			
Lime:				
Lime of Tott.....	3 50 @ 4 00			
Hydraulic Lime.....	1 45			
Chicago Lime in bulk.....	1 00			
Wisconsin.....	1 20			
Rockland and Rockport, (Com.).....	1 20			
Rockland and Rockport, finish.....	1 20			
Kelley Island Lime, finish.....	1 20			
State, com. cargo rates (nom.).....	85			
State, finishing.....	1 10			
Plaster of Paris (calcined).....	1 20 @ 1 25			
" (cast).....	1 30 @ 1 35			
Hair (Castle) & bush.....	14 @ 15			
" (boat).....	12 @ 15			
Sand, P. load.....	1 00 @ 1 25			
STONE. (P. cubic foot, rough.)				
Granite: (Maine)				
Limestone:				
Bedford.....	45 @ 1 25			
Joliet.....	1 00			
Lamont.....	1 00			
Serpentine.....	1 00			
Eastern:				
9 00 @ 10 00				
Bay State Hard.....	9 75			
Domestic Com.....	9 50 @ 10 00			
Domestic Face.....	20 00 @ 22 00			
Philadelphia.....	40 00 @ 45 00			
Phila. mould.....	50 00 @ 60 00			
Anderson.....	14 00 @ 32 00			
Building Brick				
6 50				
Indiana Pressed.....	14 00 @ 20 00			
St. Louis Fronts.....	27 00			
15 00 @ 27 00				
65 00 @ 80 00				
85 00				
45 00 @ 50 00				
45 00 @ 50 00				
25 00 @ 30 00				
60 00 @ 100 00				
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50 00 @ 65 00				
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Colorful	2 1/2		
Red	3		
White	1 75		
Foundation:			
Dimension		5 00	per ton
Block		4 60	per ch
Rubble		1 25	per 1 50
Bluestone: (P sq. ft.)			
Sidewalk	30 @ 5 00	40 @ 1 75	
Planned	50 @ 6 00	75 @ 1 00	
Sandstone:			
Longmeadow	80	80 @ 90	
Kibbo	90	90 @ 1 10	
Brown (Connecticut)	1 00 @ 90	1 25 @ 1 45	
Amherst	90 @ 95	90 @ 1 00	
Berea	75 @ 1 00	80 @ 90	
Berlin	75 @ 1 00	80 @ 90	
Belleville	80 @ 1 25	1 25 @ 1 35	
New Brunswick (Dorchester)	1 00	75 @ 90	
Osceola	1 05	2 00	
Carlisle, English	1 05	1 05	
Corse Hill (Scotch)	1 05	1 05	
Marble: (P cu. ft.)			
Lee, Mass.	1 75	2 50	
Rutland, white and blue	1 25 @ 1 75	3 00	
Sutherland Falls		2 00	
Glens Falls, black			
Italian, blue-veined			
Sienna			
Tennessee, red			
Knoxville			
Pennsylvania, blue			
Vermont, white			
Slate: Roofing (P square)			
green	5 00 @ 6 00	4 75 @ 5 25	
unfading	5 00 @ 6 00	5 50 @ 6 50	
purple	5 00 @ 6 00	5 50 @ 6 50	
red	5 00 @ 6 00	10 00 @ 11 00	
black, Lehigh	4 25 @ 4 75		
Chapman			
Unfading Black, Monson, Me.	5 50 @ 8 00	5 50 @ 8 00	
Tiles, Am. (P M.)			
N. Peach Bottom, warranted unfading			
PAINTS. (In oil, P lb.)			
White lead, Am.	7 00 @ 7 1/2	7 1/2	
Zinc	5 00 @ 5 1/2	5 1/2	
Red lead, Am.	6 1/2 @ 7	7	
Venetian	6 1/2 @ 7	7	
Vermilion	65 @ 70	72 @ 75 dry	
Red Indian, Eng.	12 @ 20	12 @ 20	
Yellow Ochre	6 @ 15	7 @ 12	
Chrome	12 @ 20	18 @ 25	
Green (chrome)	25 @ 40	25 @ 40	
Green, Paris	15 @ 25	15 @ 25	
Black, lamp	15 @ 25	18 @ 30	
Blue, ultramarine	17 @ 25	18 @ 30	
Oil, linseed, (raw)	57 @ 62	60 @ 61	
boiled	60 @ 65	63 @ 64	
Turpentine	45 @ 46	50 @ 53	
Varnish, coach		1 00 @ 1 00	
shellac		2 50 @ 3 00	
Putty	2 @ 4	2 @ 4	
Whiting	75 @ 1 00	1 @ 1 1/2	
Paris white, (Eng.)	1 30 @ 2 00	2 @ 3	
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Umber	14 @ 20	14 @ 20	
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10d. common	2 25	2 50	
Shingle	3 35	3 70	
Lath	4 25		
Finishing nails according to size.			
(For casing nails add 75c. per keg.)			
Butts: 4"x4" (P doz. pairs)			
Plain	1 00	1 20	
Japanned	1 50	1 75	
Acorn, Japanned	1 50	1 50	
Ball Tip, Boston Finish (P pair)	65	60	
Bronze metal	1 90	plain 1 65	
Brass (or supboards)	10	10	
Ebony			
Apple wood			
Knobs: (P Set)			
Mineral, best	8	8	
Lava	50	75	
Hemacite	Not sold	33	
Porcelain	30	10	
Glass, solid	Not sold	50	
Glass, silver	Not sold	1 00	
Bronze metal	75 @ 2 00	50 @ 3 00	
Brass	1 00 @ 2 50	50 @ 3 00	
Solder:			
Sheet Lead		16 00 @ 17 00	
Lead Pipe		6 1/2	
Iron:			
I-Beams, up to and including 30 ft.	3 3-10 @ 2 1/2	3 1-10	
C-Beams, over 30 ft. 1, 1 1/2, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100	3 3-10 @ 2 1/2	3 1-10	

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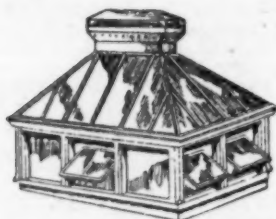
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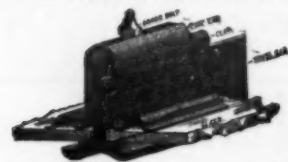
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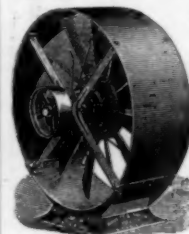
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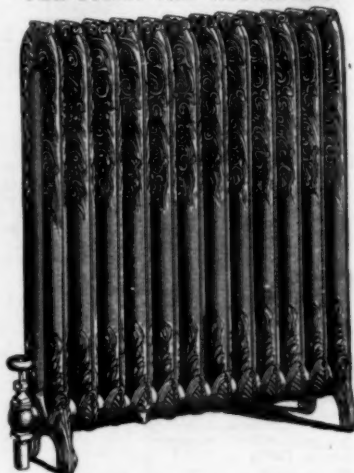


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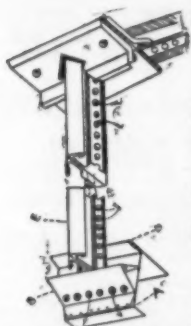
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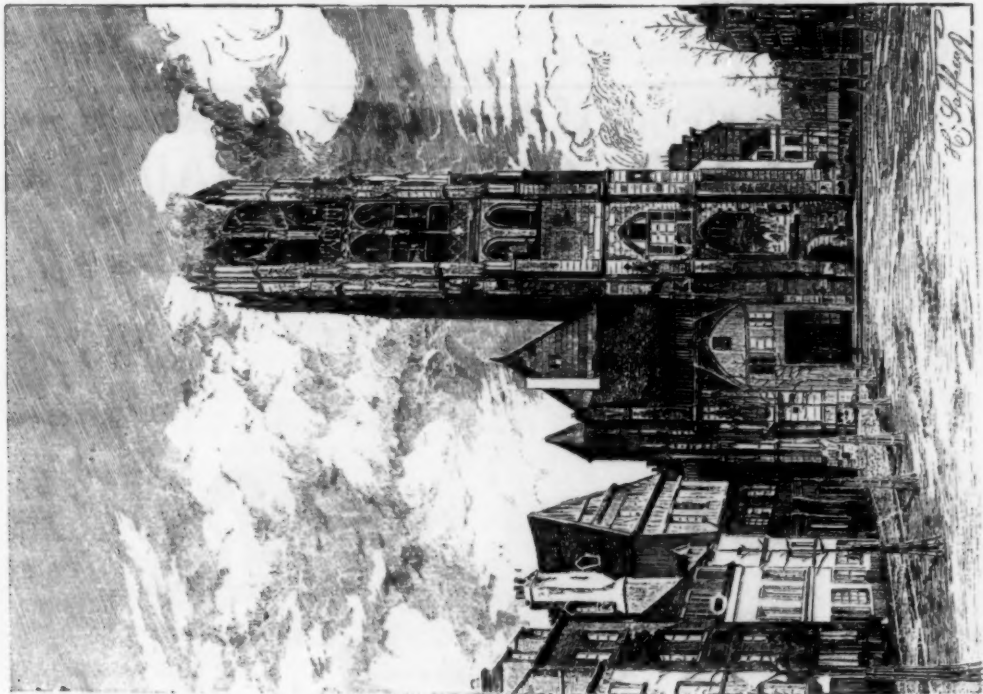
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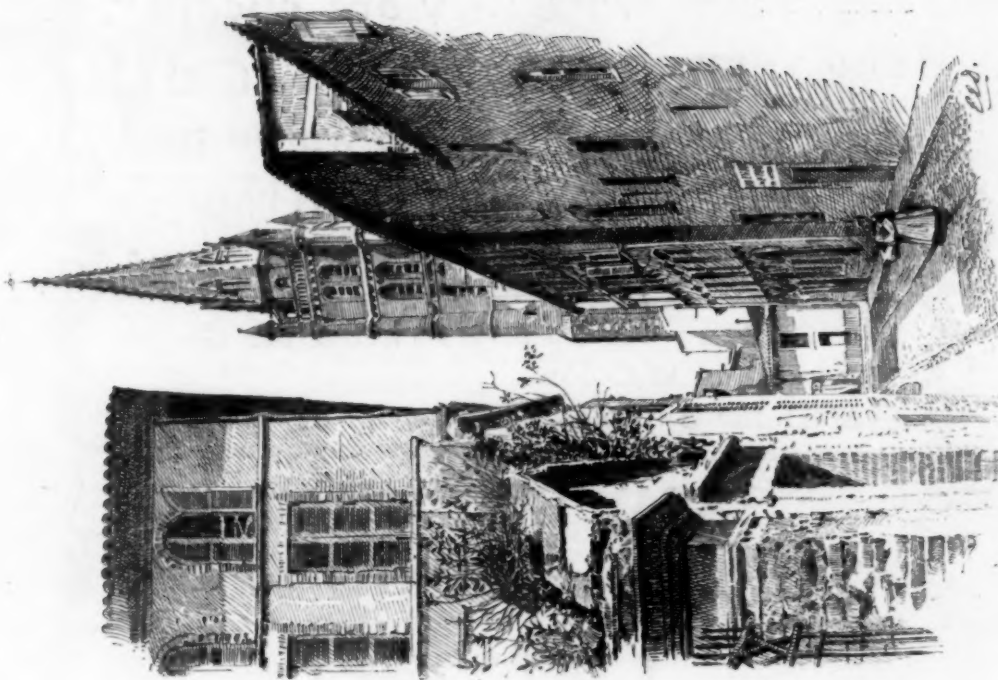
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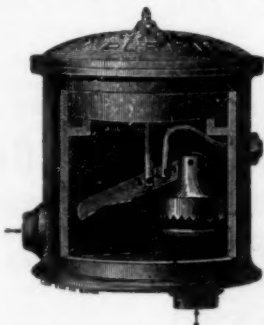
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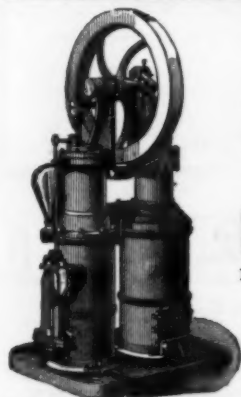
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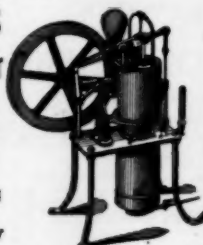
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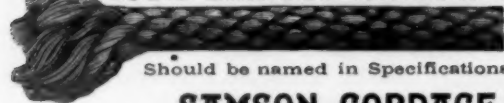


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New Advertisements.

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PALMER HARDWARE MFG. CO. (Troy, N. Y.), and
EMPIRE PORTABLE FORGE CO. (Lansingburgh,
N. Y.), Sash Pulleys. Page viii.

PERSPECTIVE DRAWING.

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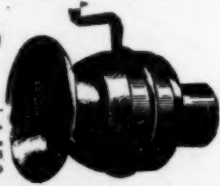
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BUILDING INTELLIGENCE.

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[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.]

ALTERATIONS.

Boston, Mass.—Norfolk St., No. 124, cor. Magazine St., Ward 20, addition to rear brick storage, 80' x 100'; owner, J. W. Boswick.

COLORADO.

Persons desiring authoritative information concerning the Agriculture, Mines, or Manufactures of Colorado; its resources, advantages, etc., with industrial and labor statistics, can receive, postage free, pamphlets, maps, etc., or answers to special inquiries, by addressing State Bureau of Immigration and Statistics, Denver, Col.

BUILDING INTELLIGENCE.

Sudbury St., Ward 7, remodel store fronts on both Sts. of brick mercantile building; owner, Levi Boles; builder, Samuel Seward.

Cambridge, Mass.—Quincy St., alterations to Can

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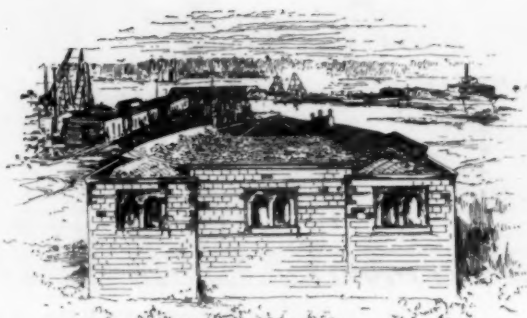
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57th St. and N. R.
(IN CONSTRUCTION.)**BUILDING INTELLIGENCE.**bridge Club-house; contract to be let; architects, Longfellow, Alden & Harlow, Boston.
Mason and Garden Sts., alterations to Harvard annex; contract to be let; architects, Longfellow, Alden & Harlow, Boston.

Camden, N. J. — South Fourth St., Nos. 705-709, alteration of two brick buildings for dwell.; owner, A. Stiles.

Broadway, n w cor. Stearns St., three-st'y alteration for brick dwell.; owner, Wm. Horner, Broadway and Stearns St.

Broadway, n e cor. Royden St., three-st'y brick addition for dwell.; owners, Arthur H. Williams & Sons.

Third and Market Sts., brick and fireproof alteration to West Jersey Tile and Guaranty Co.; cost, \$10,000; architects, Moses & King, Philadelphia, Pa.

Camden Co., N. J. — Brick alterations to insane asylum; cost, \$12,000; architects, Moses & King, Philadelphia, Pa.; builder, John Corbitt.

Chicago, Ill. — Rosala Cavanna, addition, 148 State St.; cost, \$5,000.

Cincinnati, O. — Fred Eckstein, two-st'y rear addition to building, Fourth St.; cost, \$13,000; architect, W. W. Aikin.

Fall River, Mass. — High St., alterations to frame dwell. for E. A. Tuttle; cost, abt. \$8,000; contract to be let; architects, Franz E. Zerrahn and A. M. Marble, Boston.

New York, N.Y. — East Twelfth St., No. 220, four-st'y brick dwell., extension and internal alterations; cost, \$10,000; owner, Charles Jackson, 78 Bowers; architect, F. A. Minueth, 822 Broadway.

Beverly, Nos. 294-296, four-st'y brick store and lofts, extension and internal alterations; cost, \$9,500; owner, August Hormann Stapleton, Staten Island, N. Y.; architect, J. Boekel & Son, 54 Bond St.

Norfolk St., a w cor. Broome St., five-st'y brick store and tenement, extensive internal alterations; cost, \$3,500; owner, Henry J. Davis, 311 Broome St.; architect, Fred Ebeling, 3 First Ave.

One Hundred and Twenty-fourth St., No. 263, and West One Hundred and Twenty-fifth St., No. 264, 2 two and three-st'y brick schools, internal alterations; cost, \$4,500; owners, City of New York, City-hall, N. Y.; architect, Geo. W. Debevoise, 146 Grand St.

Broadway, No. 501, and Mercer St., No. 72, brick store and lofts, extensive internal alterations; cost,

BUILDING INTELLIGENCE.

\$9,000; owner, J. S. Rogers, 44 Exchange Pl.; architects Jordan & Gillie 19 Park Pl.

St. Louis, Mo. — Alter three-st'y brick store; cost, \$2,500; owner, J. Bussack; contractor, B. Weber. Alter five-st'y brick store; cost, \$4,300; owner, H. Hitchcock; contractors, Goosse & Remmers.

APARTMENT-HOUSES.

Boston, Mass. — Falmouth St., No. 119, Ward 11, four-st'y brick apartments, flat roof, 46.6' x 59.6'; owner and builder, Peter Graffam.

Huntington Ave., Nos. 159-163, Ward 11, 3 four-st'y brick apartments, flat roofs, 24' x 55'; owner, G. W. Nason; builder, A. Knowlton.

Chicago, Ill. — Charles E. Carlson, four-st'y flats, 118-120 Oak St.; cost, \$12,000.

Jacob Weiffenburg, three-st'y flats, 488 Winchester Ave.; cost, \$5,000.

O. Olson, two-st'y flats, 5729 Princeton Ave.; cost, \$4,000.

Otto Schmith, two-st'y flats, 4815 Indiana Ave.; cost, \$2,500.

New York, N.Y. — West Thirty-first St., Nos. 339-341, 2 five-st'y brick flats, tin roofs; cost, \$40,000; owner, Michael F. Gillespie, 339 West Forty-seventh St.; architect, James W. Cole, 403 West Fifty-first St.

Avenue B, n w cor. Eighty-second St., five-st'y brick flat, tin roof; cost, \$18,000; owners, L. & J. Brandt, 608 East Eighty-fourth St.; architect, John Brandt, 608 East Eighty-fourth St.

One Hundred and Eighteenth St., s e cor. Madison Ave., 5 five-st'y brick and stone flats; cost, \$120,000; owner, Nicholas Comforti; architects, Webster & Comforti.

One Hundred and Sixteenth St., n e cor. Madison Ave., 5 five-st'y brick and stone flats; cost, \$94,000; owner, Michael P. McDonough; architect, T. P. Neville.

Tenth Ave., s e cor. Ninety-fourth St., 3 five-st'e brick flats, tin roofs; cost, \$120,000; owner, Georgy W. Eggers, 168 West Ninety-ninth St.; architect, Edward Wenz, 1491 Third Ave.

CHURCHES.

Baltimore, Md. (Suburbs). — Stone church, 48' x 50' for Episcopal Society; contract to be let; architects, Longfellow, Alden & Harlow, Boston.

Louisville, Ky. — Contract for building the Second Presbyterian Church, to cost \$20,000, has been awarded to Messrs. Craig & Gifford.

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Camden, N. J. — Cherry St., No. 527, rear, two-st'y brick factory; owners, Wm. H. Wilkins & Co.

Chicago, Ill. — Nathan Newfeld, factory, 417-419 Fifteenth St.; cost, \$15,000.

Philadelphia, Pa. — Bermuda St., s e, n Tucker St., two-st'y glue-factory; owner, S. S. Talcott, 1812 Van Buist Ave.

Springfield, Mass. — Chestnut and Sharon Sts., three-st'y frame organ factory; cost, \$8,000; owners, Steere & Turner.

HOSPITALS.

Philadelphia, Pa. — Lehigh Ave., n s, w Front St., three-st'y hospital building; contractor, Geo. F. Payne & Co., 401 South Juniper St.

HOUSES.Baltimore, Md. — Chas. Milake, 4 three-st'y brick buildings, n s Baltimore St., bet. Patterson Park Ave. and Bradford Alley.
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Boston, Mass.—Barrington St., near Columbia St., Ward 24, 2 two-st'y frame dwellings, hip roofs, 26' x 60'; owner, Neil McNeil; builders, McNeil Bros.

Magnolia St., opp Lawrence Ave., Ward 24, frame dwell., 31' x 41.6'; owner, H. P. Clark; builder, D. Currier.

Spencer St., No. 11, Ward 24, frame dwell., 20' x 43'; owner, Mrs. E. R. Laws; builder, A. C. H. Laws.

Stanley St., near Quincy St., Ward 24, frame dwell., 25' x 42'; owner, Neil McNeil; builders, McNeil Bros.

Dell St., near Wrentham St., Ward 24, two-st'y frame dwell., hip roof, 27' x 41.6'; owner, E. P. Pond; builders, C. A. Dearborn & Co.

Van Winkle St., near Dorchester Ave., Ward 24, frame dwell., 26' x 28'; owner and builder, I. Schurman.

Jewett St., near Neponset Ave., Ward 23, three-st'y frame dwell., flat roof, 24' x 40'; owner, Catharine McGovern; builder, E. Bryant.

Goldsmith St., near Centre St., Ward 23, three-st'y frame dwell., hip roof, 24' x 49'; owner, J. Gray; builder, J. Flynn.

Prospect St., near Birch St., Ward 23, frame dwell., 27.6' x 37'; owner, W. Evers; builders, Swanson & Murray.

Cambridge, Mass.—Brattle St., frame dwell., 31' x 46'; owner, Mrs. A. L. Devens; architects, Longfellow, Alden & Harlow, Boston; builder, Reuben Edgett.

Camden, N. J.—Sixth and Cherry Sts., 10 two-st'y brick dwellings; owners, Robbins Bros., Mount Vernon St.

South Eighth St., Nos. 829-831, 2 two-st'y brick dwellings; owner, Aaron Ward.

Walnut St., s s, w Fifth St., 3 two-st'y brick dwellings; owners, Kaighn & Holl.

Sixth St., n e cor. Pearl St., two-st'y brick dwell.; owner, Smith Costello, Haddon Ave.

Broadway, No. 1024, two-st'y frame dwell.; owner, Louis F. Fols.

Cherry St., s s, ab. Third St., 3 two-st'y brick dwellings; owners, Robbins Bros., 571 Mount Vernon St.

Lemon St., s s, Ward 8, two-st'y frame dwell.; owner, Isidore Green, Liberty Park.

Chestnut St., s s, e Locust St., two-st'y brick dwell.; owner, Wm. Severns, Fifth and Berkley Sts.

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St. bet. Fourth and West and Beckett and Line Sts., 7 two-st'y brick dwellings, and stores; owner, Jas. J. White, Third and Washington Sts.

Chicago, Ill.—Potter Palmer, 5 three-st'y dwell s., 56-64 Cedar St., cost, \$35,000.

A. V. Brown, dwell., Work St., near Harvard St.; cost, \$1,700.

William Gannott, three-st'y dwell, 3122 Lowe Ave.; cost, \$4,000.

B. Trimmerman, two-st'y and basement brick dwell., 382 South Leavitt St.; cost, \$6,000.

E. K. Pollard, two-st'y dwell., Sidney Ave.; cost, \$10,000.

Sarah M. Baker, eight cottages, 29-43 Ward St.; cost, \$8,000.

F. Krof, cottage, 901 North Hoyne Ave.; cost, \$1,200.

Cincinnati, O.—Mrs. S. Nordman, two-and-one-half-st'y brick and stone dwell., Fodick St.; cost, \$3,000; architects, Reig & Marty.

Chas. Rudloff, two-and-one-half-st'y brick and stone dwell., Straight St., cost, \$3,100; architects, Reig & Marty.

H. Ferguson, two-and-one-half-st'y frame dwell., Euclid Ave.; cost, \$2,600; architect, W. W. Franklin.

Detroit, Mich.—E. P. Van Leyen, two-st'y frame dwell., 330 National Ave.; cost, \$2,500; also two-st'y frame dwell., 230 Harper Ave.; cost, \$2,500.

H. W. Holcomb, frame dwell., 416 Lincoln Ave.; cost, \$3,000.

T. J. Cornes, brick double dwell., 16-18 Pine St.; cost, \$4,000.

Fall River, Mass.—Highland Ave., brick dwell., 38' x 45', with L. 20' x 31', and stable, 26' x 52'; cost, abt. \$35,000; owner, J. M. Leonard; contract to be let; architects, Franz E. Zerrahn and A. M. Marble, Boston.

High St., frame dwell., 38' x 42'; cost, \$8,000; owner, Wm. H. Lovell; contract to be let; architects, Franz E. Zerrahn and A. M. Marble, Boston.

High St., frame dwell., 37' x 40'; cost, abt. \$7,000; owner, J. W. Grouard; contract to be let; architects, Franz E. Zerrahn and A. M. Marble, Boston.

Belmont St., frame dwell., 32' x 46'; cost, abt. \$6,000; owner, Mrs. C. E. Burdick; contract to be let; architects, Franz E. Zerrahn and A. M. Marble, Boston.

Holyoke, Mass.—Pleasant St., eight-room cottage; cost, \$3,000; owner, Mrs. J. B. Williams; contractor, D. B. White.

Camp St., frame dwell.; cost, \$3,300; owner, A. Van Oppen; contractor, H. L. Morehouse.

Minneapolis, Minn.—Josephine Libby, two-st'y frame dwell., 1132 Lyndale Ave.; cost, \$3,500.

Hans Simonson, 2 two-st'y frame dwellings, 211-213 Beacon St., s e; cost, each, \$3,250.

August Gagnon, two-st'y frame dwell., 2215 Polk St., n e; cost, \$3,200.

Mary Dahl, three-st'y brick dwell. and store, 719-721 Third St., s; cost, \$1,200.

BUILDING INTELLIGENCE.

Gust Hagburg, two-st'y frame dwell., 2301 Irving Ave., n; cost, \$3,000.

Geo. H. Hait & Co., 2 two-and-one-half-st'y frame dwellings, 2824-2826 Park Ave., s; cost, each, \$6,000.

Geo. H. Hait & Co., two-and-one-half-st'y frame dwellings, 1931 Park Ave.; cost, \$10,000.

Geo. H. Hait & Co., 2 two-and-one-half-st'y frame dwellings, 1923-1925 Park Ave.; cost, each, \$8,000.

H. A. Barnes, two-st'y frame dwell., 1309 East Twenty-seventh St.; cost, \$3,000.

C. P. Stedman, double two-st'y frame dwell., 700-702 Oak Lake Ave.; cost, \$8,000.

A. R. Rubrith, double two-st'y brick veneer dwell., 537-539 Colfax Ave., n; cost, \$4,200.

Philadelphia, Pa.—Jackson St., s s, w Ninth St., 17 two-st'y dwellings; owner, Geo. M. Kirby, 1855 South Carlisle St.

Siegel St., n s, w Twentieth St., 8 two-st'y dwellings; owner, John A. Begley, 1513 Federal St.

Hooper St., s s, w Forty-fifth St., 7 two-st'y dwellings; owner, John Bateson, Jr., 4505 Lancaster Ave.

Sixteenth St., w s, n Dauphin St., three-st'y dwell.; owner, Owen McKenna, 1718 North Twentieth St.

Dauphin St., w Sixteenth St., 4 three-st'y dwell.; owner, Owen McKenna, 1718 North Twentieth St.

Junia St., n s, e Freedland St., 7 two-st'y dwellings; contractor, A. A. Harner, Freedland Ave., Wisc.

Twenty-fifth St., s Lombard St., two-st'y dwell.; contractor, Edward Gillen, 2441 South St.

Dutton St., No. 1711, three-st'y dwell.; contractor, H. G. Streeton, 141 Hazel St.

D St., w s, n Somerset St., 2 two-st'y dwellings; owner, John Brennan, 2823 D St.

Eighteenth St., n w cor. Sansom St., Pompeian brick dwell., trimmed with Indiana limestone; owner, Edmund D. Lewis; architect, R. G. Kennedy, Drexel Building.

East Building, e s, s Mifflin St., 7 two-st'y dwellings; owner, J. J. Cassidy, 1102 Camilla St.

Snyder Ave., n s, w Fourth St., 16 two-st'y dwellings; owner, J. J. Cassidy, 1102 Camilla St.

Pomona Terrace, s s, w Morton St., 2 two-st'y dwellings; contractor, Robert Christy, Mower St., Mt. Airy.

Forty-fourth St., e s, s Locust St., 2 two-st'y dwellings; owner, Thos. Marshall, 250 South Forty-fourth St.

Fifth St., e s, n Wolf St., 7 two-st'y dwellings; owner, John McConaghy, 1710 Christian St.

Tree St., n and s s, w Second St., 30 two-st'y dwellings; owner, Benj. F. Slack, 712 Tree St.

Nassau St., n s, w Twenty-first St., two-st'y dwell.; contractor, W. W. Binder, 1909 Columbia Ave.

Laycock St., s s, e Eightieth St., two-st'y dwell.; owner, Thos. Himmelwright, Island Rd. and Tincum Ave.

Fifth St., e s, n Erie Ave., 10 two-st'y dwellings; owner, Jas. B. Carey, 3806 North Broad St.

TIN PLATES

— AS A —

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For a number of years the use of tin-plate has been recommended as the most serviceable of all roofing materials, by the most noted architects and practical builders of this country. Along with their extensive use came the trickery of dishonest importers, of palming off cheap and nasty plates, that were thinly coated, and full of defects that were invisible to the naked eye, that could be sold at lower figures than those imported by houses that thought as much of their reputation as the profit made on their sales. These practices became so universal that it was only a question of time until tin plates would be forced out of the markets. It was the house of Merchant & Co., of Philadelphia, that instituted the practice of guaranteeing every box of plates, then stamping the brand and thickness on every sheet, and excluding wasters or defective sheets, and lastly by branding the net weight of the 112 sheets on each box, to satisfy the customer (in this age of light-weight plates) that he obtained full weight and just what he paid for. The action of the firm was at once a stab at the dishonesty in tin plates and is being felt from ocean to ocean. The firm now come out with the broad declaration for the benefit of those that want the very best roofing plates, that what they assert and claim that they are prepared to prove, that there are no other brands of roofing tin offered in the market to-day, by any firm, under the four different guarantees given by them, and they challenge a public contradiction of the statement. (Their brands are "Gilbertson's Old Method," Merchant's Roofing and "Camaret.") The writer has given this matter a great deal of attention in the past few years, and he has no hesitancy in stating in these columns, and without favor to this house or partiality to them in any way, that he does not for a single moment question the veracity of the statements, but asserts that he knows them to be the truth, the whole truth and nothing but the truth.— *From the Pittsburgh "Journal of Building," Dec. 1st, 1889.*

BUILDING INTELLIGENCE.

Carey St., n s, w Fifth St., 10 two-st'y dwells.; owner, Jas. B. Carey, 2-06 North Broad St.
Bulter St., n s, w Fifth St., 10 two-st'y dwells.; owner, Jas. B. Carey, 3806 North Broad St.
Tower St., bet. Penn and Cedar Sts., 7 two-st'y dwells.; owner, Edward Haugh, 4506 Barker St.
Mount Pleasant Ave., n s, e McCallum St., two-st'y dwell.; contractor, 314 Haines St.
Springfield, Mass.—Mr. Walton, dwell., Palmer Ave.; cost, \$8,000.
Thomson St., dwell.; cost, \$6,000; owner, Geo. M. Flagg; builder, H. H. Stacy; mason, B. Robinson.
St. Louis, Mo.—Vandercenter Pl., brick dwell. with stone trimmings, 30' x 67'; cost, abt. \$15,000; owner, Mrs. John O. Shepley; contract to be let; architects, Shepley, Rutan & Coolidge, Boston.
 Two-st'y brick dwell.; cost, \$3,000; owner, Mrs. Boka; contractor, F. Dullenheim.
 Two-st'y and mansard brick dwell.; cost, \$2,700; owner, S. Hellmers; contractor, F. Dullenheim.
 Two-st'y brick dwell.; cost, \$3,100; owner, H. Telpel; contractor, L. Horman.
 Two-st'y brick dwell.; cost, \$4,700; owner, Mary Pope; contractor, L. Horman.
 Two-st'y brick dwell.; cost, \$2,500; owner and contractor, F. W. Kunst.
 Two-st'y brick dwell.; cost, \$3,000; owner and contractor A. J. Riddle.
Swansea (Fall River).—Frame dwell, 28.6' x 31', with L, 12' x 21.6'; stable, 25.6' x 10.6'; cost, abt. \$11,000; owner, A. H. Skinner; architects, Franz E. Zerrahn and A. M. Marble, Boston; builders, Clark & Bullock.

OFFICE-BUILDINGS.

Philadelphia, Pa.—Twenty-sixth St., e s, n York St., one-st'y office; contractor, C. C. Haines, 1308 Master St.
 Commerce St., No. 523, one-st'y office; contractor, R. B. Clark, 778 North Twenty-seventh St.

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Publishers' Notice.

OUR Subscribers are requested to notice the terms (as stated in our issue of Nov. 9) upon which our extra plate for the coming year will be issued.

To all prepaying subscribers who
subscribe direct to us

it will be sent upon the following terms:— with the INTERNATIONAL and the IMPERIAL editions free, and with the REGULAR edition upon receipt of fifty cents extra. These terms are for our direct subscribers only.

Those who send their subscriptions through other channels to us can obtain the plate by sending us one dollar. To all others the price will be three dollars.

We have decided to print the Engraving upon heavy Japan paper, 18 x 24, instead of common plate paper as first announced, and it will be issued as a supplement with our number for January 18, 1890, upon the above conditions.

TICKNOR & COMPANY,

Publishers "The American Architect."

BOSTON, Dec. 1, 1889.

BUILDING INTELLIGENCE.

SCHOOL-HOUSES.

New London, Conn.—Three-st'y brick and stone grammar school-house, 79' x 88'; cost, abt. \$30,000; contract to be let; architects, Shepley, Rutan & Coolidge, Boston.

STABLES.

Boston, Mass.—Kilton St., rear, near Wheatland Ave., Ward 24, one-st'y frame stable, pitch roof, 24' x 30'; owner and builder, W. A. Lent.
 Centre St., No. 115, rear, Ward 24, two-st'y frame stable, 40' x 80'; owner, C. L. Hinds.
Camden, N. J.—Atlantic Ave., Liberty Park, one-st'y frame stable; owner, Jacob Glandel.
 Branch St., s s, e Broadway, one-st'y frame stable; owner, Eli B. Morgan.
 Chestnut St., No. 818, rear, one-st'y frame stable; owner, Charles H. Peters, 816 Chestnut St.
 Seventh St., ab. Linden St., one-st'y corrugated-iron stable; owner, Richard McAllister, 1315 North Sixth St., Philadelphia.
 Pearl St., No. 417, one-st'y galvanized-iron stable; owner, A. J. Lewis, 415 Pearl St.
 South Sixth St., No. 1617, rear, one-st'y frame stable; owner, Charles Shumaker, 1617 South Sixth St.
 Mount Ephraim Pike, one-st'y frame stable and shop; owner, Michael Riley, Mount Ephraim Pike.
Philadelphia, Pa.—Twenty-seventh St., w s, n Huntington St., two-st'y stable; owners, J. D. Hevener & Son, 2610 North Twenty-seventh St.
 Winona St., n Morris St., two-st'y stable; owner, Wm. McKeon, 1 Bexley St.
 Emerald St., s e cor. Westmoreland St., two-st'y stable; contractors, McCartney & Oler, 2335 East Dauphin St.
 Carlisle St., w s, n Girard Ave., two-st'y stable; contractor, C. C. Haines, 1308 Master St.
 Laycock St., s s, e Eightieth St., one-st'y stable; owner, Thos. Himmelwright, Island Rd. and Tianticum Ave.
 Twenty-sixth St., e s, n Jefferson St., two-st'y stable; owner, Jas. McFarland, 2525 Jefferson St.

BUILDING INTELLIGENCE.

Moore St., s s, w Front St., two-st'y stable; owner, Wm. Clark, 108 Dickinson St.
Nineteenth St., e s, n Girard Ave., three-st'y stable; contractor, Jas. H. Young, 1902 South College Ave.

St. Louis, Mo.—One-st'y brick stable; cost, \$4,000; owners, Anheuser-Busch Brew. Ass'n; sub-let.

STORES.

Baltimore, Md.—Edwin F. Abell, four-st'y store-building, 210 Lexington St.
Camden, N. J.—Chestnut St., e Locust St., two-st'y brick store; owner, Wm. Severns, Fifth and Berkeley Sts.
 Atlantic Ave., No. 279, one-st'y frame store; owner, Thomas Davis, 201 Atlantic Ave.
Chicago, Ill.—S. D. Fallock, three-st'y store and flats, 945 West Division St.; cost, \$7,000.
 H. R. Durkee, 2 four-st'y stores and flats, 987-989 West Twenty-second St.; cost, \$20,000.
Detroit, Mich.—E. P. Van Leyen, three-st'y brick store and dwell., 1247 Jefferson Ave.; cost, \$9,000.
Louisville, Ky.—A seven-st'y iron and marble store-building, to cost abt. \$200,000, will, it is reported, be built by Jno. C. Lewis, Esq.
Minneapolis, Minn.—T. J. Anderson, store and dwell., 624 Hennipin Ave.; cost, \$8,000.
St. Louis, Mo.—Three-st'y brick store and dwell.; cost, \$3,500; owner and contractor, C. F. Busch.

TENEMENT-HOUSES.

Holyoke, Mass.—Chestnut St., six-tenement block; owner, John St. John.
 Pleasant St., brick tenement block; owner, J. A. Horton.
Minneapolis, Minn.—C. P. Stedman, double frame tenement-row, 582-588 Seventh Ave., s; cost, \$15,000.
 N. W. Whitmore, double two-st'y brick tenement, 142-144 North Tenth St.; cost, \$8,000.

MISCELLANEOUS.

Boston, Mass.—Rutherford Ave., east and west sides

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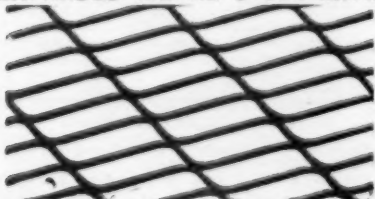
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Tibbett's Town Way estate, Ward 2, 4 one-st'y
frame freight-houses, flat roofs, 40' x 400'; owners,
Boston & Maine R. R. Co.; builder, H. Bissell.
Albany St., Nos. 710-728, Ward 18, three-st'y brick
machine shop, flat roof, 41' x 219'; owners, City of
Boston; builders, Gifford & Lawrence.
India St. and Central Wharf, seven-st'y stone and
granite building, to cover 11,555 feet, round corners,
triangular-shaped lot, fireproof throughout; cost,
abt. \$350,000, for Boston Chamber of Commerce;
contract to be let; architects, Shepley, Rutan &
Coolidge, Boston.
Camden, N. J.—Sargent and Jasper Sts., three-st'y
brick and stone fire-engine house; architects, Rowe
& Dagitt, 122 South Second St., Philadelphia.
Chicago, Ill.—W. C. Goudy, foundation, 238 Goethe
St.; cost, \$2,000.
Grand Rapids, Mich.—The Y. M. C. A. (under
Secretary Beattie), seven-st'y brick, stone and terra-
cotta building; cost, abt. \$75,000; architect, S. J.
Ongood.
Minneapolis, Minn.—P. T. Hatch & Co., founda-
tion for business row, 62-68 Eleventh St.; cost, \$4,
800.
New York, N. Y.—Fourth Ave., e s, 50' s One Hun-

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dred and Twenty-eighth St., one-st'y brick work-
shop, felt, asphalt and gravel roof; cost, \$3,000;
owner, Andrew Gerritty, 111 East One Hundred and
Twenty-fifth St.; architect, Charles Baxter, 133
East One Hundred and Twenty-fourth St.
Palmer, Mass.—Bet. Bank Block and R. R. Bridge,
three-st'y hall and library; owners, The Masonic
and Odd Fellows Building Association; architect
not selected.
Philadelphia, Pa.—North Twentieth St., No. 502,
three-st'y front building; contractor, E. E. Noch,
2831 Girard Ave.
North Front St., No. 2838, three-st'y back build-
ing; contractor, M. Morrison, 2040 Coral St.
Carpenter St., n e cor. Green St., one-st'y front
and back building; contractor, M. D. Whartman,
48 Mechlin St.
Josephine St., w s, n Church St., one-st'y boiler-
house; contractors, Quigley & Craig, 1517 North
Front St.
Christian St., n s, w Twenty-second St., one-st'y
Sunday-school building; contractor, Charles P.
Nesbitt, 425 Locust St.
Stocker St., No. 1021, two-st'y kitchen and bath;
owner, H. S. Wood, 653 South Seventeenth St.
Howard St., No. 2408, one-st'y kitchen; owner,
Davie Keen, 2406 Howard St.
Brown St., No. 2422, two-st'y back building; con-
tractor, Samuel Morrison, 351 North Fifth St.
Lombard St., No. 318, mansard roof; owner, Sam
Brono, 318 Lombard St. •

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Twenty-fourth St. and North College Ave., one-
st'y kitchen; contractor, A. Diederich, 1533 Vine St.
Seventeenth St., w s, s Willow St., two-st'y coal-
shed; contractor, Samuel R. Marriner, 1330 North
Nineteenth St.
Twenty-second St., cor. Columbia Ave., one-st'y
photo room; contractor, G. S. Huber, 2559 Reese St.
Ridge Ave., No. 3289, two-st'y back building; con-
tractor, Chas. E. Bartle, Thirty-third St. and Lehigh
Ave.
Thirtieth St., w s, n Spruce St., one-st'y iron
shop; owner, Samuel Richards, 838 Drexel Building.
Fourth St., e s, s Poplar St., three-st'y ice-house;
contractor, Chas. Auchter, 1523 North Twenty-sev-
enth St.
Hamilton St., n s, w Hamilton St., four-st'y
engine and boiler house; owners, Wm. Wood & Co.,
Twenty-second and Spring Garden Sts.
Third St., e s, n Cumberland St., three-st'y dye
and dry house, contractors, McCartney & Oler, 2355
East Dauphin St.
Buist Ave., No. 6200, two mansard roofs; con-
tractor, S. M. McClosby, 4021 Fairmount Ave.
South Tenth St., No. 240, one-st'y kitchen; owner,
Jas. L. Kane, 1604 South Eleventh St.
York Rd., No. 3259, two-st'y back building; owner,
Jos. Reichenbach, 3260 York Rd.
Lee St., No. 2518, one-st'y kitchen; contractor, F.
Ganz, 1654 North Fourth St.
Gray's Ferry Rd., n s, w Thirty-fourth St., one-
st'y building; owners, Harrison Bros. & Co., Gray's
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Third St., e. s. n Somerset St., one-st'y storage building; contractor, George W. Stewart, 2536 North Sixth St.
Swanson St., e. s. n Mifflin St., one-st'y storehouse; owners, Southwark Manufacturing Co.
South Sixteenth St., No. 344, one-st'y kitchen; contractor, R. J. Young, 2426 Poplar St.
James St., No. 151, one-st'y bath; contractor, C. Linachan, 3203 Ridge Ave.
Randolph St., No. 1224, two-st'y boiler-house; contractor, Philip Halbach, Twenty-sixth and Thompson Sts.
Frankford Ave., No. 1030, two-st'y kitchen and bath; contractor, Bernard Smith, 1745 North Eleventh St.

St. Louis, Mo. — Three-st'y brick stock-house; cost, \$12,000; owners, Cherokee Brew. Co.; sub-let.
Two-st'y brick shop; cost, \$6,000; owners, Ad-henser-Busch Brew. Ass'n.; sub-let.
One-st'y brick shop; cost, \$4,000; owners, Ad-henser-Busch Brew. Ass'n.; sub-let.

PROPOSALS.**LUMBER.**

(At New York, N. Y.)
NEW YORK, January 7, 1890.
Sealed proposals, indorsed "Proposals for Lumber, to be opened January 30, 1890," will be received at the Bureau of Provisions and Clothing, Navy Department, Washington, D. C., until 12 o'clock, noon, January 30, 1890, and publicly opened immediately thereafter, to furnish at the New York Navy Yard 12,000 feet white pine lumber.

The lumber must conform to the naval standard and pass the usual naval inspection.
Blank proposals will be furnished upon application to the Commandant of the Navy Yard or to the Bureau.

Tie-bids decided by lot.
The Department reserves the right to reject any or

PROPOSALS.

all bids not deemed advantageous to the Government.
JAMES FULTON,
Paymaster-General, U. S. Navy.

CEMENT.

(At Washington, D. C.)
OFFICE OF BUILDING FOR LIBRARY OF
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WASHINGTON, D. C., January 4, 1890.
Sealed proposals for furnishing and delivering about 12,000 barrels of natural hydraulic cement for the Building for Library of Congress, in this city, will be received at this office until 2 o'clock P. M., on Tuesday, the 21st day of January, 1890, and opened immediately thereafter in presence of bidders. Specifications, general instructions and conditions and blank forms of proposals may be obtained on application at this office.

BERNARD R. GREEN,
Superintendent and Engineer.

January 10, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 20th day of February, 1890, for all the labor and materials required to complete the stone and brick masonry of the superstructure of the United States Custom-house, Post-office, etc., building at Fort Townsend, Washington, in accordance with drawings and specifications, copies of which may be had on application to this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$500. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect.

STEEL.

(At San Francisco, Cal.)
MARE ISLAND, CAL., January 4, 1890.
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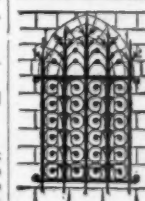
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ment, Washington, D. C., until 12 o'clock, noon, January 30, 1890, and publicly opened immediately thereafter, to furnish the Mare Island Navy Yard 3,521 pounds mild steel (round).

Blank forms of proposals will be furnished upon application to the Bureau, commandant Mare Island or the Navy Pay Office, San Francisco, Cal.

The articles must in all cases conform to the naval standard and pass the usual inspection.

The bids decided by lot.
The Department reserves the right to waive defects or to reject any or all bids not deemed advantageous to the Government.

JAMES FULTON,
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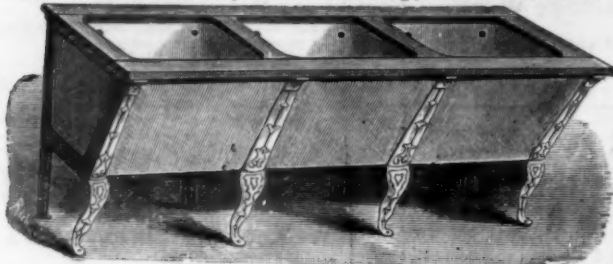
NEW YORK, N. Y., January 2, 1890.
Sealed proposals, indorsed "Proposals for Tools for Plumbers' Shop," will be received at the Bureau of Provisions and Clothing, Navy Department, Washington, D. C., until 12 o'clock, noon, January 30, 1890, and publicly opened immediately thereafter, to furnish at the New York Navy Yard a quantity of tools for plumbers' shop, consisting of an adjustable bar-folder, a turning machine, burring machines, one squaring-shear, one bench and slitting shear, one

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JAMES FULTON,

735 Paymaster-General, U. S. Navy.

MARINE BARRACKS.[At Norfolk, Va.]
HEADQUARTERS U. S. MARINE CORPS,
QUARTERMASTER'S OFFICE,
WASHINGTON, D. C., January 2, 1890.

Sealed proposals, in duplicate, are hereby invited and will be received at this office until 12 o'clock, noon, on Monday, the 27th day of January, 1890, at which time and place they will be opened in the presence of attending bidders, for furnishing all the necessary materials and labor, and constructing and erecting said barracks, in accordance with plans and drawings, which may be seen, and specifications, of which copies may be obtained, upon application to the undersigned.

Blank forms of proposals, embracing a general statement of provisions to be included in the contract for the construction of said barracks, and all other information essential to bidders, may be obtained upon application to this office.

Proposals must be made upon said blank forms and inclosed in sealed envelopes marked "Proposals for the Construction of a Marine Barracks at the Navy Yard, Norfolk, Va.," and addressed to the undersigned, who reserves the right to reject any and all bids, as in his judgment the interest of the Government may require.

H. B. LOWRY,

Major and Quartermaster, U. S. Marine Corps.
734December 26th, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 23d day of January, 1890, for all the labor and materials required for the glass ceiling over post-office working-room of the United States Court-House, Post-Office, etc., building at Louisville, Ky., including the iron, glass, wood and copper work, in strict accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect.
734**IRON-WORK.**[At Boston, Mass.]
OFFICE OF THE STATE-HOUSE CONSTRUCTION
COMMISSION, 27 MT. VERNON STREET,
BOSTON, MASS.

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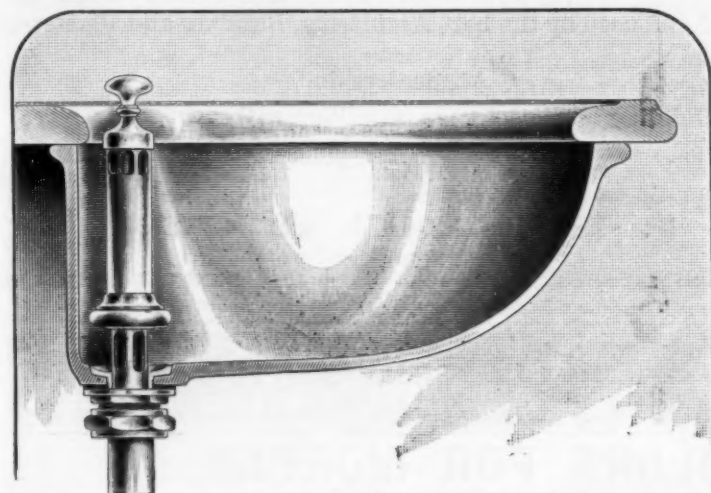
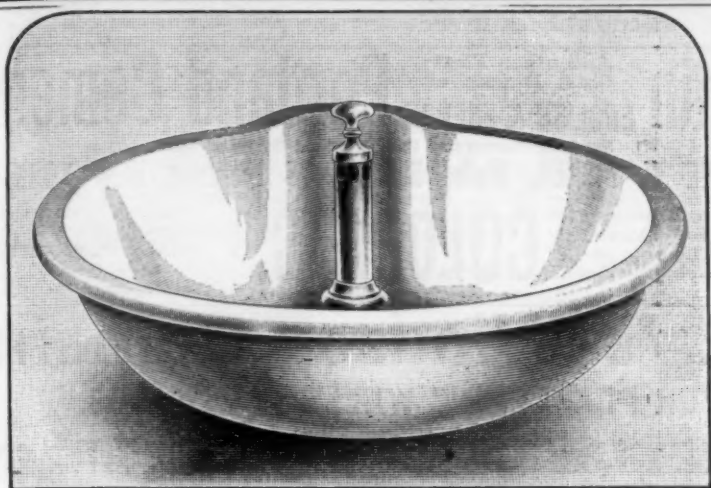


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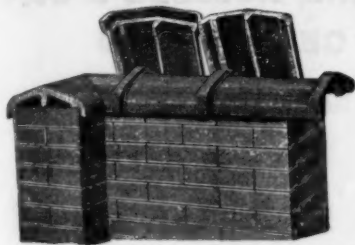
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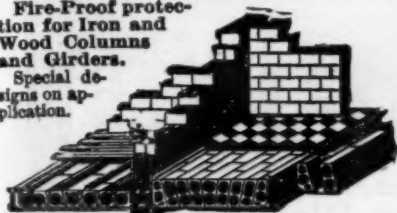
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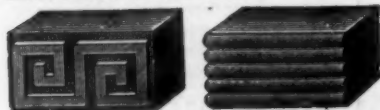
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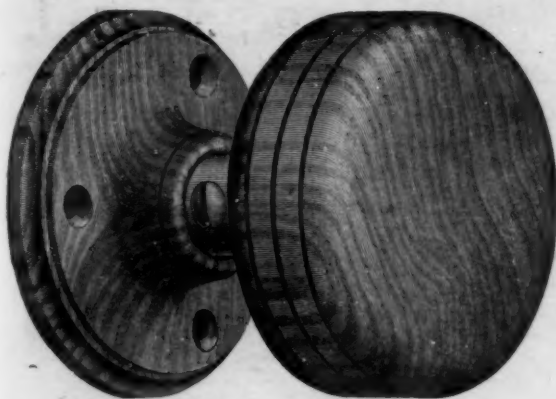
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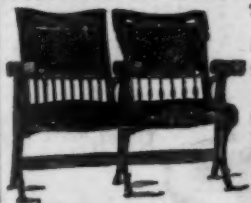
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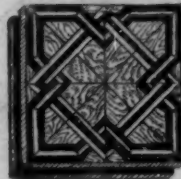
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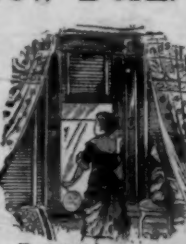
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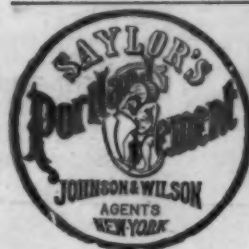
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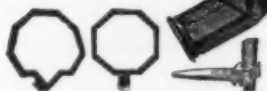
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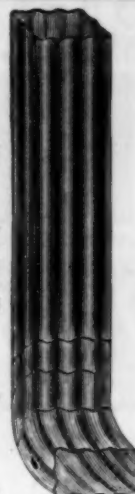
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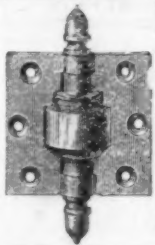
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Spruce.....	18 00 @ 25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
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Pine.....	@ 2 30	2 25 @ 2 35	@ 2 20	2 75 @ 3 00
Spruce.....	@	2 25 @ 2 50	Not sold.	2 30 @ 3 00
Shingles:				
Pine, shaved..... P. M.....	5 00 @ 6 00	@	Not sold.	@
Pine, sawed..... "	4 00 @ 5 00	@ 4 50	2 05 @ 2 30	@
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Redwood..... P. M.....	1 40 @ 1 60	3 75 @ 4 00	6 00 @ 7 50	30 00 @ 35 40
Cedar, split..... P. M.....	@	@	Not sold.	24 00 @ 28 21
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Oak, red.....	@ 70 00	50 00 @ 55 00	35 00 @ 40 00	45 00 @ 55 00
" white.....	@ 90 00	65 00 @ 80 00	45 00 @ 60 00	60 00 @ 75 00
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Sycamore quartered.....	@	50 00 @ 75 00	45 00 @ 55 00	60 00 @ 75 00
Pine, clear.....	65 00 @ 70 00	50 00 @ 75 00	45 00 @ 55 00	@ 65 00
Redwood.....	60 00 @ 70 00	60 00 @ 70 00	55 00 @ 65 00	60 00 @ 75 00
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Up River.	6 25 @ 6 75	9 75		Sq. " 9 00
Haverstraw Bay 2nd.	6 50 @ 6 75	Domestic Com.	Indiana Pressed	Light Stretchers
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Croton, Brown.	14 00 @ 15 00	Philadelphia		Dark " 15 00
" dark.	15 00 @ 16 00	40 00 @ 45 00		Pressed " 15 00
" red.	15 00 @ 16 00	Phila. mould		22 00 @ 26 00
Chicago pressed (Anderson).		50 00 @ 55 00		Best Paving " 16 00
Chicago Moulded.				Second " 14 00
Baltimore.	7 00 @ 41 00	Anderson		Third " 13 00
Philadelphia.	22 00	14 00 @ 32 00		
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Enamelled: Imp.	85 00 @ 100 00			
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" (White's).	2 55 @ 3 00	2 60 @ 3 00		
" French (Lafarge).	3 00 @ 3 75	3 00 @ 3 50		
" German (Alsen).	2 90 @ 3 25	3 15 @ 3 35		
" (Fowor).	2 25 @ 2 40			
" (Vorwoller).	2 50 @ 2 90			
" (Lagerlof).	2 90 @ 3 25			
" (Dykerhoff).	2 50 @ 3 00			
" (Hanover).	2 35 @ 2 85			
" Stettin (Anchor).	2 15 @ 2 45			
" American (Saylor's).	2 75 @ 3 00			
Roman.	5 15 @ 6 50			
Keene's coarse.	9 25 @ 10 25			
" superfine.				
LIME.				
Lime of Tall.	3 50 @ 4 00			
Hydraulic Lime.	@ 1 45			
Chicago Lime in bulk.				
Wisconsin.	@ 1 00			
Rockland and Rockport, (Conn.).	@ 1 20			
Rockland and Rockport, (Conn.).	@ 1 20			
Kelley Island Lime, (Conn.).	@ 1 20			
State, com. cargo rates (nom.).	@ 1 10			
State, finishing.	@ 1 10			
Plaster of Paris (selected).	1 20 @ 1 25			
" (casting).	1 30 @ 1 35			
Hair (Cattle) P bush.	12 @ 15			
" (Goat).	22 @ 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.				

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Black, brown, buff	2 1/2			
Colorific	2 1/2			
Red	3			
White	1 75			
Foundation:				
Dimension				
Block				
Rubble				
Blue stone (per sq. ft.)	30 @ 5.00	40 @ 1.75	75 @ 1.00	1 in. th. 10 @ 25
Sidewalk	50 @ 6.00		50 @ 1.00	37 @ 50
Planned				
Sandstone:				
Longmeadow	80	80 @ 90		
Kibbe	90	90 @ 1.10		
Brown (Connecticut)	1 00 @ 1.45	1 25 @ 1.45	1 50 @ 1.45	
Amherst	90 @ 95	90 @ 1.00	45 @ 50	
Berea	75 @ 1.00	80 @ 90	45 @ 55	
Berlin	75 @ 1.00	80 @ 90	55 @ 65	
Bellefonte	80 @ 1.25	1 25 @ 1.35		
New Brunswick (Dorchester)	80 @ 1.00	75 @ 90		
Olsen			2 00	
Carlisle, English	1 05		1 05	
Corse Hill (Scotch)	1 05		1 05	
Marble (per cu. ft.)				
Leo, Mass.	1 00	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			Not sold.	2 50 @ 2.75
Sienna			Not sold.	4 00 @ 6.00
Tennessee, red			Not sold.	3 00 @ 4.00
Knoxville			Not sold.	2 00 @ 3.00
Pennsylvania, blue			3 50 @ 6.00	2 25 @ 3.00
Vermont, white				
Slate, roofing (per square)	5 00 @ 6.00	4 75 @ 5.25	5 50 @ 6.10	2 30 @ 3.00
" green	5 00 @ 6.00	5 50 @ 6.50	6 50 @ 7.10	3 25 @ 3.75
" unfading	5 00 @ 6.00	5 50 @ 6.50	6 50 @ 7.10	3 50 @ 4.50
" purple	5 00 @ 6.00	10 00 @ 11.00	12 00 @ 14.00	7 50 @ 10.25
" red	4 25 @ 4.75		6 25 @ 6.85	3 25 @ 4.00
black, Lohigh			7 30 @ 8.00	4 00 @ 4.65
" Chapman			6 90 @ 9.00	5 50 @ 8.00
Unfading Black, Monson, Me.	5 50 @ 8.00	5 50 @ 8.00	Not sold.	6 00 @ 6.75
Tile, Am.				
N. Peach Bottom, warranted unfading				
PAINTS. (In oil, per lb.)				
White lead, Am.	7 @ 7 1/2	7 @ 7 1/2	6 @ 7	7 @ 7
" Zinc	5 @ 5 1/2	5 @ 5 1/2	4 @ 4 1/2	5 @ 5 1/2
Red lead, Am.	6 @ 10 1/2	7 @ 12	13 @ 2 1/2	6 @ 7
" Venetian	6 @ 10 1/2	7 @ 12	13 @ 2 1/2	6 @ 7
" Vermillion	6 @ 10 1/2	7 @ 12	13 @ 2 1/2	6 @ 7
Red Indian, Eng.	12 @ 20	12 @ 20	12 @ 20	12 @ 20
Yellow Ochre	6 @ 15	7 @ 12	3 @ 15	6 @ 15
Chrome	12 @ 20	18 @ 25	15 @ 25	12 @ 20
Green (chrome)	8 @ 13	8 @ 20	8 @ 20	8 @ 12
Green, Paris	25 @ 40	25 @ 40	18 @ 35	25 @ 40
Black, lamp	15 @ 25	15 @ 25	8 @ 30	15 @ 25
Blue, ultramarine	12 @ 18	18 @ 30	12 @ 25	12 @ 18
Oil, linseed, (raw)	57 @ 62	63 @ 64	61 @ 63	57 @ 62
" boiled	60 @ 65	60 @ 65	61 @ 63	60 @ 65
Turpentine	45 @ 46		51 @ 51	45 @ 46
Varnish, coach		1 50 @ 6.00	1 25 @ 2.00	
Shellac		2 50 @ 3.00	2 25 @ 4.00	
Putty	2 @ 4		02 @ 02 1/2	
Whiting	7 @ 1 00	1 @ 4	1 @ 1 1/2	
Paris white, (Eng.)	1 30 @ 2 00	2 @ 3	1 1/2 @ 2	
Litharge, Am.	54 @ 6	14 @ 20	4 @ 16	
Sienna (burnt)	14 @ 20	14 @ 20	2 @ 10	
Umber	14 @ 20	14 @ 20		

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10d. common	2 60			
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Lath	4 85			
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(For casing nails add 75c. per keg.)				
Butts: 4" x 4" (per doz. pairs)				
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Japaned	1 50	1 75	Not sold.	1 35 @ 2 00
Acorn, Japaned	1 50	1 90	2 00 @ 3 75	1 35 @ 2 75
Ball Tip, Boston Finish (per pair)	65		Not sold.	48 @ 50
Bronze metal	1 90	plain 1 65	2 00 @ 3 25	1 25 @ 1 00
Brass (for subboards)	10		12	35 @ 35
Ebony				37 @ 1 00
Apple wood				
Knobs: (per Set.)				
Mineral, best	8	75	8 @ 10	Not sold.
Lava	50	17 @ 33	31 @ 40	25 @ 50
Hemlock	30	10	25 @ 30	100 @ 2 50
Porcelain	Not sold	50	Not sold.	1 18 @ 2 00
Glass, solid	Not sold	88 @ 1 00	50 @ 50	50 @ 3 50
Glass, silvered	Not sold	50 @ 3 00	1 50 @ 3 00	78 @ 1 25
Bronze metal	75 @ 2 00	50 @ 3 00	13 00 @ 15 %	22 @ 35
Brass	1 00 @ 2 50	16 00 @ 17 00		6 @ 6
Solder:				
Sheet Lead				
Lead Pipe				
Iron:				
Beams, up to and including 30 ft.	3 3-10 @ 34	3 3-10		2 6-10
I-Beams, over 30 ft. 1, 1 1/2, 2 c. advance.	3 3-10 @ 34	3 3-10		2 6-10
Channel Beams				2 6-10

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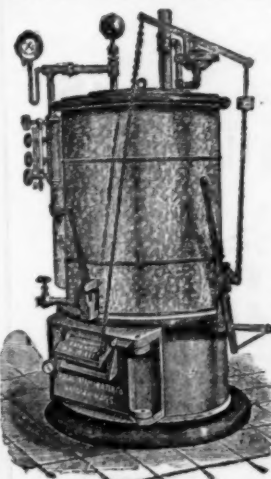
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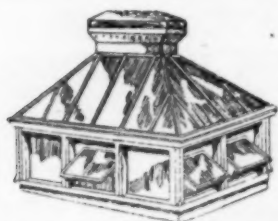


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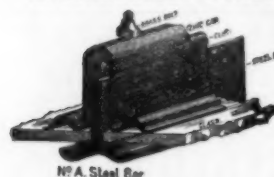
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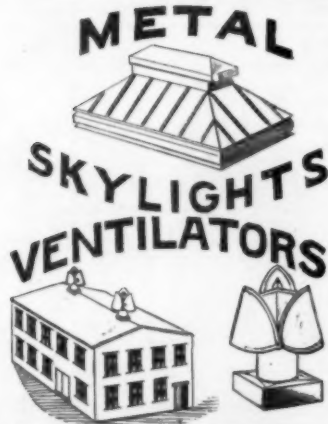


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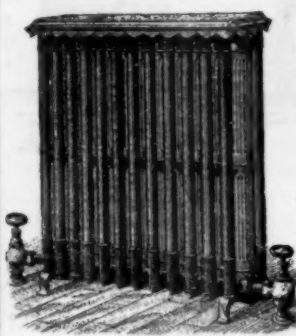
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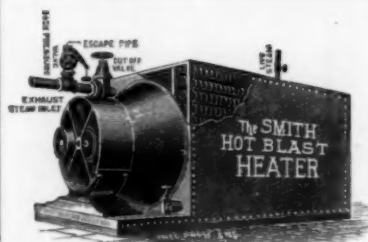
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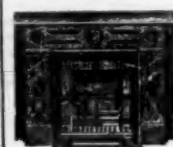
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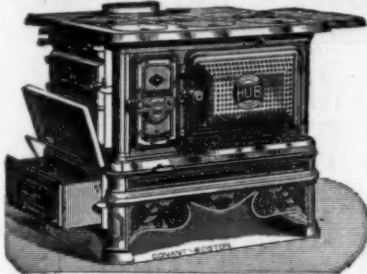
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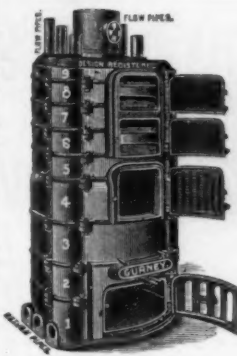
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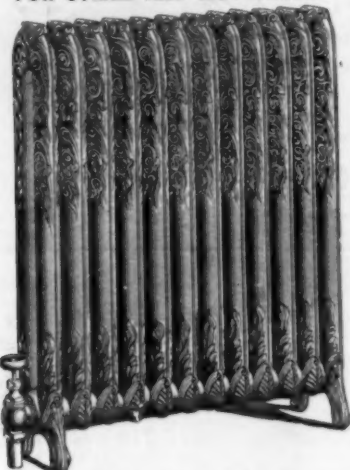
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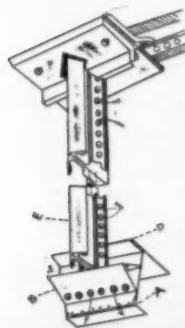
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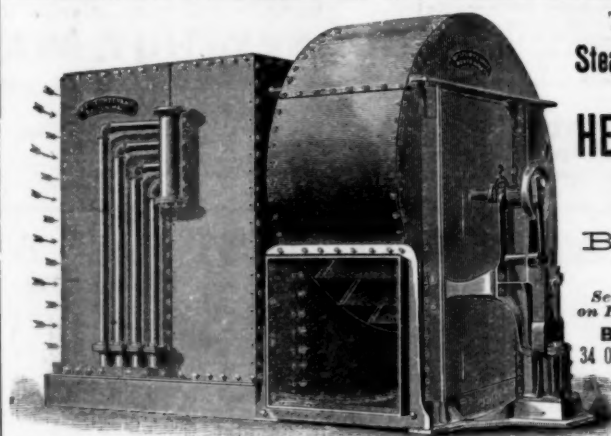
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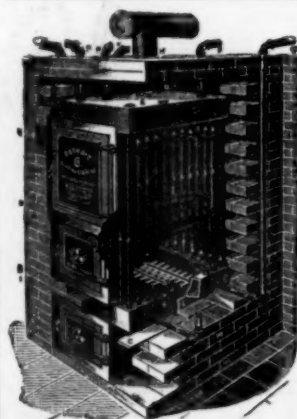
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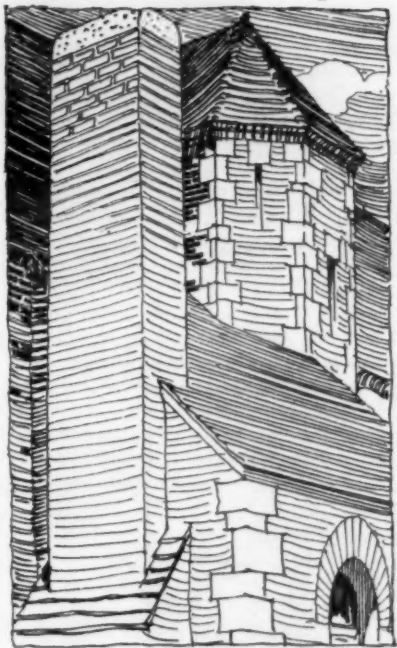
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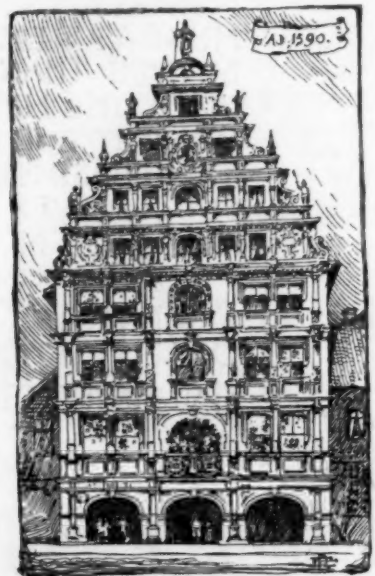
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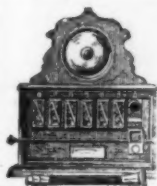
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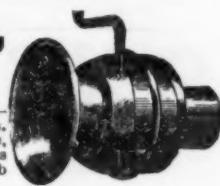
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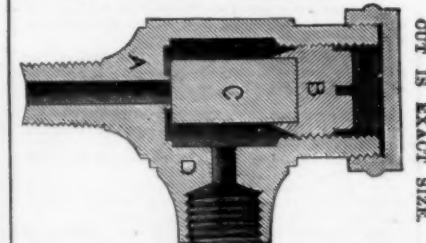
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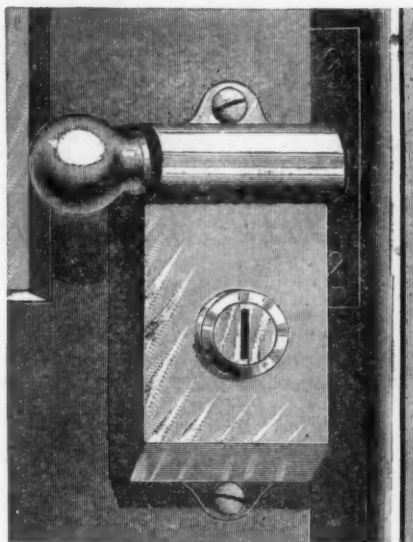
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BUILDING INTELLIGENCE.

(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.]

ALTERATIONS.

Boston, Mass.—Vale St., cor. Burnham St., Ward 15, remodel frame storage for stable purposes; 50 stalls to be put in; owners, Thompson & Baker Coal Co.; builder, Joseph Proctor.

COLORADO. Persons desiring authoritative information concerning the Agriculture, Mines, or Manufactures of Colorado; its resources, advantages, etc., with industrial and labor statistics, can receive, postage free, pamphlets, maps, etc., or answers to special inquiries, by addressing State Bureau of Immigration and Statistics, Denver, Col. 735

BUILDING INTELLIGENCE.

Hanover St., No. 287, Ward 6, alterations to brick stores; owner, John C. Haynes; builder, George Pope.

Dorchester Ave., No. 64, Ward 13, general repairs to brick stable and storage; 25 stalls to be put in; owner, E. N. Whitcomb; builder, B. D. Whitcomb.

Camden, N. J.—Pine St., foot of, frame extension for building of bucket-shop; owners, American Dredging Co.

Chicago, Ill.—William Waller, addition, 108-110 Randolph St., cost, \$10,000.

Chas. Miller, two-story rear addition, 581 Warren Ave.; cost, \$1,000.

N. Barrett, addition, 3129 Cottage Grove Ave.; cost, \$2,000.

Western Electric Co., two-story addition, 227-257 South Clinton St.; cost, \$30,000.

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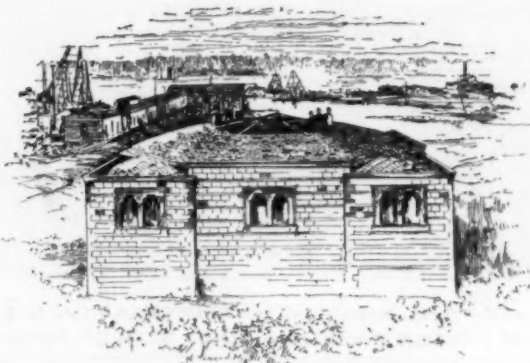
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C. C. Miller, two-st'y addition, 9025 Greenberg Ave.; cost, \$1,000.
Star Brewery, one and three-st'y addition, 1129-1141 Fulton St.; cost, \$45,000.
Philadelphia, Pa.—South Eighth St., Nos. 25-27, front alteration; contractor, Wm. P. Fogg, 114 North Thirteenth St.
Market St., No. 303, three-st'y back front to store; contractor, John Robinson, 1609 Christian St.
Cherry St., No. 922, three-st'y alteration and addition to factory; contractor, Lewis U. Bean, 2030 Vine St.
Arch St., No. 516, front and interior alteration; owners, Geo. F. Payne & Co., 401 South Juniper St.
North Tenth St., No. 252, one-st'y addition to back building; owner, R. B. Clark.
Nineteenth St., n. w. cor. Jefferson St., new front to building; contractors, N. W. Binder & Son, 1909 Columbia Ave.
Waterloo St., Nos. 2500-2502, two new fronts; owner, Louisa Reith, 1433 North Fifteenth St.
Eighteenth St. and Montgomery Ave., tower on church; architect, Chas. W. Bolton, 1510 Chestnut St.
Canal St., No. 1034, alteration of stable to dwell.; contractors, Brocklehurst & Ewing, 514 West Norris St.
North Front St., No. 2344, two-st'y addition to store; owner, Max Berg, at place.
Kensington Ave., No. 2644, two-st'y interior alteration to back building; contractor, Philip McGurk, 3139 Richmond St.
Randolph St., No. 1422, interior alteration; contractor, Philip Halback, Twenty-sixth and Thompson Sts.
Passyunk Ave., Nos. 753-761, one-st'y addition to factory; contractor, Andrew White, 321 Griscom St.
North Tenth St., No. 1825, new front to stable; contractor, Bernard Smith, 1745 North Eleventh St.
St. Louis, Mo.—Repair four-st'y brick store; cost, \$4,000; owner, A. W. Fagin; contractor, C. B. Clark.

APARTMENT-HOUSES.

Chicago, Ill.—Peter Lynch, two-st'y flats, 1255 Wilcox Ave.; cost, \$3,300.
Otto Schnabel, two-st'y flats, 524 Hastings St.; cost, \$2,000.
Louis Relehardt, two-st'y flats, 281 Hastings St.; cost, \$1,500.
Fred Ristow, two-st'y flats, 829 Washington Ave.; cost, \$1,500.

BUILDING INTELLIGENCE.

Charles Anderson, two-st'y flats, 5433 Tracey Ave.; cost, \$1,700.
Charles Kann, two-st'y flats, Sixty-ninth and Morgan Sts.; cost, \$2,000.
A. C. Biddell, four-st'y flats, 460 Dearborn Ave.; cost, \$30,000.
A. Park, 10 two-st'y flats, 63-79 Ambrose St.; cost, \$30,000.
Frank R. Meadowcroft, four-st'y flats, 247 Ohio St.; cost, \$10,000.
Robert Bulman, two-st'y flats, 1105 Wrightwood Ave.; cost, \$1,300.
F. Madeleuer, two-st'y flats, 156 Chicago Ave., rear; cost, \$2,000.
V. Marek, two-st'y flats, 679 Fairfield Ave.; cost, \$3,000.
H. G. Peters, two-st'y flats, 627 Fifteenth St.; cost, \$2,000.
John Micholson, three-st'y flats, 540 Thirty-third St.; cost, \$3,000.
Charles Olson, two-st'y flats, 1431 Nelson St.; cost, \$2,000.
Oscar Lundstrom, two-st'y flats, 1441 Nelson St.; cost, \$2,000.
Nels Olsen, two-st'y flats, 1451 Nelson St.; cost, \$2,000.
Louis Button and Fetter, 2 three-st'y flats, 529-531 Leavitt St.; cost, \$30,000.
Our Saviour's Church, two-st'y flats, 226 North May St.; cost, \$5,000.
A. P. Larsen, two-st'y flats, 301-303 West Huron St.; cost, \$3,000.
Anton Avare, two-st'y flats, 1019 Van Horn St.; cost, \$2,800.
P. A. George, 2 two-st'y flats, 4121-4123 Lake Ave.; cost, \$8,000.
H. Bergman, 6 two-st'y flats, 67-77 Florence Ave.; cost, \$8,000.
Peter Jacobson, two-st'y flats, 630 Davis St.; cost, \$1,500.
P. Ryan, two-st'y flats, 55 Myrtle St.; cost, \$2,000.
S. W. Roth, 4 two-st'y flats, Avers and Lake Sts.; cost, \$10,000.
Jas. Mainquist, two-st'y flats, 106 Crystal St.; cost, \$3,500.
Andrew Mattson, two-st'y flats, 5531 Atlantic St.; cost, \$2,700.
Jacob Bryer, two-st'y flats, Goodspeed St., near Forty-fifth St.; cost, \$1,000.
C. Lancaster, two-st'y flats, Dobson Ave., near Seventy-first St.; cost, \$1,300.



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BUILDING INTELLIGENCE.

J. H. Beard, two-st'y frame flats, Ravenswood Park; cost, \$1,800.
W. C. Meyer, two-st'y flats, 715 Sawyer Ave.; cost, \$1,000.
Adam Muller, two-st'y flats, 129 Orchard St.; cost, \$4,500.
F. C. Cleveland, three-st'y flats, 23 Thirty-third St.; cost, \$4,500.
Chas. E. Carlson, four-st'y flats, 118-120 Oak St.; cost, \$12,000.
Jacob Weiffenberg, three-st'y flats, 488 Winchester Ave.; cost, \$5,000.
E. J. Lehman, 4 three-st'y flats, 2301-2307 Dearborn St.; cost, \$12,000.
C. E. Hanson, three-st'y flats, 71 Ellen St.; cost, \$3,000.
New York, N. Y.—Avenue A, w s, 29th & 80th s Eighty-fourth St., 3 five-st'y brick flats, tin roofs; cost, \$16,000; owners, Moore & McLaughlin, 34 East Eighty-first St.; architects, Thom & Wilson, 1267 Broadway.
Tenth Ave., s e cor. Eighty-third St., 4 five-st'y brick flats, tin roofs; cost, \$4,000; owners, Burdell & Hodges, 206 East Fifty-sixth St.; architects, A. B. Ogden & Son, 1031 Madison Ave.

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BUILDING INTELLIGENCE.

Eighty-third St., s. s. 80' e Tenth Ave., 3 five-sty brick flats, tin roofs; cost, \$69,000; owners, Burchell & Hodges, 206 East Fifty-sixth St.; architects, A. B. Ogden & Son, 1031 Madison Ave.
Willett St., No. 51, five-sty brick flat, tin roof; cost, \$20,000; owner, Harry Harris, 161 Greenwich St.; architect, Charles Rents, 153 Fourth Ave.
Eighty-ninth St., s. s. 309' w First Ave., 2 five-sty brick flats, tin roofs; cost, \$30,000; owner, Fredk. Sauer, 548 East Eighty-seventh St.; architect, Frank Wennemer, 204 East Eighty-sixth St.
Seamwell St., n. w. cor. Munroe St., five-sty brick flat, tin roof; cost, \$20,000; owner, Asher Weinstein, 180 Henry St.; architect, Fred Waudelt, 158 Madison St.
West Fifteenth St., Nos. 227-229, 2 five-sty brick flats, tin roofs; cost, \$40,000; owner, Abraham Quackenbush, 218 West Thirty-seventh St.; architect, M. V. B. Fardon, 272 West Thirty-fourth St.
Fifty-sixth St., s. s. 175' e Tenth Ave., 2 five-sty brick flats, tin roofs; cost, \$34,000; owner, Robert Dick, 670 Ninth Ave.; architect, James W. Cole, 403 West Fifty-first St.
Eight Ave., s. w. cor. One Hundred and Third St., 3 five-sty brick flats, tin roofs; cost, \$100,000; owner, Charles H. Bliss, 1441 Broadway; architect, Douglass Smyth, 48 Exchange Pl.
One Hundred and Sixth St., n. s. 209' e Madison Ave., 4 five-sty brick flats, tin roofs; cost, \$64,000; owner and architects, George Matthias, 59 Liberty St.
Eight Ave., s. w. cor. One Hundred and Fourteenth St., 4 five-sty brick flats, tin roofs; cost, \$102,000; owner, Michael Benson, 1733 Third Ave.; architect, Richard R. Davis, 247 West One Hundred and Twenty-fifth St.
Seventy-first St., s. s. 75' 29' w Third Ave., five-sty brick flat, tin roof; cost, \$17,000; owner, Michael Reed, 210 East Sixty-second St.
Second Ave., s. e. cor. Ninety-fourth St., 4 five-sty brick, stone and terra-cotta flats; cost, \$100,000; owner, E. T. Hatch; architects, Schneider & Herter.

CHURCHES.

Philadelphia, Pa.—North Ninth St., Nos. 2334-2336, one-sty church-building; superintendent, Amanda Walp, 2823 Mervine St.

FABRIQUES.

Chicago, Ill.—D. H. Hayes, five-sty factory, 42-44 North Halsted St.; cost, \$25,000.
Nathan Newfield, factory, 417-419 Fifteenth St.; cost, \$15,000.

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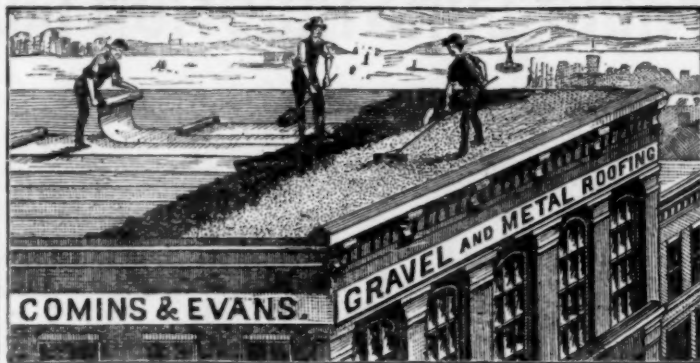
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BUILDING INTELLIGENCE.

Cincinnati, O.—Herman J. Groesbeck, six-sty factory, Eighth and Sycamore Sts.; cost, \$32,000; architect, H. E. Seiter.
New York, N. Y.—East Fifty-ninth St., No. 54, five-sty brick factory, metallic and fireproof roof; cost, \$25,000; owner, Wallace C. Andrews 2 East Sixty-seventh St.; architect, Frank H. Prentiss, 2 East Sixty-seventh St.
One Hundred and Sixty-third St., n. s. 150' e Courtland Ave., four-sty brick factory, tin and slate roof; cost, \$25,000; owner, Francis Kell, One Hundred and Sixty-second St., bet. Fleetwood and Morris Aves.; architect, S. C. Clark, 719 East One Hundred and Seventy-seventh St.
HOUSES.
Allston, Mass.—Gardner St., frame dwell., 28' x 48.6'; owner, James Blacker; contract to be let; architect, Eugene L. Clark, Boston.
Auburndale, Mass.—Woodland Ave., frame dwell., 32' x 46'; cost, \$7,000; owner, F. N. Peloubet; builder, J. H. McLeod; architect, Eugene L. Clark, Boston.
Baltimore, Md.—Henry Shamburg, 17 two-sty brick buildings, e s Charles St., bet. Barney and Wells Sts.
H. Kelly, 2 two-sty brick buildings, e s Durham St., bet. Eastern and Canton Aves.
Geo. Runneck, 3 two-sty brick buildings, s s Reinhardt St., bet. Parkin St. and Sheppard Alley.
Wm. M. Warfield, 3 two-sty brick buildings, w s Argyle Ave., and 3 two-sty brick buildings, e s Shields Alley, s Dolphin St.
Boston, Mass.—Parker St., No. 804, Ward 22, three-sty frame dwell., flat roof, 22.3' x 50'; owner and builder, Bernard Dooley.
Poplar St., near Hilburn St., Ward 23, frame dwell., 21' x 43'; owner and builder, Alexander Rogers.
East Lenox St., Nos. 79-83, Ward 20, 3 three-sty brick dwellings, flat roofs, 19.6' x 36'; owner, N. M. Jewett; builder, T. Connolly.
Whitney St., No. 36, and also rear, Ward 22, 2 three-sty brick dwellings, flat roofs, 29' x 26' and 21' x 36'; owner, Catherine O'Driscoll; builder, J. J. O'Driscoll.
Cambridge, Mass.—Agassiz St., frame and brick dwell., 31.6' x 49'; cost, \$7,000; owner, A. W. Blackman; builder, Christopher Leake; architect, Eugene L. Clark, Boston.
Dana St., cor. Harvard St., frame dwell., 43' x 45', with L, 24' x 34'; owner, O. H. Durrell; contract to be let; architects, Hartwell & Richardson, Boston.
Chicago, Ill.—A. C. Stewart, two-sty dwellings, 1208-1272 Wolcott St.; cost, \$3,800.
O. M. Wells & Co., 3 two-sty dwellings, 753-757 Madison Ave.; cost, \$12,500.
S. M. Cutler, two-sty dwell., Park Ave., near Pittsfield St.; cost, \$2,500.

BUILDING INTELLIGENCE.

F. S. Eberhardt, two-sty dwell., Park Ave., near Mowery St.; cost, \$1,400.
F. C. Berry, 2 three-sty dwellings, 4438-4440 Woodlawn Ave.; cost, \$9,000.
O. M. Brady, 9 two-sty dwellings, 85-99 Francisco St. and 1342 Carroll Ave.; cost, \$27,000.
T. Doyle, cottage, Claremont Ave. and Fifty-sixth St.; cost, \$1,200.
Peter Smith, two-sty dwell., 143 Wilton St.; cost, \$9,000.
F. E. Port, two-sty dwell., 34-45 Prairie Ave.; cost, \$6,000.
A. J. Bernbach, two-sty dwell., 2490 Commercial St.; cost, \$4,000.
Fred W. Speer, cottage, 295 Hirsch St.; cost, \$1,200.
M. Tonk, two-sty dwell., 594 Fullerton Ave.; cost, \$3,500.
Otto Shoening, two-sty dwell., 9239 Ontario St.; cost, \$1,000.
M. Hahn, cottage, Seventy-eighth St.; cost, \$1,200.
Herman Stadt, two-sty dwell., Mackinaw and Eighty-fifth Sts.; cost, \$2,300.
Mrs. D. Sprine, cottage, 337 Noble St.; cost, \$1,700.
W. Meaks, 2 two-sty cottages, Tracy Ave. and Fifty-sixth St.; cost, \$2,400.
F. C. Hageman, two cottages, 5006-5008 Butterfield St.; cost, \$1,600.
Geo. Higgins, three-sty dwell. and barn, 1237 Washington Boulevard; cost, \$10,000.
J. F. Keeney, three-sty dwell., 2623 Michigan Ave.; cost, \$50,000.
E. K. Pollard, two-sty dwell., Sidney Ave.; cost, \$10,000.
H. G. Eckstein, two-sty dwell., Vincennes Ave., near Forty-fourth Pl.; cost, \$7,000.
Joel Goldberg, two-sty dwell., 219 West Fourteenth St.; cost, \$1,000.
N. Willard, dwell., 910 Hoyne Ave.; cost, \$1,400.
John Ziegler, cottage, 383 North Lincoln St.; cost, \$1,000.
N. J. Robert, cottage, Sixty-first and Eberhart Sts.; cost, \$1,400.
J. W. Neely, three cottages, Winter St., near Fifty-seventh St.; cost, \$1,800.
Osher E. Anderson, 4 two-sty dwellings, Forty-fourth St. and Calumet Ave.; cost, \$20,000.
Carl Fisher, cottage, Ballou St.; cost, \$1,000.
J. Sagaser, three-sty dwell., 329 Park Ave.; cost, \$9,000.
Cincinnati, O.—Mrs. H. A. Taylor, 2 two-and-one-half-sty brick and stone dwellings, Colerain Ave.; cost, \$3,400; architects, G. & A. Brink.
Wm. Reinhart, two-and-one-half-sty brick and stone dwell., Dehl Ave.; cost, \$3,000; architect, E. F. Baude.
A. M. Strong, two-and-one-half-sty brick and stone dwell., Delaney St.; cost, \$2,500; architect, John Geisman.
Jas. Pfitzer, two-and-one-half-sty brick and

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Publishers' Notice.

OUR Subscribers are requested to notice the terms (as stated in our issue of Nov. 9) upon which our extra plate for the coming year will be issued.

To all prepaying subscribers who
subscribe direct to us

it will be sent upon the following terms:— with the INTERNATIONAL and the IMPERIAL editions free, and with the REGULAR edition upon receipt of fifty cents extra. These terms are for our direct subscribers only.

Those who send their subscriptions through other channels to us can obtain the plate by sending us one dollar. To all others the price will be three dollars.

We have decided to print the Engraving upon heavy Japan paper, 18 x 24, instead of common plate paper as first announced, and it will be issued as a supplement with our number for January 18, 1890, upon the above conditions.

TICKNOR & COMPANY,

Publishers "The American Architect."

BOSTON, Dec. 1, 1889.

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BUILDING INTELLIGENCE.

stone dwell., Dehl Pike; cost, \$3,000; architect, E. F. Baude.
Jas. Pfitzer, two-and-one-half-st'y frame dwell., Orchard St.; cost, \$2,500; architect, E. F. Baude.
Denver, Col.—*Pennsylvania Ave.*, cor. Twelfth Ave., pressed-brick dwell.; cost, \$25,000; owner, M. Spangler; architect, H. S. Roesschlaub.
Pennsylvania Ave., cor. Colfax Ave., red pressed-brick and red sandstone dwell.; cost, \$20,000; owner, Dr. Blinkensderfer; architects, Varian & Sterner; contractors, McQuade & Scott.
Alta St., cor. Twelfth Ave., two-st'y pressed-brick dwell.; cost, \$22,000; owner, A. W. Chamberlin; architects, Kidder & Humphreys; contractor, E. J. Volds.
Pennsylvania Ave., n e Colfax Ave., terrace of 4 three-st'y and basement dwell., red sandstone fronts; cost, \$50,000; owner, C. H. Smith; architect, J. J. Huddart.
East Hampton, Mass.—*South Main St.*, dwell.; owner, E. E. James; contractor, C. W. Smith.
New York, N. Y.—*Eighty-eighth St.*, s s, bet. Riverside Drive and West End Ave., 5 three-st'y brown-stone dwells., with extensions; owner, W. E. Lauchlan; architect, F. A. Minuth.
One Hundred and Fifty-second St., Nos. 533-537, 3 three-st'y brick dwells., tin and tile on tower roofs; cost, \$30,000; owner, Michael J. Mahoney, 126 West Eighty-seventh St.; architect, Daniel F. Mahoney, One Hundred and Fifty-eighth St. and Boulevard.
Northampton, Mass.—*Arlington St.*, dwell.; owner, L. K. Dean; contractors, Matthews Bros.
Philadelphia, Pa.—*McKean St.*, n s, w Front St.,

BUILDING INTELLIGENCE.

20 two-st'y dwells.; owner, J. J. Cassidy, 1102 Canilla St.
East Second St., w s, s Millin St., 10 two-st'y dwells.; owner, Michl. H. Brennan, 1032 South Ninth St.
Paethorp St., w s, n Berks St., 4 two-st'y dwells.; contractor, Wm. Golden, 1908 North Second St.
Sixteenth St., w s, n York St., 2 three-st'y dwells.; owner, John Loughran, 2544 North Eighth St.
Sixteenth St., w s, n York St., 17 two-st'y dwells.; owner, John Loughran, 2544 North Eighth St.
Gratz St., e s, w Dauphin St., 35 two-st'y dwells.; owner, L. A. White, 2328 North Fifteenth St.
Roberts Ave., w Germantown Ave., two-st'y dwell.; owner, W. J. Kelly, Roberts Ave.
Clay St., s s, w Chestnut St., 5 two-st'y dwells.; owner, O. S. Keely, 350 Green La.
Carlisle St., n w cor. Morris St., 2 three-st'y dwells.; owner, Robert Briggs, 1831 South Thirtieth St.
Broad St., e s, n Oxford St., three-st'y dwell., metal roof; contractor, Michael Magee, 1516 North Eighth St.
Leithgow St., w s, n Indiana Ave., 4 two-st'y dwells.; owner, Robert Buchanan, 2225 North Twenty-second St.
Marshall St., n w cor. Tioga St., 7 two-st'y dwells.; owners, F. Runckle & Co., 2352 North Third St.
Wayne St., s w cor. Brunner St., 6 two-st'y dwells.; owner, John Dear, Bonitz and Wayne Sts.
Lancaster Ave., n s, e Forty-eighth St., 6 two-st'y dwells.; owner, Charles Bateson, Jr., 848 Markoe St.
Springfield, Mass.—*Princeton St.*, two-st'y eight-room frame cottage, slate roof; owner, A. A. Ball; builders, J. B. Provost & Son.
St. Louis, Mo.—Two-st'y brick dwell.; cost, \$8,000; owner, N. J. Truitt; contractors, Peoples I. & B. Co.

BUILDING INTELLIGENCE.

Two-st'y brick dwell.; cost, \$3,500; owner, N. J. Truitt; contractors, Peoples I. & B. Co.
Two-st'y brick dwell.; cost, \$3,500; owner, A. Griesmeyer; contractor, J. Kreutner.
Two-st'y brick dwell.; cost, \$14,000; owner and contractor, J. J. Bizant.
Two-st'y brick dwell.; cost, \$6,000; owner, R. Mollenan; contractor, Phil. Riechers.
Three-st'y brick dwell.; cost, \$2,500; owner and contractor, A. Hoelscher.
Two-st'y brick dwell.; cost, \$14,000; owner, Jas. Taussig; contractor, W. C. Popp.
West Roxbury (Highland Station), Mass.—*Belle-rue St.*, frame dwell., 37' x 42'; cost, abt. \$7,500; owner, H. I. Smith; builder, W. S. Mitchell; architect, Eugene L. Clark, Boston.
Wollaston Heights, Mass.—Frame double dwell., 45' x 57'; owners, J. D. & W. Record; builder, Mr. Thomas; architect, Eugene L. Clark, Boston.
OFFICE-BUILDINGS.
Chicago, Ill.—Stearns Lime & Stone Company, two-st'y office and dwell., 751 Twenty-seventh St.; cost, \$2,000.
New York, N. Y.—*Pine St.*, Nos. 34-34, The Hanover Insurance Co. have decided to accept the plans of Chas. W. Clinton for the fireproof office-building which they will build.
Philadelphia, Pa.—*Wayne St.*, s s, one-st'y office; owners, Wayne Stone Co., s s Wayne St., w Logan St.
SCHOOL-HOUSES.
Chicago, Ill.—Hebrew Manual Training School, three-st'y school, 83-87 Judd St.; cost, \$60,000.
Westfield, Mass.—Three-st'y brick and brown-stone State Normal-school Building, pitch roof, 63'

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Baltimore, Md. — E. Pohl, two-sty brick stable,
rear s e cor. Druid Hill Ave. and Presstman St.

Boston, Mass. — Lincoln St., No. 27, Ward 25, one-
sty frame stable, pitch roof, 29' x 25'; owner, T.
Muldoon.

Medford St., rear, opp. Allston St., Ward 3, one-
sty frame stable, pitch roof, 25' x 30'; owner,
Stephen Cronin; builder, G. A. Garland.

Milton St., rear, near Moore St., Ward 1, one-sty
frame stable, pitch roof, 14' x 20'; owner and
builder, J. J. Austin.

Vernon St., rear, No. 21, Ward 19, three-sty
frame stable, flat roof, 41' x 73'; owner, N. J. Brad-
ley est.; builders, Gerry & Northrup.

Cambridge, Mass. — Washington Ave., frame stable,
28' 6" x 50'; owner, D. A. Ritchie; contract to be
let; architects, Hartwell & Richardson, Boston.

New York, N. Y. — Forty-third St., n s, 121' 1' w

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BUILDING INTELLIGENCE.

Second Ave., five-sty brick stable, tin roof; cost,
\$25,000; owner, Joshua F. Gibbs, 414 Lexington
Ave.; architect, Bruno W. Berger, 70 Bible House.

Eighty-ninth St., n s, 82' 2" w Park Ave., six-sty
brick and stone stable; cost, \$25,000; owner, E. J.
Curry; architects, Thom & Wilson.

Van Dam St., two-sty brick stable, gravel roof;
cost, \$4,000; owners, Sarah Strange and Willie E.
Bond, White Plains, N. Y.; architect, Charles E.
Hadden, 102 South Fifth Ave.

Forty-ninth St., s s, 73' e First Ave., three-sty
brick stable, tin roof; cost, \$3,000; owner, Matilda
Epstein, 331 East Fifty-seventh St.; architects, A.
B. Ogden & Son, 1031 Madison Ave.

Troy, N. Y. — Second and Washington Sts., rear,
brick stable, 30' x 40'; owner, C. E. Patterson;
builders, Nichols & McGill; architect, H. Langford
Warren, Boston.

Worcester, Mass. — H. P. Fairbanks, owner and
builder, one-sty barn, Lincoln St.

STORES.

Boston, Mass. — Mason St., cor. Tremont St., brick
and stone stores, 30' x 83'; to be occupied by Craw-
ley; cost, abt. \$60,000; owner, R. M. Bradley; con-
tract to be let; architects, Shepley, Rutan &
Coolidge.

Chicago, Ill. — Joseph Magee, three-sty store and
flats, 1336 West Van Buren St.; cost, \$5,000.

Victor Buschauer, two-sty store and dwell., 1174
West Harrison St.; cost, \$5,000.

Fred Sommer, two-sty store and flat, 6314 Cot-
tage Grove Ave.; cost, \$1,800.

James Cahill, three-sty store and flats, 748 West
Madison St.; cost, \$5,000.

Nannie Ross, four-sty store, 99 Milwaukee Ave.;
cost, \$10,000.

Charles Hafner, two-sty store and flats, 5717
State St.; cost, \$2,500.

D. & J. Hardin, four-sty store and flats, 3847-3849
State St.; cost, \$15,000.

A. Schindler, two-sty store and dwell., 441 Twen-
ty-first St.; cost, \$3,200.

A. Schaefer, three-sty store and flats, 1101 West
Twelfth St.; cost, \$5,000.

BUILDING INTELLIGENCE.

Jas. Considine, three-sty store and flats, 1937
West Madison St.; cost, \$6,000.

Frank Charan, four-sty store and flats, 514 North
Lincoln St.; cost, \$11,000.

M. Smito, 2 three-sty stores and flats, 448-450
South Western Ave.; cost, \$10,000.

John Greenfield, two-sty store and dwell., Centre
Ave. and Sixty-seventh St.; cost, \$1,600.

Philo A. Otis, two-sty store and dwell., 2291
Archer Ave.; cost, \$1,000.

Peter Lorengon, two-sty store and flats, 83
Thomas St.; cost, \$5,000.

R. Keynerston, one-sty store, 481 Thirteenth St.;
cost, \$1,200.

S. D. Pollock, three-sty store and flats, 845 West
Division St.; cost, \$7,000.

New York, N. Y. — Canal St., Nos. 539-536, 2 six-sty
brick stores and warehouses, tin roofs; cost, \$55-
000; owner, Morris S. Hermann, 28 West One Hun-
dred and Fifteenth St.; architect, Franklin Baylies,
52 Bible House.

Philadelphia, Pa. — Smedley St., e s, n Tioga St.,
two-sty store; contractors, W. Rose & Son, 1811
Marshall St.

Wayne St., s w cor. Brunner St., two-sty store;
owner, John Dear, Bonitz and Wayne Sts.

Sixteenth St., w s, n York St., 3 three-sty stores
and dwells.; owner, John Loughran, 244 North
Eighth St.

Walnut St., No. 3412, three-sty store and dwell.;
contractor, Robert Hamilton, 3423 Woodbine Ave.

St. Louis, Mo. — Three-sty brick store and dwell.;
cost, \$3,500; owner and contractor, J. Heas.

Two-sty brick store and dwell.; cost, \$14,400;
owner, Theo. Albes; contractor, Phil Riechers.

Seven-sty brick store; cost, \$60,000; owner, W.
H. Thompson; contractor, J. H. Bright.

One-sty brick store; cost, \$3,500; owner and con-
tractor, G. Schuchman.

Two-sty brick store and flats; cost, \$10,000;
owner, Jas. A. Duffy; contractors, J. B. Labarge &
Co.

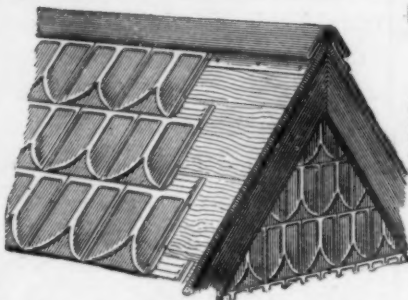
Seven-sty brick store; cost, \$22,000; owners,
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BUILDING INTELLIGENCE.**TENEMENT-HOUSES.****Springfield, Mass.**—S. E. Walton, tenement,
slate roof, Palmer St.**THEATRES.****Denver, Col.**—Broadway, bet. Seventeenth and Eight-
teenth Aves., eight-st'y red sandstone Broadway
Theatre and bachelors' apartments; cost, \$250,000;
owner, W. H. Bush; architect, J. N. Wood.**WAREHOUSES.****Chicago, Ill.**—C. R. Hayward & Son, one-st'y ware-
house, Wallace St., bet. Seventy-ninth and Eight-
tieth Sts.; cost, \$3,500.**Dr. C. H. Quinlan**, six-st'y warehouse, 218-220
Washington St., rear; cost, \$25,000.
A. H. Andrews & Co., seven-st'y warehouse, 333-
335 West Twenty-second St.; cost, \$12,000.**MISCELLANEOUS.****Billingsport, N. J.**—Lincoln Park Co. Corporation
for the Improvement of 47 Acres of Land, main
building with kitchen; the main wing is to be used
for a cafe; dancing-hall on the second floor; private
dining-rooms on the third floor; restaurant on the
first floor; wing building one-st'y high; complete
electric plant; architects and engineers, Rowe &
Dagitt, 122 South Second St., Philadelphia.**Boston, Mass.**—Cor. Bedford and Kingston Sts. and
Roose Pl., six-st'y brick and stone building, 115
on Bedford St. and 129 on Kingston; slow-burning
construction; owner, Fred L. Ames; contract to be
let; architects, Shepley, Rutan & Coolidge.**Chicago, Ill.**—Chicago, Boston & Liverpool Refriger-
ator Car Co., one-st'y building, Fifty-first St., n
Kedzie Ave.; cost, \$3,000.**Denver, Col.**—Colfax Ave., cor. South Eleventh St.,
three-st'y red sandstone jail building for Arapahoe
County; cost, \$250,000; architect, F. C. Eberly;
contractors, E. F. Hallack, L. & M. Co.**BUILDING INTELLIGENCE.****Glenarm St.**, bet. Fourteenth and Fifteenth Sts.,
brick and stone gymnasium for Denver Athletic
Club; cost, \$70,000; architects, Varian & Sterner.**Arapahoe St.**, bet. Twenty-first and Twenty-
second Sts., three-st'y stone and brick building for
Denver Turn Verein; cost, \$56,500; architects,
Shultz & Niere.**New York, N. Y.**—Montgomery St., No. 59, five-st'y
brick workshop, tin roof; cost, \$8,000; owners, Her-
man & Aaron, Forty-first St., Broadway and 259
Divis'on St.; architect, Louis F. Heinecke, 62 Bowery.**Philadelphia, Pa.**—South Seventeenth St., No. 1510,
two-st'y back building; contractor, John Linsin-
mayer, 1510 South Seventeenth St.**Thirteenth St.**, n e cor. Butler St., one-st'y
kitchen; owner, D. M. Collamer, Thirteenth and
Butler Sts.**Olney Station, Ward 22**, one-st'y rolling-mill and
shop; owners, Levering & Garrigues, 218 South
Fourth St.**Fifth St.**, e s n Montgomery Ave., one-st'y boiler-
house; contractors, Stewart Bros., 252 South Fifth
St.**Barker St.**, No. 1628, two-st'y shop; contractor,
John Williams, 29 South Eighteenth St.**Bet. Thirtieth and Thirty-first and Race and Vine
Sts.**, one-st'y smith shop; owners, Pa. R. R. Co.,
Thirty-second and Market Sts.**South Framingham, Mass.**—Four-st'y brick build-
ing, 87' x 96', for stores, offices and Masonic-hall in
third and fourth stories; contract to be let; archi-
tects, Hartwell & Richardson, Boston.**St. Louis, Mo.**—One-st'y brick power-house; cost,
\$13,000; owners, Union Depot Ry. Co.; contractors,
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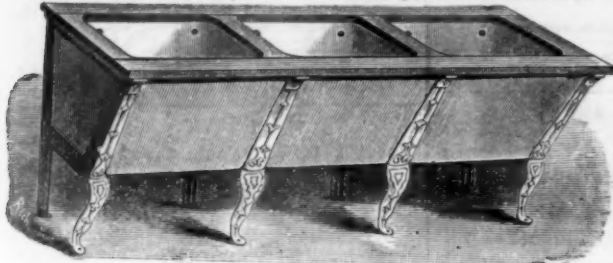
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lars of which will be sent on application."At its price, *The Cosmopolitan* is the brightest,
most varied and best edited of the magazines."—*New
York Times*.
Corner Fifth Avenue and Broadway, New York.**PROPOSALS.****IRON STAIRS.**(At Roxbury, Mass.)
CITY OF BOSTON.Sealed proposals, addressed to Hon. Thomas N.
Hart, Mayor, and indorsed "Proposals for Iron Stairs
for a High-School Building for the Roxbury District,"
will be received at the office of the city architect,
City-Hall, Boston, until 12 o'clock M. January 31,
and at that time will be publicly opened and read in
the office.The prices proposed must be stated both in words
and in figures, and all proposals containing bids not
called for in this advertisement will be considered in-
formal.Each bid must be signed by the bidder, and accom-
panied by a properly certified check for \$500, payable

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PROPOSALS.

to the city of Boston; said check to be returned to the bidder unless forfeited under the condition herein stipulated.

The amount and character of the securities for the fulfillment of the contract will be determined by the city architect after the proposals are opened.

If a bond is required with the contract, the sureties thereon must be residents of Massachusetts and satisfactory to the city architect.

The person or persons to whom the contract may be awarded will be required to appear at this office, with the securities offered by him or them, and execute the contract within four days (not including Sunday) from the date of notification of such award, and the preparation and readiness for signature of the contract; and, in case of failure or neglect to do so, he or they will be considered as having abandoned it, and the check accompanying the proposal shall be forfeited to the city of Boston.

Specifications and plans may be seen at the office of the city architect, City Hall, and the proposals are to be filled out on blank forms to be obtained at this office.

The city architect reserves the right to reject any or all bids, should he deem it for the interest of the city of Boston so to do.

735

H. H. ATWOOD,
City Architect.**BRICKS, CEMENT, ETC.**

[At Washington, D. C.]
OFFICE OF BUILDING FOR LIBRARY OF
CONGRESS, 145 EAST CAPITOL STREET.

WASHINGTON, D. C., January 11, 1890.
Separate sealed proposals will be received at this office until 2 o'clock P. M., on Thursday, the 6th day of February, 1890, and opened immediately thereafter in presence of bidders, for furnishing and delivering at the site of the Building for Library of Congress, in this city, the following approximate quantities of building materials:

1. 6,000,000 best red hard-burned bricks and 8,000 best red skewback bricks.
2. 100,000 best red hand-made bricks.
3. 4,000 cubic yards of river sand.
4. 800 cubic yards of broken stone.
5. 237,500 feet of lumber.
6. Small supplies of miscellaneous hardware.
7. 21,100 small iron-castings.
8. 1,200 barrels Portland cement.
9. 1,900 feet cast-iron drain and pressure pipe and fittings.

Specifications, general instructions and conditions and blank forms of proposal may be obtained on application to this office.

736

BERNARD R. GREEN,
Superintendent and Engineer.**VARNISH.**

[At Washington, D. C.]
SIGNAL OFFICE, WAR DEPARTMENT,
WASHINGTON, D. C., January 10, 1890.

Sealed proposals, in duplicate, subject to the usual conditions, will be received at the office of the Chief Signal Officer, in this city, until 11 o'clock A. M., on Monday, the 27th day of January, 1890, for furnishing the Signal Service 35 barrels asphalt or black varnish and 35 varnish brushes.

Persons desiring to bid can, upon application in writing, obtain from this office blank forms and instructions for bidding and full information in accordance with this letter.

735

A. W. GREELY,
Chief Signal Officer.**PLUMBERS' TOOLS.**

[At New York, N. Y.]
NEW YORK, N. Y., January 2, 1890.

Sealed proposals, indorsed "Proposals for Tools for Plumbers' Shop," will be received at the Bureau of Provisions and Clothing, Navy Department, Washington, D. C., until 12 o'clock, noon, January 30, 1890, and publicly opened immediately thereafter, to furnish at the New York Navy Yard a quantity of

PROPOSALS.

tools for plumbers' shop, consisting of an adjustable bar-folder, a turning machine, burring machines, one squaring-shear, one bench and slitting shear, one Hare's four-leaf brake, one lever punch, one slip roll-former, one single-plunger test-pump; also punches, dividers, wrenches, tongs, etc.

The articles must conform to the Navy standard, and pass the usual naval inspection.

Blank proposals will be furnished on application to the commandant of the Navy Yard or to the Bureau.

Tie-bids decided by lot.

The Department reserves the right to reject any or all bids not deemed advantageous to the Government.

JAMES FULTON,

Paymaster-General, U. S. Navy.

STEEL.

[At San Francisco, Cal.]
MARE ISLAND, CAL., January 4, 1890.

Sealed proposals, indorsed "Proposals for Steel, to be opened January 30, 1890," will be received at the Bureau of Provisions and Clothing, Navy Department, Washington, D. C., until 12 o'clock, noon, January 30, 1890, and publicly opened immediately thereafter, to furnish the Mare Island Navy Yard 3,521 pounds mild steel (round).

Blank forms of proposals will be furnished upon application to the Bureau, commandant Mare Island or the Navy Pay Office, San Francisco, Cal.

The articles must in all cases conform to the naval standard and pass the usual inspection.

Tie bids decided by lot.

The Department reserves the right to waive defects or to reject any or all bids not deemed advantageous to the Government.

JAMES FULTON,

Paymaster-General, U. S. Navy.

LUMBER.

[At New York, N. Y.]
NEW YORK, January 7, 1890.

Sealed proposals, indorsed "Proposals for Lumber, to be opened January 30, 1890," will be received at the Bureau of Provisions and Clothing, Navy Department, Washington, D. C., until 12 o'clock, noon, January 30, 1890, and publicly opened immediately thereafter, to furnish at the New York Navy Yard 12,000 feet white pine lumber.

The lumber must conform to the naval standard and pass the usual naval inspection.

Blank proposals will be furnished upon application to the Commandant of the Navy Yard or to the Bureau.

Tie-bids decided by lot.

The Department reserves the right to reject any or all bids not deemed advantageous to the Government.

JAMES FULTON,

Paymaster-General, U. S. Navy.

TO ENGINEERS AND CONTRACTORS.

Office of the Light-House Board, Washington, D. C., January 9, 1890. Proposals will be received at this office until 12 o'clock, noon, of Tuesday, the 1st day of July, 1890, for the design, the specifications, the complete construction and equipment, and the temporary maintenance of a light-tower on Diamond Shoal, off Cape Hatteras, North Carolina. By an act of Congress, the total cost of the light-station shall not exceed the sum of \$500,000. Specifications embodying the requirements of the structure, 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. DAVID B. HARMONY, Rear-Admiral, U. S. N., Chairman.

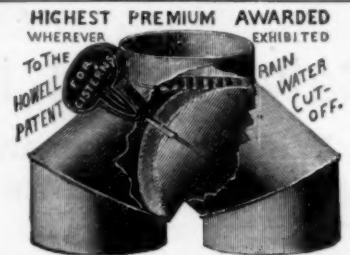
737

January 10, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 20th day of February, 1890, for all the labor and materials required to complete the stone and brick masonry of the superstructure of the United States Custom-house, Post-office, etc., building at Port Townsend, Washington, in accordance with drawings and specifications, copies of which may be had on application to this office or the office of the Superintendent. Each bid must be accompanied by a

COL. GEORGE E. WAR-
ING, JR., C. E. etc., in his recent work on Sewerage and Land Drainage, in speaking of traps liable to siphonage, says: "the best remedy would be to supply the defective traps at their summits with McClellan's Mercury Seal-Trap Vent, a perfectly safe device, of little cost, simple and easy of application, and sure to supply air when needed."

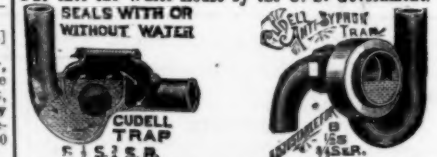
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PROPOSALS.

certified check for \$500. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect. 735

IRON-WORK.

[At Boston, Mass.]
OFFICE OF THE STATE-HOUSE CONSTRUCTION
COMMISSION, 27 MT. VERNON STREET,
BOSTON, MASS.

Sealed proposals will be received at this office until 12 M. on the 28th day of January, 1890, for furnishing and delivering at site of Massachusetts State-House extension, Boston, Mass., iron beams, plates, girders, columns and other iron and for work thereon, in accordance with drawings and specifications, copies of which and any additional information relating thereto may be had on application at the office of Brigham & Spofford, architects.

The Commissioners reserve the right to reject any and all bids, and bids received after the time named will not be considered.

JOHN D. LONG,
BENJAMIN D. WHITCOMB, } Commissioners.
WM. ENDICOTT, JR.

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Plate 843—G. The "SIMPLEX" Recess Basin and Waste. (Patented.)

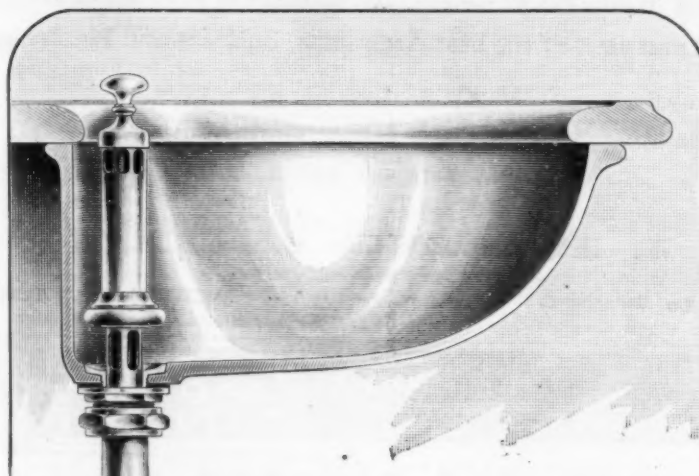


Plate 844—G. Cross Section of "Simplex" Recess Basin, showing Waste raised as when water is being let out of Basin.

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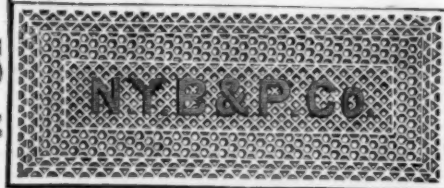
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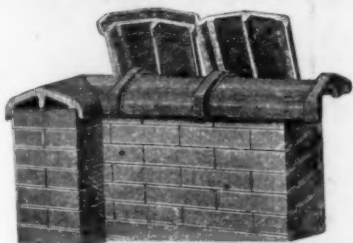
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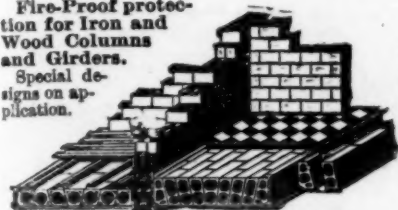
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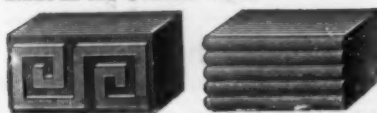
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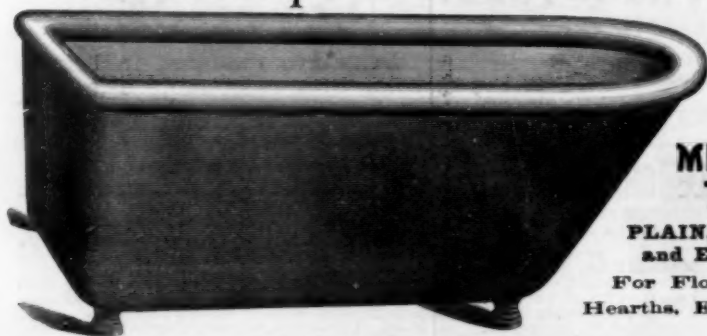
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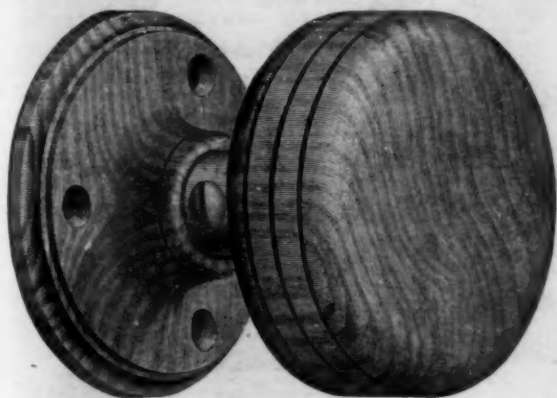
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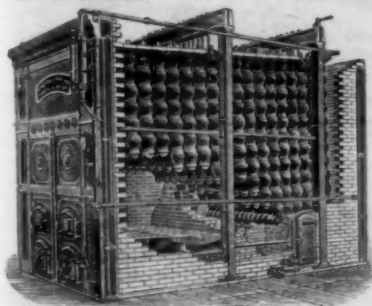
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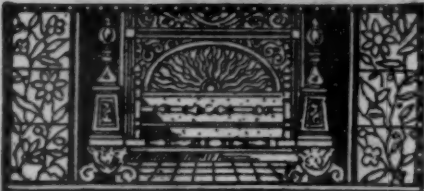
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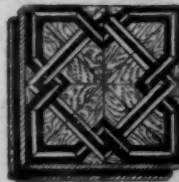
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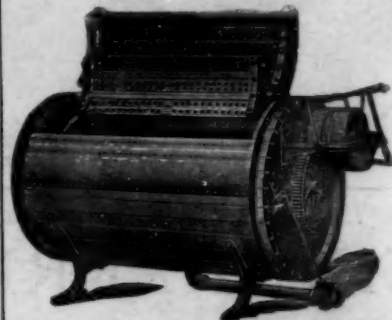
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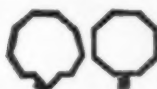
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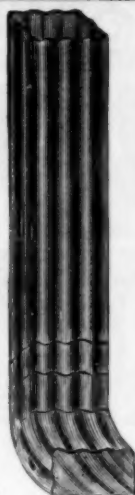
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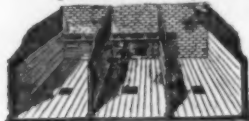
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" 2d quality.....	55 00 @ 60 00	42 00 @ 50 00	43 00 @ 45 00	40 00 @ 45 00
" 3d quality.....	18 00 @ 22 00	35 00 @ 40 00	39 00 @ 41 00	20 00 @ 35 00
Spruce.....	12 00 @ 25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock.....	13 1/4 @ 14	13 00 @ 15 00	@ 12 00	11 25 @ 13 00
Yellow pine.....	20 @ 40	25 00 @ 35 00	@ 21 00	14 00 @ 29 00
Cypress.....	@	32 00 @ 40 00	@	@ 35 00
Clapboards:				
Pine.....	@	40 00 @ 60 00	10 00 @ 21 00	14 00 @ 25 00
Spruce.....	@	25 00 @ 45 00	Not sold.	Not sold.
Framing Timber:				
Pine.....	14 00 @ 18 00	15 50 @ 18 00	14 00 @ 15 30	25 00 @ 37 30
Spruce.....	12 00 @ 16 00	12 50 @ 15 00	Not sold.	16 00 @ 18 00
Hemlock.....	18 00 @ 21 00	24 00 @ 35 00	10 00 @ 13 00	13 00 @ 1 00
Yellow pine.....	@	@	@	22 00 @ 28 00
Laths:				
Pine.....	@	2 25 @ 2 35	@ 2 20	2 75 @ 3 00
Spruce.....	@ 2 30	2 25 @ 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 05 @ 2 20	
Spruce, sawed.....	1 50 @ 2 00	1 50 @ 00	Not sold.	
Redwood..... P. M.....	1 40 @ 1 60	3 75 @ 4 00	6 00 @ 7 50	30" @ 35 @ 40
Cedar, split..... P. M.....	@	@	Not sold.	24" @ 8 @ 21
Cedar, sawed.....	@	2 00 @ 4 00	2 10 @ 2 30	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..... P. ft.....	4 1/2 @ 5 1/2	Piles 6s. P. ft.....	Cut to order.	9 00 @ 13 00
Fence pickets, Common.....	8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 15 00	4 1/2 @ 1 25
Cedar posts, 9 ft. (sq. posts).....	@	25 @ 50	9 @ 21	20 @ 30
Chestnut.....	@	25 @ 50	Not sold.	
Finishing Woods: P. M. (First Qual.)				
Ash..... (Kiln dried).....	@ 55 00	45 00 @ 60 00	35 00 @ 40 00	45 00
Cherry.....	60 00 @ 120 00	65 00 @ 120 00	85 00 @ 110 00	71 00 @ 80 00
Butternut.....	40 00 @ 60 00	60 00 @ 70 00	50 00 @ 55 00	70 00 @ 80 00
Hard-pine floors (rift).....	@	45 00 @ 50 00	@	@
Mahogany, Baywood (Mexican).....	@ 180 00	150 30 @ 160 00	150 00 @ 180 00	150 00 @ 250 00
St. Domingo.....	@ 350 00	120 00 @ 350 00	220 00 @ 250 00	200 00 @ 400 00
Maple.....	45 00 @ 50 00	45 00 @ 50 00	25 00 @ 35 00	25 00 @ 55 00
Oak, red.....	@ 70 00	@ 50 00	32 00 @ 40 00	45 00 @ 55 00
" white.....	@ 70 00	50 00 @ 55 00	35 00 @ 40 00	45 00 @ 55 00
" quartered.....	@ 90 00	65 00 @ 80 00	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered.....	@	50 00 @ 65 00	35 00 @ 45 00	57 00 @ 65 00
Pine, clear.....	65 00 @ 70 00	50 00 @ 75 00	45 00 @ 50 00	60 00 @ 75 00
Redwood.....	60 00 @ 70 00	60 00 @ 70 00	55 00 @ 60 00	@
Rosewood..... P. ft.....	@	30 00 @ 32 00	@	@
Spruce floors (clear, kiln-dried).....	125 00 @ 150 00	80 00 @ 120 00	80 00 @ 110 30	50 00 @ 170
Walnut, black.....	15 00 @ 50 00	40 00 @ 45 00	30 00 @ 35 00	25 00 @ 40 00
Whitewood.....	@ 45 00	40 00 @ 45 00	25 00 @ 30 00	27 50 @ 45 00
Yellow pine..... P. M.....	@	@	@	@

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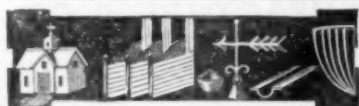
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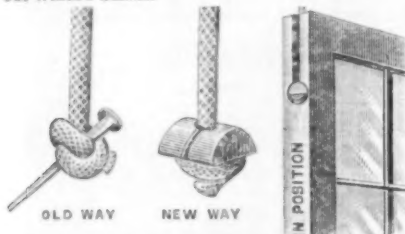
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" dark.....	15 00 @ 16 00			22 00 @ 26 00
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Chicago pressed (Anderson).....	7 00 @ 41 00			second " @ 14 00
Chicago Moulded.....	@ 22 00			Third " @ 13 00
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Philadelphia.....	@ 22 00			
Trenton.....	@ 22 00			
Milwaukee.....	@ 22 00			
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Glens Falls Red Pressed.....	@ 37 00			
" " Buff.....	@ 30 00			
" " Moulded Red & Buff.....	45 00 @ 70 00			
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Portland, English (Gibbs).....	2 50 @ 3 00	2 00 @ 3 00	2 75 @ 3 25	2 85 @ 3 15
" " (K. B. & S.).....	2 50 @ 3 00	2 00 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross.....	2 25 @ 2 50	2 00 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Barham).....	2 50 @ 2 80	2 00 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White's).....	2 65 @ 3 00	2 00 @ 3 00	3 00 @ 3 25	
" " French (Lafarge).....	3 60 @ 3 75	3 00 @ 5 00	3 75 @ 3 25	Hemmoor } 2 50 @ 2 75
" " German (Alsen).....	2 90 @ 3 25	3 00 @ 3 50	3 75 @ 3 25	Josson } 2 50 @ 2 75
" " (Foster).....	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 75 @ 2 85
" " (Vorwöhler).....	2 50 @ 2 90			
" " (Lagerhofer).....	2 90 @ 3 25	Cleopatra } 2 55 @ 3 00	2 75 @ 3 00	2 50 @ 2 75
" " (Dyckerhoff).....	2 50 @ 3 00	3 00 @ 3 50	3 25 @ 3 50	3 00 @ 3 25
" " (Hanover).....	2 50 @ 3 00			Not Sold.
" " Stettin (Anchor).....	2 35 @ 2 85			Not Sold.
" " American (Saylor's).....	3 15 @ 2 45	2 15 @ 2 50	2 75 @ 3 00	2 50 @ 2 75
Roman.....	2 75 @ 3 00	3 00 @ 3 50	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse.....	5 75 @ 6 50	6 00 @ 6 50	6 00 @ 7 00	6 50 @ 7 00
" superfine.....	9 25 @ 10 25	11 50 @ 11 50	9 @ 10 50	8 00 @ 9 00
LIME				
Lime of Tetl.....	3 50 @ 4 00			Not sold.
Hydraulic Lime.....	@ 1 45	@ 1 35		White Lime } 25 @ 30 @ bush
Chicago Lime in bulk.....		St. John 1 00	55 @ 60	White Mass } 1 25 @ 1 50
Wisconsin.....	@ 1 00	@ 1 05	Not sold.	1 00 @ 1 00
Rockland and Rockport, (Com.).....	@ 1 20	@ 1 10	Not sold.	
Rockland and Rockport, finish.....	@ 1 20	@ 1 20	1 00 bulk, 75c.	
Kelley Island Lime, finish.....	@ 85	Not sold.	Not sold.	Not sold.
State, com. cargo rates (nom.).....	@ 1 10	Not sold.	Not sold.	Not sold.
State, finishing.....	@ 1 10	Not sold.	Not sold.	Not sold.
Plaster of Paris (calcined).....	1 30 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting).....	1 30 @ 1 35	2 25 @ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Castle) & bush.....	12 @ 15	25 @ 30	30 @ 25	20 @ 25
" (Goat).....	22 @ 25	30 @ 30	30 @ 55	30 @ 35
Sand, & load.....	1 00 @ 1 25	1 75 @ 1 90	60 @ 60	@ 1 50
STONE. (P. cubic foot, rough.)				
Granite: (Maine).....		@ 60		55 @ 65
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Bedford.....	45 @ 1 25	95 @ 1 00	50 @ 55	Richmond } 75 @ 1 55
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Block		5.00	5.00	5.00	5.00
Rubble		4.00	4.00	4.00	4.00
Bluestone (per sq. ft.)		1.25	1.50	1.50	1.50
Sidewalk		30	5.00	75	1.00
Planned		50	6.00	80	1.00
Sandstone:					
Longmeadow		80	90	150	1.00
Kibbe		80	110	150	1.00
Brown (Connecticut)		1.00	1.25	1.50	1.00
Amherst		90	100	150	1.00
Berea		75	100	150	1.00
Berlin		75	100	150	1.00
Bellefonte		80	125	150	1.00
New Brunswick (Dorchester)		80	100	150	1.00
Green		80	100	150	1.00
Carlisle		80	100	150	1.00
Corse Hill (Scotch)		105	105	105	1.05
Marble (per cu. ft.)					
Lee, Mass.		1.75	2.50	Not sold.	2.00
Rutland, white and blue		1.25	1.75	3.50	6.00
Sutherland Falls				3.50	6.00
Glens Falls, black				Not sold.	4.40
Italian, blue-veined				Not sold.	4.40
Sienna				Not sold.	4.40
Tennessee, red				Not sold.	4.40
Knoxville				Not sold.	4.40
Pennsylvania, blue				Not sold.	4.40
Vermont, white				Not sold.	4.40
State Roofing (per square)					
Green		5.00	5.00	5.50	6.10
Unfading		5.00	6.00	6.50	7.10
Purple		5.00	6.00	6.50	7.10
Red		5.00	6.00	6.50	7.10
Black, Lehigh		4.25	4.75	12.00	14.00
Chapman				6.25	8.85
Unfading Black, Monson, Me.		5.50	8.00	7.30	8.00
Tiles, Am.					
N. Peach Bottom, warranted unfading				6.00	9.00
PAINTS. (In oil, 7 lb.)					
White lead, Am.		7	7	6	7
Zinc		5	7	6	7
Red lead, Am.		6	7	6	7
Venetian		6	7	6	7
Vermilion		6	7	6	7
Red Indian, Eng.		12	20	12	20
Yellow Ochre		6	15	6	15
Chrome		12	20	12	20
Green (chrome)		8	13	8	13
Green, Paris		25	40	18	35
Black, lamp		15	25	8	30
Blue, ultramarine		12	18	12	35
Oil, linseed, (raw)		6	15	6	15
boiled		6	15	6	15
Turpentine		43	65	43	65
Varnish, coach		150	600	125	300
Shellac		250	300	225	400
Putty		2	4	2	4
Whiting		75	100	1	1
Paris white, (Eng.)		130	200	1	1
Litharge, Am.		54	6	6	7
Sienna (burnt)		14	20	4	16
Umber		14	20	2	10
HARDWARE.					
Nails: (Per Cask.) Spikes, (wrought.)		2.55		2.05	2.25
10d. common		2.60		2.15	2.30
Shingle		3.25		2.65	2.60
Lath		4.85		3.55	4.75
Finishing nails according to size.					
(For casing nails add 10c. per leg.)				3.60	4.75
Butts: 4"x4" (per doz. pairs.)				2.90	(all kinds.)
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Japaned		1.50	1.90	1.35	2.75
Acorn, Japaned		1.50	1.90	1.35	2.75
Ball Tip, Boston Finish (pair)		65	50	48	50
Bronze metal		1.90	1.65	1.25	1.00
Brass (no supboards)		10	10	35	35
Ebony				37	1.00
Apple wood					
Knots: (per Set.)					
Mineral, best		8	8	8	10
Lava		50	75	55	80
Hemlock		Not sold	17	31	40
Porcelain		30	50	Not sold.	1.00
Glass, solid		Not sold	88	1.00	1.75
Glass, silvered		Not sold	50	3.00	50
Bronze metal		75	3.00	150	3.00
Brass		1.00	2.50	13.00	15.00
Solder:					
Sheet Lead			6		6
Lead Pipe					
Iron:					
1-Beams, 5p to and including 30 ft.		33-10	34	33-10	34
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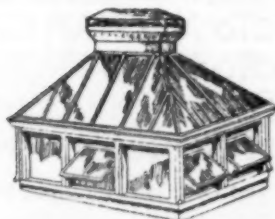
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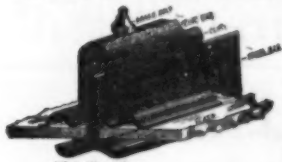
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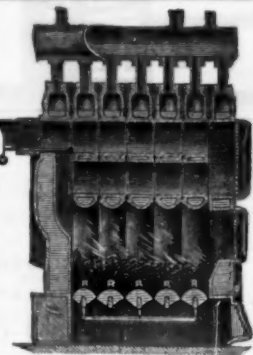
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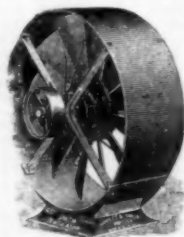
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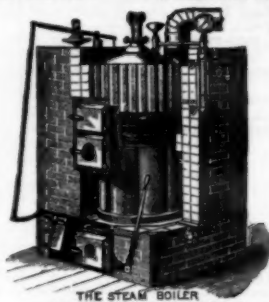
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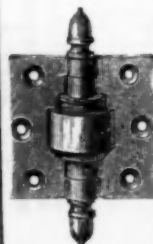
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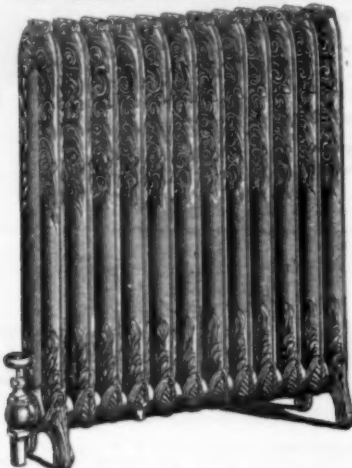


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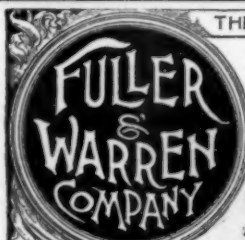
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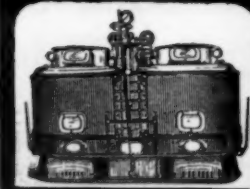
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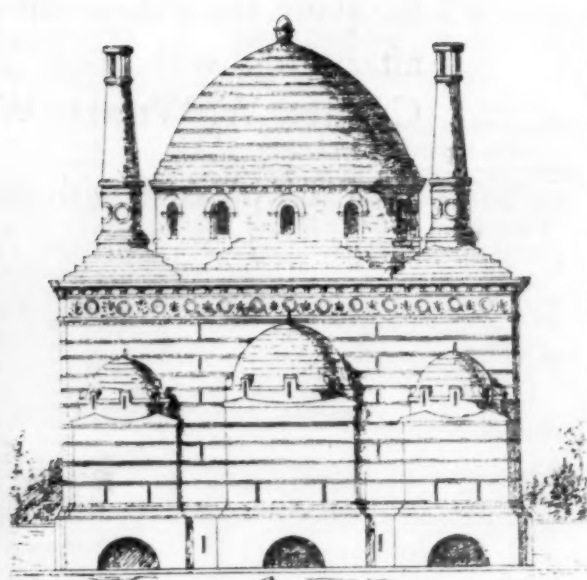
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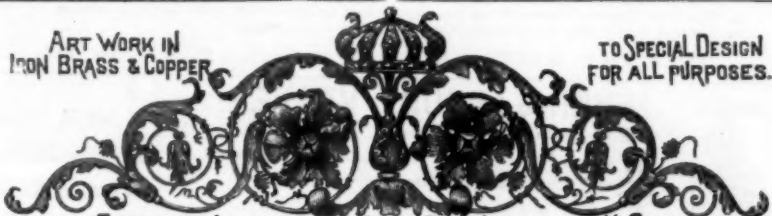
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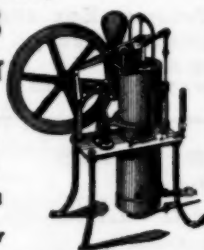
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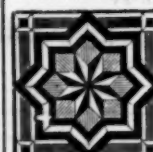
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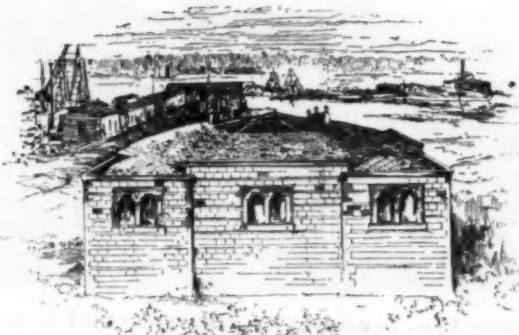
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Broadway, Nos. 498-500, five-st'y brick workshop, altered internally; cost, \$5,000; owner, J. G. K. Lawrence, 45 East Twenty-fifth St.; architect, Robt. Dixon, 219 Montague Ave., Brooklyn, N. Y.

West St., w. s. on line with South St., Riverdale, four-st'y stone dwell., extension and internal alterations; cost, \$10,000; owner, Wm. H. Appleton, 3 Madison Ave.; architects, Babb, Cook & Willard, 55 Broadway.

West Sixty-ninth St., No. 204, five-st'y brick tenement, altered internally; cost, \$5,000; owner, Mrs. Leonine Tausig, 1029 Lexington Ave.; architects, G. F. Tausig & Co., 237 West Twenty-seventh St.

Philadelphia, Pa.—Passyunk Ave., front and in-

BUILDING INTELLIGENCE.

terior alteration; owner, Michael J. Ford, 1628 South Seventh St.

North Fifth St., No. 3349, front alteration; contractor, A. T. Wadsworth, 920 Somerset St.

Uber St., No. 1845, new front and interior alteration; contractor, G. C. Dietrich, 1930 Berks St.

North Eighth St., No. 40, one-st'y addition to store; contractor, Henry Gill, 2330 Hancock St.

North Sixteenth St., No. 1167, one-st'y addition to back building; contractor, P. H. Somerset, 1513 North Twelfth St.

Hark La., No. 508, new front; contractor, John Klebe, 2228 North Eleventh St.

South Eighth St., No. 126, three-st'y front addition; contractor, R. W. Strode, 2131 Vine St.

Naudain St., No. 1833, alteration; owner, Andrew Galley, 1838 South St.

South St., No. 1036, two-st'y addition to back building; owner, Patrick Kelly, 1036 South St.

Fairmount Ave., s. e. Fifth St., three-st'y addition and interior alteration; contractors, Quigley & Craig, 1517 North Front St.

Arch St., No. 850, one-st'y addition to store; contractor, Wm. B. Dougherty, 1604 Sansom St.

APARTMENT-HOUSES.

Boston, Mass.—Huntington Ave., Nos. 155-157, Ward 11, 2 four-st'y brick apartments, flat roofs, 24' x 55'; owner, G. W. Nason; builder, A. Knowlton.

Chicago, Ill.—Joseph Heva, three-st'y flats, 836 West Eighteenth St.; cost, \$3,000.

V. Straka, three-st'y flats, 833 Allport St.; cost, \$4,000.

Geo. A. McMorran, two-st'y flats, 575 Herndon St.; cost, \$1,000.

James Dedie, two-st'y flats, 36 Ashland Ave.; cost, \$5,000.

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T. N. Cunning, 2 two-st'y flats, 1263-1265 West Congress St.; cost, \$8,000.

T. N. Cunning, 3 two-st'y flats, 1168-1172 West Congress St.; cost, \$8,000.

Wallentine Kusenski, two-st'y flats, 160 Wabansia Ave.; cost, \$2,500.

T. Korgl, two-st'y flats, 926 Noble St.; cost, \$1,400.

Robert Miltig, two-st'y flats, 885 Elk Ave.; cost, \$1,800.

Jacob Kerg, two-st'y flats, 761 Davis St.; cost, \$2,000.

John M. Schroeder, two-st'y flats, 6442 Langley Ave.; cost, \$1,000.

Hector Sinclair, three-st'y flats, 4207 Langley Ave.; cost, \$5,000.

T. N. Cunning, 2 two-st'y flats, 1284-1286 West Congress St.; cost, \$8,000.

A. E. Case, three-st'y flats, 3823 La Salle St.; cost, \$16,000.

August Heiding, three-st'y flats, 126 Centre St.; cost, \$4,000.

Jacob Meyer, two-st'y flats, 1385 Harvard St.; cost, \$1,000.

Frank R. Meadowcroft, four-st'y flats, 247 Ohio St.; cost, \$10,000.

Thos. Galbraith, three-st'y flats, 2854 Calumet St.; cost, \$8,000.

John Micholson, three-st'y flats, 540 Thirty-third St.; cost, \$5,000.

Henry Garpen, three-st'y flats, 15 Austin Ave.; cost, \$6,000.

C. E. Cruikshank, 3 two-st'y flats, 1405-1409 Monroe St.; cost, \$6,000.

J. Willowski, two-st'y flats, Paulina St., near Forty-seventh St.; cost, \$1,500.

John E. Donahue, three-st'y flats, Sixty-seventh St., near Vincennes Ave.; cost, \$9,000.

New York, N. Y.—Seventy-seventh St., n. s. 150' w Third Ave., 4 five-st'y brick flats; tin roofs; cost, \$0,000; owner, William C. Burne, 121 East One Hundred and Fourteenth St.; architect, John C. Burne, 1531 Third Ave.

Tenth Ave., s. e. cor. One Hundred and Second St., 2 five-st'y brick flats, tin roofs; cost, \$43,000; owners,

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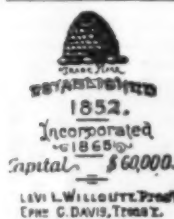
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One Hundred and Thirty-sixth St., n. s. 250, e. Lincoln Ave., 2 five-st'y brick flats, tin roofs; cost, \$30,000; owner, Frederick Rohrs, 303 East One Hundred and Twenty-sixth St.; architect, Walter H. C. Hornum, 150 East One Hundred and Twenty-fifth St.

Seventy-first St., s. s. 95' w Third Ave., five-st'y brick flats, tin roof; cost, \$23,000; owner, Michael Reid, 210 East Sixty-second St.

One Hundred and Fourth St., s. s. 100' w Ninth Ave., 2 five-st'y brick flats, tin roofs; cost, \$70,000; owner, Thomas J. McLaughlin, 129 East Fifty-second; architects, Kurtzer & Rohl, cor. Third Ave. and Seventh St.

Tenth Ave., e. s. 24' 11" n One Hundred and Thirtieth St., 2 five-st'y brick flats, tin roofs; cost, \$44,000; owner, Thomas Molony, 224 East One Hundred and Eighteenth St.; architects, Thom & Wilson, 1267 Broadway.

Third Ave., No. 1068, five-st'y brick and stone flat; owner, John Karst; architect, A. I. Finkle.

East Fifty-third St., No. 217, five-st'y brick and stone flat; owner, James Walsh; architect, Franklin Baylies.

One Hundred and Fortieth St., n. s. 100' w Willis Ave., 2 five-st'y brick and stone double flats; cost, \$30,000; owner, Mary E. Barry; architect, Andrew Spence.

One Hundred and Fifth St., n. s. e Tenth Ave., five-st'y brick and stone flat; owner, David H. Knapp; architect, R. S. Townsend.

Eighty-first St., s. s. w Ave. A, 2 five-st'y flats; cost, \$30,000; architect, Andrew Spence.

FACTORIES.

Chicago, Ill.—Joe Keaney, two-st'y factory, 14-16 Peoria St.; cost, \$5,500.

HOTELS.

Long Beach, Cal.—Hotel; cost, \$75,000.

Santa Catalina Island, Cal.—Hotel; cost, \$150,000.

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Baltimore, Md.—S. L. Witz, three-st'y and mansard building, n w cor. Eutaw Pl. and Laurens St., and two-st'y brick stable in rear.

J. F. Krauss, 8 two-st'y brick buildings, e s Smallwood St., bet. Marianna and Ramsay Sts., and 6 two-st'y brick buildings, n s Ramsay St., e Smallwood St.

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Boston, Mass.—Unnamed St., off Bailey St., No. 49, Ward 24, frame dwell., 19' x 33.6'; owner, Rowena F. Burt; builder, E. N. Burt.

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Valentine St., No. 30, Ward 21, three-st'y frame dwell., flat roof, 22' x 32'; owner and builder, L. B. Abbott.

Valentine St., No. 33, cor. Fulda St., Ward 21, three-st'y frame dwell. and store, flat roof, 33.6' x 37'; owner and builder, L. B. Abbott.

Day St., near Minden St., Ward 22, three-st'y frame dwell., flat roof, 22' x 40'; owner and builder, G. Merz.

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frame dwell., flat roof, 21' x 41.5'; owner and builder, G. Merz.
Mansur St., near Day St., Ward 22, frame dwell., 24.6' x 36'; owner, D. Carroll.
Chelsea St., Nos. 285-291, Ward 1, 4 three-st'y frame dwells., flat roofs, 21' x 34'; owner and builder, J. H. Stevenson.
Crafts St., near Heath St., Ward 22, frame dwell., 20' x 30'; owner, G. H. Spence.
Market St., No. 80, rear, Ward 25, three-st'y frame dwell. and shed, flat roof, 24' x 28'; owner, T. Roddy; builder, D. De Greves.
Falcon St., No. 141, Ward 1, frame dwell., 20.6' x 44'; owner, Eugene C. Ford; builder, S. S. Fish.
Westville St., near Tapiiffe St., Ward 24, frame dwell., 23' x 32'; owner and builder, W. Kellar.
Wayland St., Nos. 14-18, and 22, 3 three-st'y frame dwells., flat roofs, 24' x 53'; owner and builder, B. F. Bean.
Buonwood St., near Locust St., Ward 15, 16' x 30'; owners, Co-operative Building Plan Association; builder, J. D. Bawer.
Palmer St., near Eustis St., Ward 20, 2 three-st'y brick dwells., flat roofs, 25' x 35' and 30' x 40'; owner and builder, J. H. T. Adams.
Eustis St., near Palmer St., Ward 20, 6 three-st'y brick dwells., flat roofs, one 30' x 35', the others 20' x 35'; owner and builder, J. H. T. Adams.
Whitney Pl., No. 5, Ward 2, three-st'y frame dwell., flat roof, 25' x 32'; owner, Frank Normel; builders, H. & J. Pierce.
Prospect Ave., opp. Sheldon St., Ward 23, frame dwell., 22' x 53'; owner, M. H. Fossett.
Breck St., near Dudley Ave., Ward 23, frame dwell., 23.6' x 42'; owner, Catherine McNair; builder, R. D. McNair.
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Milton Ave., No. 77, Ward 24, frame dwell., 24' x 40'; owner and builder, R. W. McDowell.

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The Engraving is printed upon heavy Japan paper, 18 x 24, instead of common plate paper as first announced, and it was issued as a supplement with our number for January 18, 1890, upon the above conditions.

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BOSTON, February, 1890.

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Chicago, Ill.—P. B. Marston, two-st'y dwell., Justine and Sixty-ninth Sts.; cost, \$1,500.
Jules Haase, cottage, 861 Superior St.; cost, \$1,000.
Vopicka & Kubin, two cottages, 4919-4921 Laflin St.; cost, \$2,900.
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Geo. C. Kuhn, dwell., 1818 Aldine St.; cost, \$2,500.
Sarah M. Baker, eight cottages, 23-43 Ward St.; cost, \$3,000.
S. Trimmerman, two-st'y dwell., 382 South Leavitt St.; cost, \$6,000.
Chicago Falls, Mass.—Lucien Lyon, dwell., Springfield St.; cost, \$3,500.
Cincinnati, O.—Geo. Kettle, two-and-one-half-st'y dwell., Orchard St.; cost, \$3,000; architects, G. & A. Bast.
Chas. L. Mills, three-st'y dwell., Fairfield Ave.; cost, \$5,000; architect, W. W. Franklin.
Chas. L. Mills, three-st'y dwell., Fairfield Ave.; cost, \$5,000; architect, W. W. Franklin.
A. Surman, 3 three-and-one-half-st'y dwells., Freeman Ave.; cost, \$15,420; architects, G. & A. Bast.
New York, N. Y.—One Hundred and Twenty-first St., n s, 80' w Lenox Ave., four-st'y brick and stone dwell.; cost, \$22,000; owner, Frederick Aldhous; architect, J. C. Burne.
Seventy-fifth St., s s, 100' e Ninth Ave., 9 four-st'y and basement stone front dwell.; architect, George H. Griebel.
Philadelphia, Pa.—Morris St., n s, w Nineteenth St., 2 two-st'y dwells.; owner, Jas. C. Clark, 1912 Wharton St.
South Nineteenth St., No. 1617, two-st'y dwell.; owner, Jas. G. MacKinney, 1615 South Nineteenth St.
Erie Ave., s s, w Broad St., 14 three-st'y dwells.; owner, J. I. McDuffee, 1925 North Seventh St.
Fifteenth St., e s, s Erie Ave., 10 three-st'y dwells.; owner, J. I. McDuffee, 1925 North Seventh St.

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Broad St., w s, s Erie Ave., 10 three-st'y dwells.; owner, J. I. McDuffee, 1925 North Seventh St.
Passyunk Ave., w s, s Mifflin St., 8 three-st'y dwells.; owner, Hugh McNeill, Ninth St. and Passyunk Ave.
Camac St., e s, s Rockland St., three-st'y dwell.; owner, John Felix, 244 West Logan Sq.
Gray's Ave., s s, w Seventy-second St., three-st'y dwell.; contractor, E. M. Fertcher, Seventy-third St. and Gray's Ave.
Roberts Ave., s s, e Wayne St., two-st'y dwell.; owner, Thos. J. Kelly, Roberts Ave., Nicetown.
Eyre St., n s, w Thompson St., 3 two-st'y dwells.; contractor, Frank Deitrich, 2677 Frankford Ave.
Dauphin St., w Nineteenth St., 6 three-st'y dwells.; contractor, Francis Rankin, 2104 Fitzwater St.
De Kalb St., w s, n Aspen St., 6 two-st'y dwells.; owner, L. Horter, 211 North Thirty-sixth St.
Mascher St., w s, n Cambria St., 32 two-st'y dwells.; owner, F. W. Smalta, 1724 North Sixth St.
Downton St., n s, e Germantown Ave., 4 two-st'y dwells.; owners, Sims & Mogridge, Newbold Ave., Germantown.
Tree St., n and s s, w Ninth St., 31 two-st'y dwells.; owner, T. Gallagher.
Daly St., n and s s, w Ninth St., 26 two-st'y dwells.; owner, T. Gallagher.
Ninth St., w s, s Jackson St., 8 two-st'y dwells.; owner, T. Gallagher.
Walnut St., No. 1526, four-st'y dwell.; owner, Lewis Havens, Girard Building.
Chestnut St., No. 3251, two-st'y dwell.; contractor, Geo. Wilkinson, 5436 Chestnut St.
Emerald St., e s, n Huntingdon St., 3 three-st'y dwells.; contractors, Quigley & Craig, 1517 North Front St.
Salem, Mass.—Essex St., frame dwell., 50' x 60'; owner, Z. A. Galloup; architects, Allen & Kenway, Boston; builders, Handy Bros.
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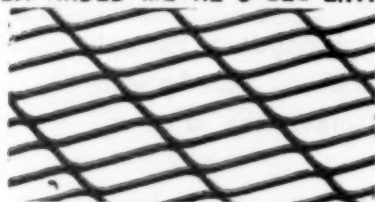


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Elm and William Sts., frame dwell., 28' x 44'; owner and builder, Joseph Miller.
Summit and Birmingham Sts., frame dwell., 26' x 36'; owner and builder, Joseph Miller.
Montrose St., frame dwell., 24' x 28'; owner and builder, Maurice Buttiner.
Partridge Ave., frame dwell., 22' x 30' with L, 16' x 17'; owner and builder, William E. Jones.
Summit St., frame dwell., 26' x 30'; owner and builder, Joseph Miller.
Elm St. and Kinder Ave., frame dwell., 26' x 42'; owner and builder, Joseph Miller.
Beacon St., No. 323, two frame dwells. and stores, 25' x 50'; owner, W. H. Berry; builder, W. B. Cameron.
Dane St., frame dwell.; owner, M. H. Tattan; builder, Geo. H. Thompson.
Highland Ave., frame dwell., 24' x 30'; owner and builder, John E. Durgin.

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First Ave., n w cor. Fifty-first St., four-st'y brick school-building, tin roof; cost, \$135,000; owner, City of New York; architect, Geo. W. Debevoise, 146 Grand St.

Riverside, Cal.—Three-st'y brick High School; cost, \$65,000.

Wareham, Mass.—Frame school-house, to contain primary, intermediate and high schools; cost, \$15,000; architect, W. L. Minor.

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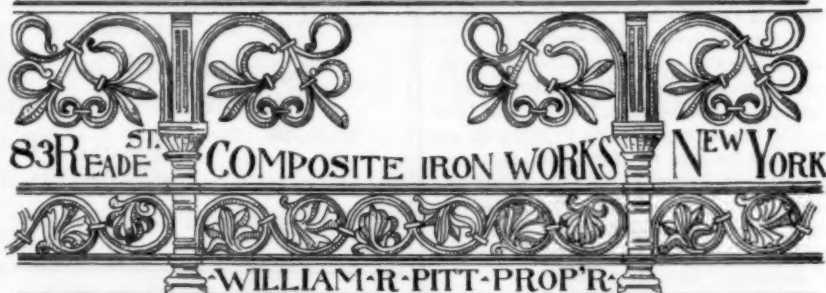
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Hundred and Twenty-fourth St., six-st'y brick store and warehouse, star roofing; cost, \$50,000; owner, Wm. H. Hunt, 2308 Eighth Ave.; architect, J. Averill Webster, 110 East One Hundred and Twenty-fifth St.

Philadelphia, Pa.—**Mercine St.,** s e cor. Berks St., one-st'y store; contractor, I. M. Vanderveer, 1741 Woodstock St.

Alder St., e s, a Diamond St., two-st'y shop; owner, 1015 West Norris St.
North Sixth St., No. 2411, one-st'y store; owner, G. J. Hamerle, 306 Susquehanna Ave.

TENEMENT-HOUSES.

New York, N. Y.—**One Hundred and Second St.,** s s, 79' e Tenth Ave., five-st'y tenement, tin roof; cost, \$12,000; owners, Burchell & Hodges, 206 East Fifty-sixth St.; architects, A. B. Ogden & Son, 1031 Madison Ave.

One Hundred and Forty-fifth St., n s, 185' w Brook Ave., four-st'y brick tenement, tin roof; cost, \$12,000; owner, Mary McGuire, 747 East One Hundred and Forty-fifth St.; architect, Henry Siller, 747 East One Hundred and Forty-fifth St.

East Twenty-eighth St., No. 216, five-st'y brick tenement, tin roof; cost, \$12,000; owners and architects, Williams & Jones, 154 East Twenty-seventh St.

MISCELLANEOUS.

Chicago, Ill.—A. Cullender, one-st'y foundry, 10-14 North Rockwell St.; cost, \$10,000.

W. B. Rogers Elevator Co., one-st'y elevator, Roby St.; cost, \$10,000.

New York, N. Y.—**Seventh Ave.,** n e cor. One Hundred and Twenty-fourth St., two-st'y yellow brick

BUILDING INTELLIGENCE.

terra-cotta and iron market, with offices; owner, Nathan Schwab; architect, Richard Berger.

Philadelphia, Pa.—**Ninth St.,** No. 1913, one-st'y kitchen; owner, Samuel G. Zelle, 1212 North Eighth St.

West Warren, Mass.—A. W. Crossman & Son, two-st'y brick block; contract not let.

St. Louis, Mo.—Two-st'y brick shop; cost, \$4,200; owner, B. Loeblein; contractor, Phil. Riechers.

COMPETITION.

PRIZE COMPETITION.—*The Cosmopolitan Magazine* offers \$600 in three prizes of \$200 each for the best designs for Public Baths, Public Laundries, Tenement-house Cooperative Kitchens, made in conformity with a programme and specifications, full particulars of which will be sent on application.

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PROPOSALS.

TO IRON MANUFACTURERS. Office of the Light-house Engineer, First and Second Districts, Boston, Mass., January 27, 1890. Proposals will be received at this office until 12 o'clock noon of Tuesday, the 18th day of February, 1890, for furnishing the materials and labor of all kinds necessary for the completion and delivery of the metal-work of the Goose Rocks Light-house, Fox Island Thoroughfare,

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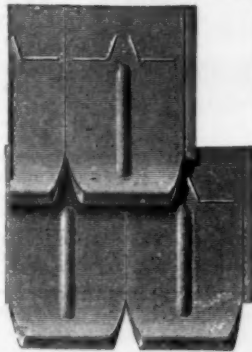
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PROPOSALS.

Maine. 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. W. S. STANTON, Major of Engineers U. S. Army, Light-house Engineer, First and Second Districts. 737

BOILERS, ETC.[At Detroit, Mich.]
OFFICE OF LIGHT-HOUSE ENGINEER,
NINTH AND ELEVENTH DISTRICTS,
DETROIT, MICH., January 18, 1890.

Sealed proposals will be received at this office until 4 o'clock P. M., on Saturday, the 15th day of February, 1890, for furnishing the boilers, machinery, etc., for fourteen steam fog-signals, in sets of two, delivered at the Light-house Depot at Detroit, Mich.

Plans, specifications, forms of proposals and other information may be obtained on application to the undersigned. The right is reserved to reject any or all bids and to waive any defects.

WILLIAM LUDLOW,
Light-house Engineer.

737

HARDWARE.SIGNAL OFFICE, WAR DEPARTMENT,
WASHINGTON CITY, January 15, 1890.

Sealed proposals, in duplicate, subject to the usual conditions, will be received at the office of the Chief Signal Officer, in this city, until 11 o'clock A. M. on Saturday, the 15th day of February, 1890, for furnishing the Signal Service the hardware supplies for 50 tool chests.

Persons desiring to bid can, upon application in writing, obtain from this office blank forms and instructions for bidding and full information in accordance with this letter.

A. W. GREELY,
Chief Signal Officer.

737

STEAM PLANT.

[At Put-in-Bay.]

Sealed proposals for erecting a steam and water distributing plant in the building of the United States Fish Hatchery, Put-in-Bay, Lake Erie, will be re-

PROPOSALS.

ceived at the office of the United States Commissioner of Fish and Fisheries, Washington, D. C., up to 12 o'clock, noon, February 10, 1890, when they will be opened in the presence of attending bidders.

Specifications, plans, forms of proposals, etc., can be seen at the office of Henry Douglass, State Fish Hatchery, Sandusky, Ohio; Geo. D. Mussey, Secretary State Fish Commission, Detroit, Mich.; Edward E. Schwabe, Beckman Building, 204 Superior Street, Cleveland, and George E. David, United States Fish Commission, Put-in-Bay, Lake Erie.

MARSHALL McDONALD,
Commissioner.

736

LIGHT-TOWER.

[At Diamond Shoal, N. C.]

OFFICE OF THE LIGHT-HOUSE BOARD,
WASHINGTON, D. C., January 9, 1890.

Proposals will be received at this office until 12 o'clock, noon, of Tuesday, the 1st day of July, 1890, for the design, the specifications, the complete construction and equipment and the temporary maintenance of a light-tower on Diamond Shoal, off Cape Hatteras, N. C.

By an act of Congress, the total cost of the light station shall not exceed the sum of \$500,000.

Specifications embodying the requirements of the structure, forms of proposals 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.

DAVID B. HARMONY,
Rear Admiral, U. S. Navy, Chairman.

January 28, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 24th day of February, 1890, for furnishing and putting in place complete one hydraulic direct-acting mail-lift, including pump, tanks, piping, platform, screen-work, etc., in the United States Post-Office, Court-House, etc., building at Augusta, Me., in accordance with the drawings and specification, copies of which may be had upon application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The De-

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PROPOSALS.

partment will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. 737

HEATING.

[At Hoboken, N. J.]

Sealed proposals will be received at the office of the City Clerk, City-hall, Hoboken, N. J., until 7.30 P. M. on the 11th day of February, 1890, for all the labor and materials required for the erection and completion of a system of indirect heating, with ventilation, of the proposed new three-story school-building to be built in said city, in accordance with the plans and specifications prepared by Messrs. Beyer & McCann, architects.

Plans and specifications can be seen at the City-hall, and all necessary information can be obtained from the architects, corner of Hudson Place and River Street, Hoboken, N. J. 737

BRICKS, CEMENT, ETC.

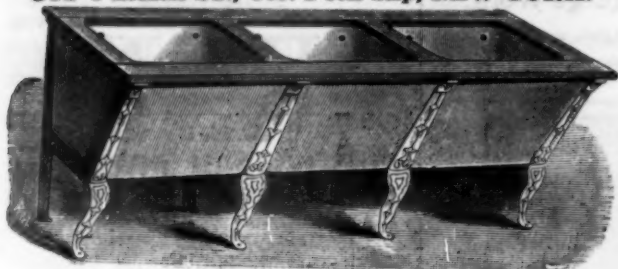
[At Washington, D. C.]

OFFICE OF BUILDING FOR LIBRARY OF
CONGRESS, 145 EAST CAPITOL STREET,
WASHINGTON, D. C., January 11, 1890.

Separate sealed proposals will be received at this office until 2 o'clock P. M., on Thursday, the 6th

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PROPOSALS.

day of February, 1890, and opened immediately thereafter in presence of bidders, for furnishing and delivering at the site of the Building for Library of Congress, in this city, the following approximate quantities of building materials:

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2. 100,000 best red hand-made bricks.
3. 4,000 cubic yards of river sand.
4. 800 cubic yards of broken stone.
5. 237,500 feet of lumber.
6. Small supplies of miscellaneous hardware.
7. 21,100 small iron-castings.
8. 1,200 barrels Portland cement.
9. 1,900 feet cast-iron drain and pressure pipe and fittings.

Specifications, general instructions and conditions and blank forms of proposal may be obtained on application to this office.

BERNARD R. GREEN,
Superintendent and Engineer.

January 21, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 15th day of February, 1890, for the labor and material required to complete the iron stairways and interior finish of the United States Custom-house, etc., building at Galveston, Tex., in accordance with the specification and drawings, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$300. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. **JAMES H. WINDRIM,** Supervising Architect. 737

January 23, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 28th day of February, 1890, for all the labor and materials required to complete the approaches to the United States Post-office, Court-house, etc., building at Wichita, Kan., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. **JAMES H. WINDRIM,** Supervising Architect. 737

January 22, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 25th day of February, 1890, for all the labor and materials required to re-cover with 16-ounce tinned copper the roof of the United States Custom-House and Post-Office building at New Orleans, La., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$500. The Department will reject all bids received after the time fixed for opening the same; also,

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PROPOSALS.

bids which do not comply strictly with all the requirements of this invitation. **JAS. H. WINDRIM,** Supervising Architect. 737

January 23, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 3d day of March, 1890, for all the labor and materials required in the erection and completion of the United States Court-House, Post-Office and Custom-House building at Vicksburg, Miss. (approaches, heating apparatus and plumbing not included), in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$500. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. **JAS. H. WINDRIM,** Supervising Architect. 737

TO ENGINEERS AND CONTRACTORS. Office of the Light-House Board, Washington, D. C., January 9, 1890. Proposals will be received at this office until 12 o'clock, noon, of Tuesday, the 1st day of July, 1890, for the design, the specifications, the complete construction and equipment, and the temporary maintenance of a light-tower on Diamond Shoal, off Cape Hatteras, North Carolina. By an act of Congress, the total cost of the light-station shall not exceed the sum of \$500,000. Specifications embodying the requirements of the structure, 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. **DAVID B. HARMONY,** Rear-Admiral, U. S. N., Chairman. 737

COL. GEORGE E. WARING, JR., C. E. etc., in his recent work on Sewerage and Land Drainage, in speaking of traps liable to siphonage, says: "the best remedy would be to supply the defective traps at their summits with McClellan's Mercury Seal-Trap Vent, a perfectly safe device, of little cost, simple and easy of application, and sure to supply air when needed."

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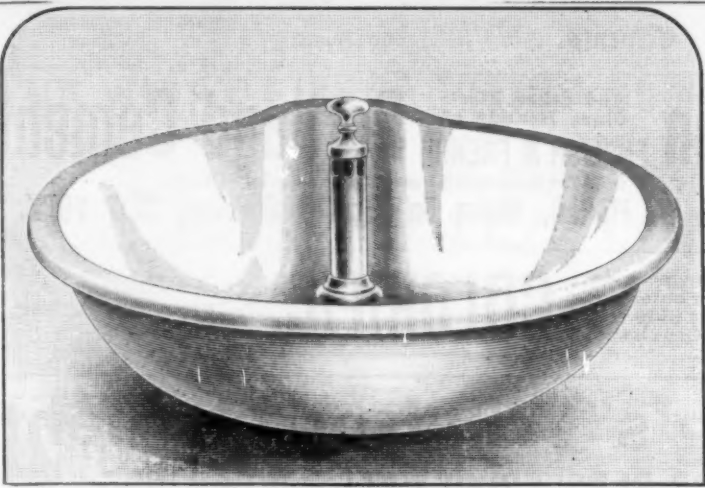


Plate 843—G. The "SIMPLEX" Recess Basin and Waste. (Patented.)

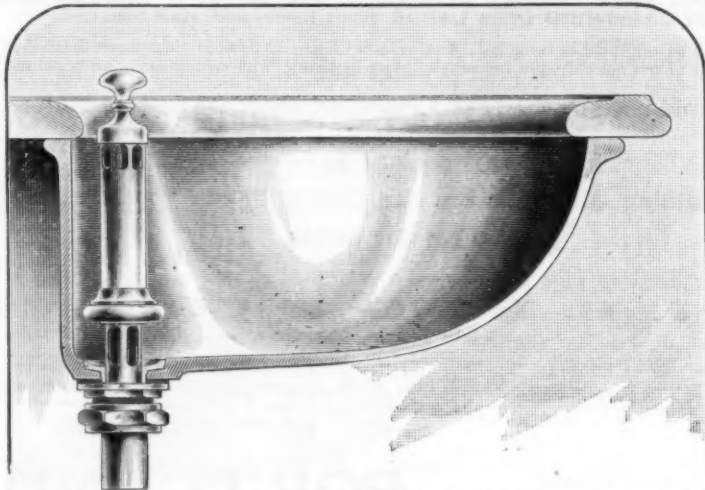


Plate 844—G. Cross Section of "Simplex" Recess Basin, showing Waste raised as when water is being let out of Basin.

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[See Alphabetical Index on page VII for Pagination.]

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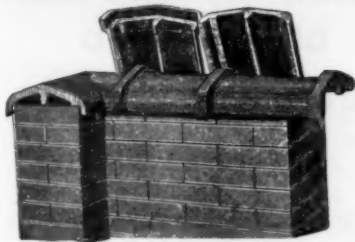
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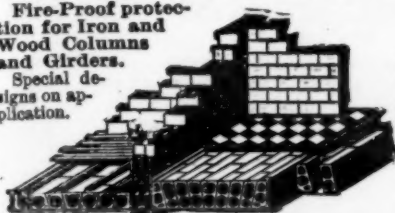
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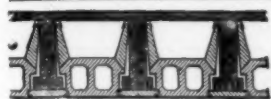


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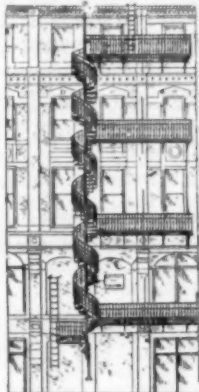
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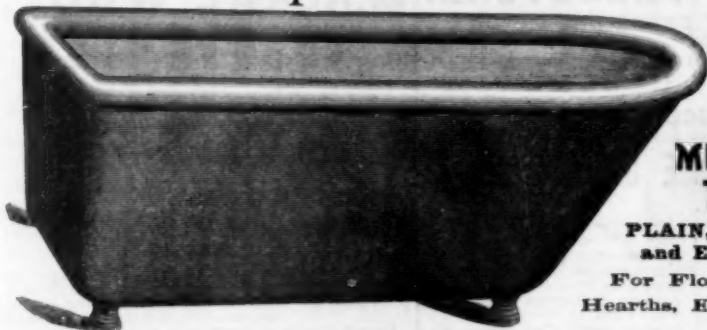
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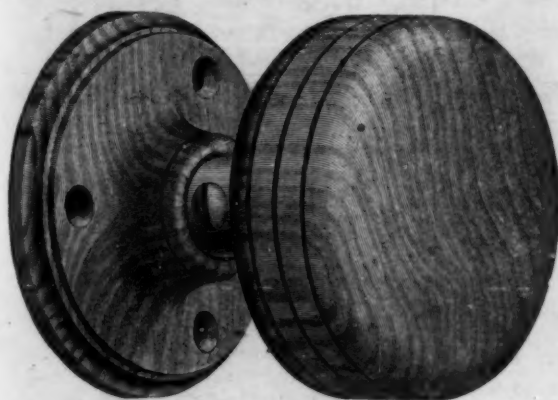
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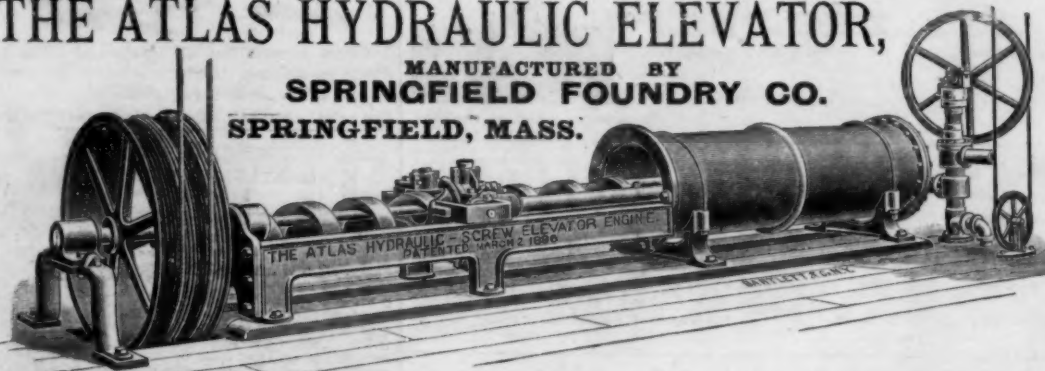
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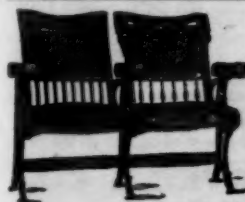
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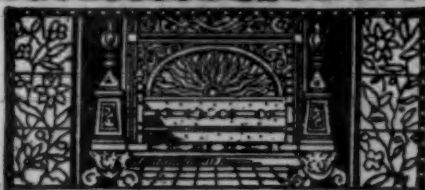
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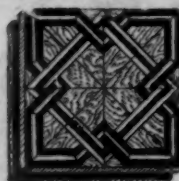
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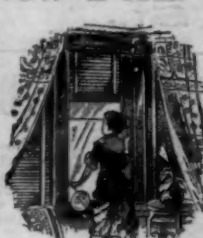
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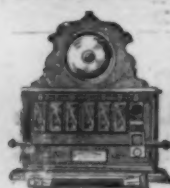
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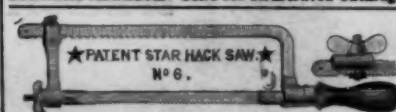
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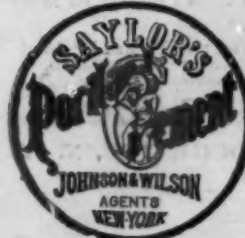
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BUILDING MATERIALS.

LUMBER.—P. M.

Boards: (Ordinary dimensions.)

Pine, 1st quality, clear.....

" 2d quality.....

" 3d quality.....

Spruce.....

Hemlock.....

Yellow pine.....

Cypress.....

Diapores.....

Pine.....

Spruce.....

Framing Timber:

Pine.....

Spruce.....

Hemlock.....

Yellow pine.....

Laths:

Pine.....

Spruce.....

Shingles:

Pine, shaved.....

Pine, sawed.....

Spruce, sawed.....

Redwood.....

Cedar, split.....

Cedar, sawed.....

Cypress, Split.....

Miscellaneous:

Pine.....

Fence pickets, Common.....

Cedar posts, 9 ft. (sq. posts).....

Chestnut.....

Finishing Woods: P. M. (First Qual.)

Ash.....

Cherry.....

Butternut.....

Hard-pine floors (rift).....

Mahogany, Baywood (Mexican).....

" St. Domingo.....

Maple.....

Oak, red.....

" white.....

" quartered.....

Sycamore quartered.....

Pine, clear.....

Redwood.....

Rosewood.....

Spruce floors (clear, kiln-dried).....

Walnut, black.....

Whitewood.....

Yellow pine.....

New York.

Boston.

Chicago.

Philadelphia.

(Wholesale Prices.)

(Price to Builders and Contractors.)

55 00 @ 75 00	50 00 @ 60 00	47 00 @ 48 00	48 00 @ 55 00
55 00 @ 60 00	42 00 @ 50 00	43 00 @ 45 00	40 00 @ 45 00
18 00 @ 22 00	35 00 @ 40 00	39 00 @ 41 00	30 00 @ 35 00
12 00 @ 25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
14 13 @ 14	13 00 @ 15 00	12 00	11 25 @ 13 50
20 @ 40	25 00 @ 35 00	2 10	14 00 @ 29 00
32 00 @ 40 00			33 00
	40 00 @ 60 00	10 00 @ 2 10	14 00 @ 25 00
	25 00 @ 45 00	Not sold.	Not sold.
		14 00 @ 15 10	25 00 @ 37 50
14 00 @ 18 00	15 50 @ 18 00	Not sold.	16 00 @ 18 00
12 00 @ 16 00	12 50 @ 15 00	10 00 @ 13 00	13 00 @ 1 00
18 00 @ 21 00	24 00 @ 35 00		22 00 @ 28 00
		2 25 @ 3 35	2 75 @ 3 00
		2 25 @ 2 50	2 30 @ 3 00
		Not sold.	
5 00 @ 6 00		Not sold.	
4 00 @ 5 00		2 05 @ 2 90	
1 50 @ 2 00	1 50 @ 00	Not sold.	
1 40 @ 1 00	3 75 @ 4 00	6 00 @ 7 50	30 00 @ 35 40
		Not sold.	24 00 @ 32 21
		2 10 @ 2 30	20 00 @ 14 00
18 00 @ 20 00	5 00 @ 6 00	3 50 @ 4 00	11 00 @ 14 00
4 1 @ 5 1	Pine 6c. P. ft.	Cut to order.	9 00 @ 13 00
8 00 @ 10 00	10 00 @ 18 00	P. 10 00 @ 18 00	4 1 @ 1 25
	25 00 @ 50	9 @ 21	20 @ 30
	25 00 @ 50	Not sold.	
45 00 @ 55 00	45 00 @ 60 00	35 00 @ 40 00	45 00 @ 45 00
80 00 @ 120 00	85 00 @ 120 00	85 00 @ 113 00	7 10 @ 80 00
40 00 @ 60 00	60 00 @ 70 00	50 00 @ 55 00	70 00 @ 80 00
	48 00 @ 50 00		
	150 00 @ 160 00	150 00 @ 180 00	150 00 @ 250 00
	120 00 @ 350 00	220 00 @ 250 00	200 00 @ 400 00
45 00 @ 50 00	45 00 @ 50 00	25 00 @ 35 00	25 00 @ 55 00
	70 00 @ 80 00	32 00 @ 40 00	45 00 @ 55 00
	70 00	35 00 @ 40 00	45 00 @ 55 00
	90 00	45 00 @ 50 00	60 00 @ 75 00
		35 00 @ 40 00	87 00 @ 65 00
65 00 @ 70 00	50 00 @ 75 00	45 00 @ 50 00	65 00
80 00 @ 70 00	60 00 @ 70 00	55 00 @ 60 00	60 00 @ 75 00
	30 00 @ 35 00		
125 00 @ 150 00	85 00 @ 120 00	80 00 @ 110 00	50 00 @ 170
45 00 @ 50 00	40 00 @ 45 00	30 00 @ 35 00	25 00 @ 40 00
45 00 @ 50 00	40 00 @ 45 00	25 00 @ 30 00	27 50 @ 45 00

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THIS simple device has been adopted by all Archi-
tects who have examined it, and has become a
positive necessity to all Overhead Hanging
Doors, and is being rapidly introduced into all first-
class houses.

Endorsed by Leading Architects.

Troy, N. Y., October 15, 1889.

Having specified Martin's Floor Plate and Bolts for
Sliding Doors for numerous buildings, erected under
my supervision, I can safely recommend them for the
use of steadying and securing the doors.

B. J. NOACK, Architect,

With M. F. CUMMINGS, Architect, Troy, N. Y.

Troy, N. Y., October 14, 1889.

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Hanging Sliding Doors, and earnestly recommend
their use for the purpose.

C. EDWARD LOTH, Architect.

N. B. A sample will be sent on receipt of
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We therefore call special attention to the existence of these imitations and to the fact that our machinery is conspicuously marked with our trade name, the use of which by any other manufacturer is unauthorized and illegal.

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BROOKLYN, N. Y.

BUILDING MATERIALS.

Reported for the American Architect and Building News.

	New York.	Boston.	Chicago.	Philadelphia.
BRICK.—P. M.				
(Wholesale Prices.)				
Common: Cargo of 1000.				
Pale.	3 00 @ 3 50	Eastern	Building Brick	Sq. Hard @ 12
Jersey.	5 75 @ 6 75	9 00 @ 10 00	@ 6 50	" @ 9 00
Long Island.		Bay State Hard		Salm n. @ 6 50
Up River.	6 25 @ 6 75	9 75		Sq. " @ 9 00
Haverstraw Bay End.	6 50 @ 6 75	Domestic Com.	Indiana Pressed	Light Stretchers
" 1st.	6 75 @ 7 25	9 50 @ 10 00	14 00 @ 20 00	" @ 12 00
Hollow.	13 00	Domestic Face	St. Louis Fronts	Medium " @ 14 00
Fronts.		20 00 @ 23 00	@ 27 00	Red " @ 15 00
Croton, Brown.	14 00 @ 15 00	Philadelphia		Dark " @ 15 00
" dark.	15 00 @ 16 00	40 00 @ 45 00		Pressed " @ 15 00
" red.	15 00 @ 16 00	Phila. mould		22 00 @ 26 00
Chicago pressed (Anderson).		50 00 @ 55 00		Best " @ 16 00
Chicago Moulded.				Second " @ 14 00
Baltimore.	7 00 @ 41 00	Anderson		Third " @ 13 00
Philadelphia.	@ 22 00	14 00 @ 32 00		Dom. { @ 65
Trenton.	@ 22 00			@ 85
Milwaukee.				
Moulded:				
Glens Falls Red Pressed.	@ 37 00			
" " Buff.	@ 30 00			
" Moulded Red & Buff.	45 00 @ 70 00			
Enamelled: Imp.	85 00 @ 100 00			
Enamelled (edge and end).	90 00 @ 115 00			
CEMENT, LIME, etc.—(P. M.)				
Rosendale Cement.	1 00 @ 1 20	1 20 @ 1 40	Not Sold.	1 30 @ 50
Louisville.	Not sold.	Brooks, S. & Co	1 05 @ 1 30	B. & S. E. 275 @ 300
Utica, Akron, Buffalo, Milwaukee.	2 50 @ 3 00	2 00 @ 3 00	1 00 @ 1 25	2 85 @ 3 25
Portland, English (Gibbs).	2 50 @ 3 00	2 00 @ 3 00	2 75 @ 3 25	2 85 @ 3 15
" (K. B. & S.).	2 50 @ 3 00	2 00 @ 3 00	3 00 @ 3 25	2 75 @ 3 15
" " Black Cross.	2 25 @ 2 50	2 00 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burham).	2 50 @ 2 80	2 00 @ 3 00	2 90 @ 3 15	2 75 @ 3 15
" " (White's).	2 50 @ 3 00	2 00 @ 3 00	3 00 @ 3 25	
" " French (Lafarge).	3 00 @ 3 75	3 00 @ 5 00	3 75 @ 4 25	Remuor
" " German (Alsen).	2 90 @ 3 25	3 00 @ 3 50	3 20 @ 3 40	2 50 @ 2 75
" " (Fawcett).	2 25 @ 2 40	3 15 @ 3 25		2 75 @ 2 85
" " (Vorwöhler).	2 50 @ 2 90			
" " (Lagerdofers).	2 90 @ 3 25			
" " (Dyckerhoff).	2 50 @ 3 00			
" " (Hanover).	2 25 @ 2 85			
" " Stettin (Anchor).	2 15 @ 2 45			
" American (Saylor's).	2 75 @ 3 00			
Roman.	5 15 @ 6 50			
Keene's coarse.	9 25 @ 10 25			
" superfine.				
LIME.				
Lime of Tall.	3 50 @ 4 00			
Hydraulic Lime.	@ 1 45			
Chicago Lime in bulk.		@ 1 35		
Wisconsin.		St. John 1 00		
Rockland and Rockport, (Com.).	@ 1 00			
Rockland and Rockport, finish.	@ 1 20			
Kelley Island Lime, finish.	@ 1 20			
State, com. cargo rates (nom.).	@ 85			
State, finishing.	@ 1 10			
Plaster of Paris (calcined).	1 30 @ 1 25	1 85 @ 2 00		
" (cast).	1 30 @ 1 35	1 85 @ 2 25		
Hair (Castle) P. Wash.	12 @ 15	25 @ 30		
" (Gost).	12 @ 15	25 @ 30		
Sand, P. load.	1 00 @ 1 25	1 75 @ 1 90		
STONE. (P. cubic foot, rough.)				
Granite: (Maine)				
Limestone:				
Bedford.	45 @ 1 25			
Joliet.	@ 1 00			
Lemont.				
Serpentine.				

COMPOUND Condensing or Non-Condensing.
16 SIZES, 5 to 500 H. P.
Not yet equalled by any form of Engine for
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Denver,	1330 Seventeenth St.	
Omaha,	1619 Capitol Avenue, T. C. Ayer.	Geo. M. Dille & Sons.
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Salt Lake City,	259 S. Main St.	
Butte, Mont.	Granite St.	
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BUILDING MATERIALS.

New York.

Boston.

Chicago.

Philadelphia.

	(Wholesale Prices.)		(Prices to Builders and Contractors.)	
Mortar, Colors.				
Black, brown, buff	1 lb.	24		
Colorful	1 lb.	24		
Red	1 lb.	24		
White	1 lb.	175		
Foundation:				
Dimension				
Block				
Rubble				
Brickstone: (By sq. ft.)				
Sidewalk	30 @ 5.00	40 @ 1.75	75 @ 1.00	1 in. th. 10 @ 25
Planned	50 @ 6.00		50 @ 1.00	37 @ 50
Sandstone:				
Longwood	80 @ 90	80 @ 90		
Kilbo	80 @ 90	80 @ 110		
Brown (Connecticut)	1 00 @ 95	1 25 @ 145	1 50 @ 1.00	95 @ 116
Amherst	90 @ 95	90 @ 100	45 @ 50	1 05 @ 135
Berea	75 @ 1.00	80 @ 90	45 @ 50	55 @ 1.00
Berlin	75 @ 1.00	80 @ 90	45 @ 50	
Bellefonte	80 @ 1.25	1 25 @ 135	1 25 @ 1.00	1 10 @ 1
New Brunswick (Dorchester)	80 @ 1.00	75 @ 90		1 00 @ 1
Olsen	80 @ 1.05	75 @ 90		1 25 @ 1
Carlisle, English	80 @ 1.05	75 @ 90		95 @ 1
Corse Hill (Schock)	80 @ 1.05	75 @ 90		
Marble (By cu. ft.)				
Lee, Mass.	1 75 @ 2.50	1 75 @ 2.50	Not sold.	2 00 @ 2.50
Bedford, white and blue	3 00 @ 3.00	3 00 @ 3.00	3 50 @ 6.00	2 00 @ 3.00
Sutherland Falls	2 00 @ 2.00	2 00 @ 2.00	3 50 @ 6.00	1 70 @ 3.00
Glens Falls, black			Not sold.	4 00 @ 4.50
Italian, blue-veined			Not sold.	2 50 @ 2.75
"Sienna			Not sold.	5 00 @ 5.00
Tennessee, red			4 40 @ 4.40	4 00 @ 6.00
"Knoxville			4 40 @ 4.40	3 00 @ 4.00
Pennsylvania, blue			Not sold.	2 00 @ 3.00
Vermont, white			3 50 @ 6.00	2 25 @ 3.00
Slates: Roofing (By square)				
"green	5 00 @ 6.00	4 75 @ 5.25	5 50 @ 6.15	3 20 @ 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	7 50 @ 10.25
"black, Lehigh			6 25 @ 8.85	3 25 @ 4.00
"Chapman			7 30 @ 8.00	4 00 @ 4.65
"Unfading Black, Monson, Me.	5 50 @ 8.00	5 50 @ 8.0	6 00 @ 9.00	5 50 @ 8.00
Tiles, Am.			Not sold.	6 00 @ 25.00
N. Peach Bottom, warranted unfading				6 00 @ 6.75
PAINTS. (In oil, By lb.)				
White lead, Am.	7 @ 74	7 @ 74	64 @ 7	dry Eng. 7
"Zinc	5 @ 84	5 @ 84	7 @ 104	Eng. 8
Red lead, Am.	6 @ 7	7 @ 74	64 @ 7	dry Am. 66
"Venetian	6 @ 104	7 @ 74	12 @ 24	
"Vermilion	6 @ 70	7 @ 74	65 @ 68	
Red Indian, Eng.	12 @ 20	12 @ 20	12 @ 20	
Yellow Ochre	6 @ 15	7 @ 12	8 @ 15	
"Chrome	12 @ 20	18 @ 20	8 @ 20	
Green (chrome)	8 @ 13	25 @ 40	18 @ 35	
Green, Paris	25 @ 40	15 @ 25	8 @ 35	
Black, lamp	15 @ 25	18 @ 30	12 @ 30	
Blue, ultramarine	12 @ 18	39 @ 60	57 @ 60	
Oil, linseed, (raw)	61 @ 62	62 @ 63	61 @ 63	
"boiled	43 @ 44	45 @ 48	51 @ 51	
Turpentine		1 50 @ 6.00	1 25 @ 2.00	
Varnish, coach		2 50 @ 3.00	2 25 @ 4.00	
Shellac			62 @ 62	
Putty	2 @ 4	1 @ 14	1 @ 14	
Whiting	7 @ 1.00	1 @ 14	1 @ 14	
Paris white, (Eng.)	1 30 @ 2.00	2 @ 3	1 @ 2	
Litharge, Am.	14 @ 20	14 @ 20	4 @ 16	
Sienna (burnt)	14 @ 20	14 @ 20	2 @ 10	
Umber	14 @ 20	14 @ 20		
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought.)	2 @ 2.85		2 05 @ 2.15	pr kg 2 25
10d. common	2 @ 2.85		2 @ 2.85	2 30 @ 2.30
Shingle	2 @ 3.35		2 @ 3.35	2 60 @ 2.60
Lath	4 @ 4.85		3 @ 3.55	3 60 @ 4.75
Finishing nails according to size.			Add .85 to \$1.15	per lb 4 @ 6
(For casing nails add 75c. per keg.)			" .50 to .90	Add pr cask
Butts: 4" x 4"				2 90 (all kinds.)
Plain	1 00 @ 1.00	1 20 @ 1.20	65 @ 1.00	1 35 @ 2.00
Japanned	1 50 @ 1.50	1 75 @ 1.75	Not sold.	1 35 @ 2.75
Acorn, Japanned	1 50 @ 1.50	1 90 @ 1.90	Not sold.	45 @ 50
Ball Tip, Boston Finish	65 @ 65	plain 1 65 @ 1.65	2 00 @ 3.25	1 25 @ 1.25
Bronze metal	1 90 @ 1.90		2 00 @ 3.25	1 00 @ 1.00
Brass (10" supboards)	10 @ 10		1 25 @ 1.25	35 @ 35
Ebony			1 30 @ 1.30	37 @ 1.00
Apple wood				
Knobs: (By Set.)				
Mineral, best	8 @ 8	8 @ 8	8 @ 10	Not sold.
Lava	Not sold	17 @ 33	65 @ 80	25 @ 50
Hemlock	Not sold	10 @ 10	31 @ 40	25 @ 25
Porcelain	30 @ 30		25 @ 30	1 00 @ 2.50
Glass, solid	Not sold		Not sold.	1 75 @ 2.00
Glass, silvered	Not sold	80 @ 1.00	50 @ 1.50	50 @ 3.50
Bronze metal	75 @ 2.00	50 @ 3.00	1 50 @ 3.00	75 @ 1.25
Brass	1 00 @ 2.50		1 30 @ 1.50	22 @ 35
Boiler:				
Sheet Lead				6 @ 6
Lead Pipe				
Iron:				
I-Beams, up to and including 30 ft.	3 3-10 @ 34	3 3-10 @ 34		2 8-10 @ 2.8-10
I-Beams, over 30 ft. 1/2, 1, 1 1/2 c. advance.	3 3-10 @ 34	3 3-10 @ 34		2 8-10 @ 2.8-10
Channel-Beams				

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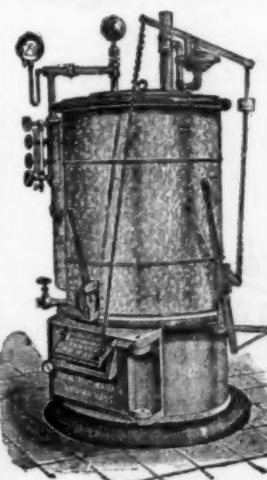
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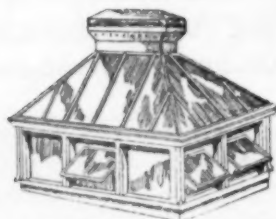
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Illustrated Catalogue on application.

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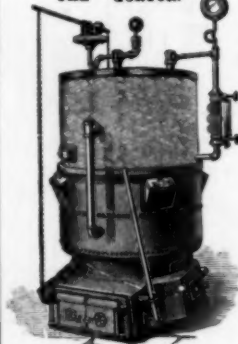
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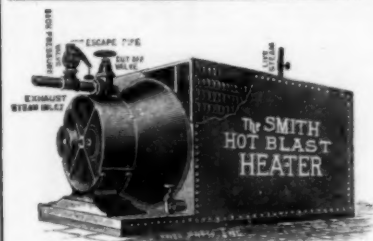
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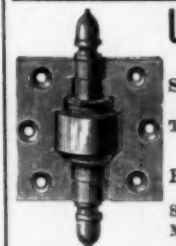


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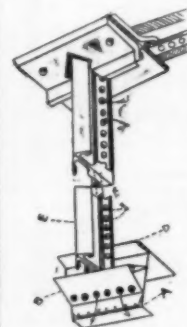
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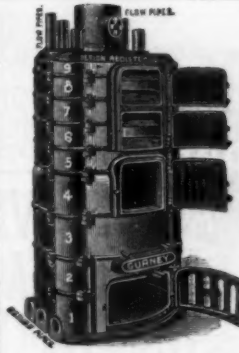
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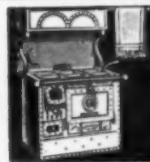
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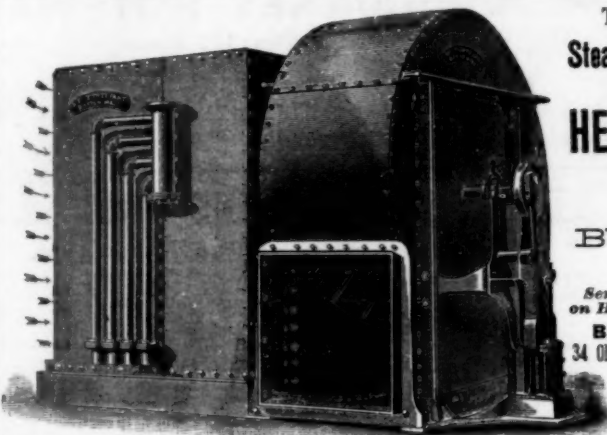


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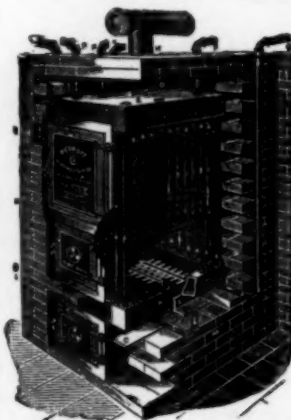
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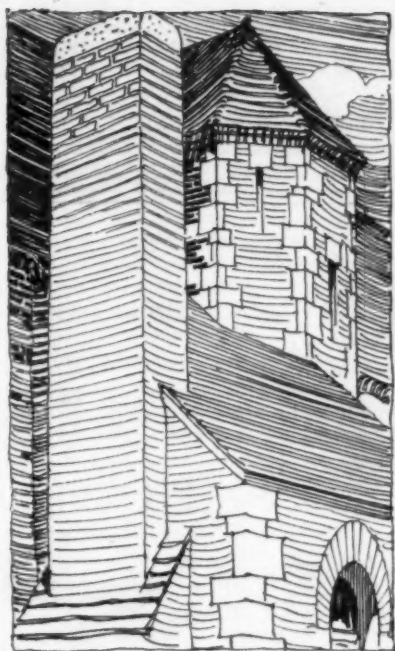
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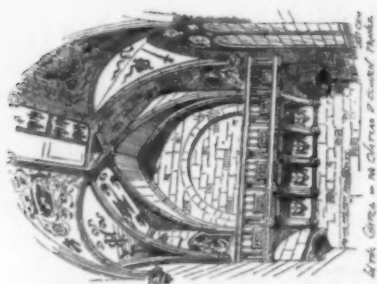


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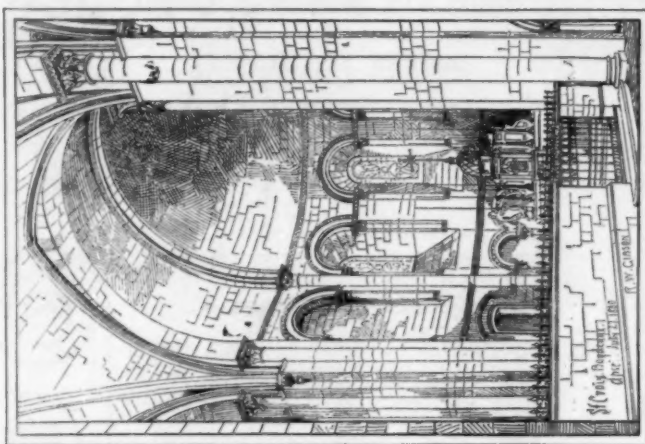
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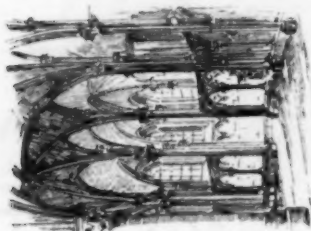
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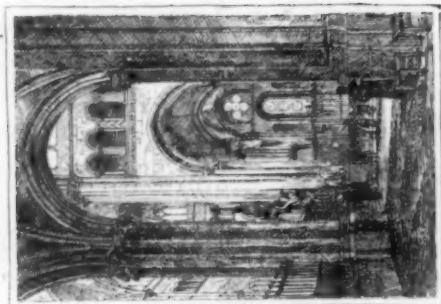
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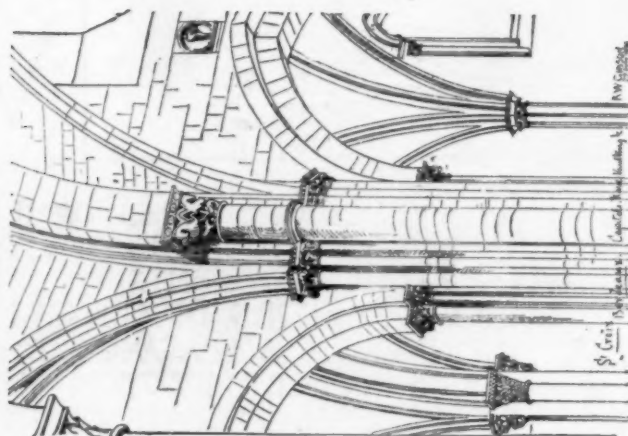
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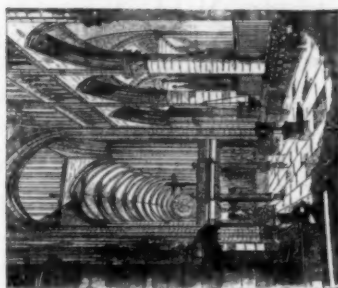
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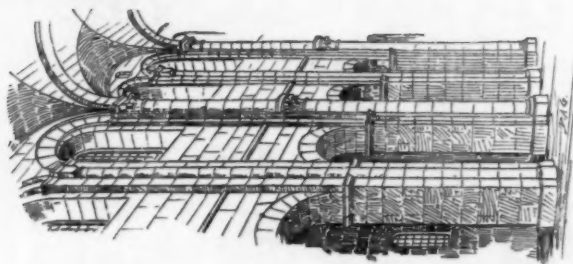
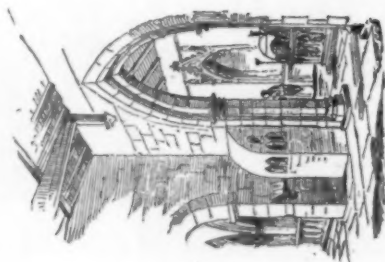
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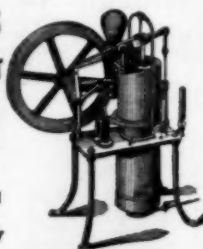
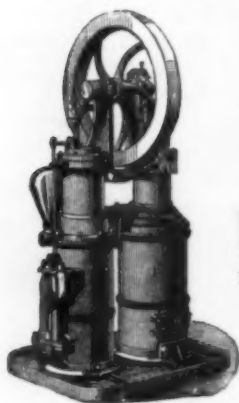
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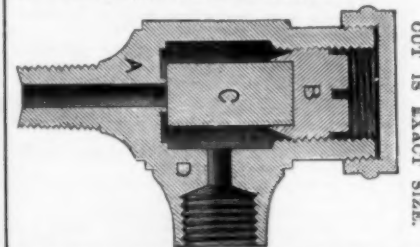
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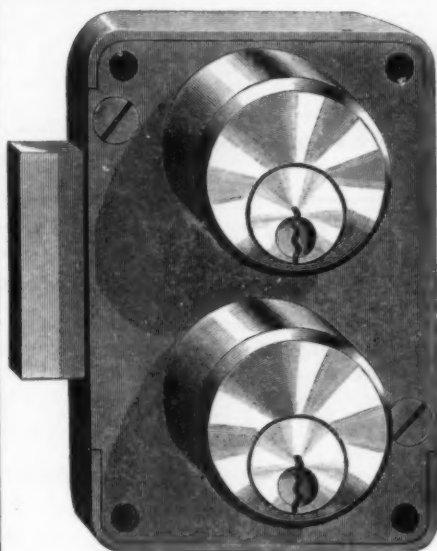
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New Advertisements.

MURPHY & CO. (Newark, N. J.), Varnish. Page xlii.
ALSEN'S CEMENT WORKS (New York, N. Y.), Cement. Page 4, Cover.
THE MUTUAL LIFE INSURANCE OF NEW YORK (New York, N. Y.), Insurance. Page xvii.
O. G. STAPLES (Washington, D. C.), Hotel. Page li.

PERSPECTIVE DRAWING.

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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.]

ALTERATIONS.

Buffalo, N. Y.—Two-sty annex to brick dwell. for Geo. W. Miller; dimensions 25' x 30', slate roof, palm-room, fountains, etc., interior decorations for entire dwell.; architect, E. A. F. Newcomb, Boston.
Chicago, Ill.—W. W. Ellis, 2 five-sty additions, 1608 Wabash Ave.; cost, \$10,000.

BUILDING INTELLIGENCE.

The Caroussell Co., one-sty addition, 3129-3135 State St.; cost, \$5,000.

Kennebunkport, Me.—Addition to frame casino, reading-room, smoking-room, carriage-porch, etc.; architect, Henry Paston Clark, Boston.

New York, N. Y.—Crosby St., Nos. 129-131, seven-sty brick factory, repaired where damaged by fire; cost, \$7,000; owner, Leo Schlessinger, 128 East Seventy-fourth St.; builder, Edward Smith, 47 Ann St.

East Ninety-first St., No. 213, four-sty brick factory, raised to five stories; cost, \$7,000; owners, Geo. Ringler Brewing Co., 212 East Ninety-second St.; architect, Frank Weunemer, 204 East Eighty-sixth St.

Elizabeth St., Nos. 46-50, 2 six-sty brick factories, raised to seven stories; cost, \$5,000; owner, Chas. Gulden, 104 West Ninety-fourth St.; architect and builder, W. H. Arnott, 385 Canal St.

East Broadway, No. 78, three-sty brick dwell., extension and internal changes; cost, \$8,000; owner, Isidor Lewhowitz, 121 East Sixty-fourth St.; architect, William Graul, 215 Bowery.

Ninth Ave., n e cor. Sixtieth St., three-sty brick dwell., altered internally; cost, \$4,000; owners, Lowen

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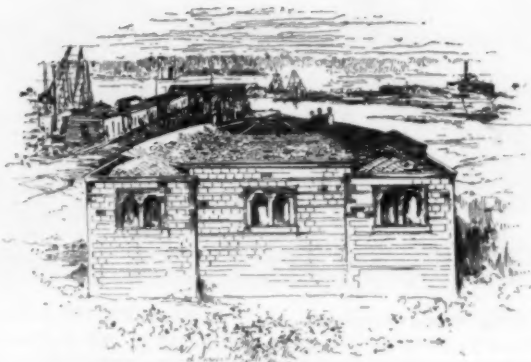
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& Halliday, 400 West Forty-sixth St. and 1791 Ninth Ave.; architects, Herter Bros., 191 West Broadway.

Philadelphia, Pa.—Eleventh St., cor. Decota St., alterations; contractors, W. W. Binder & Son, 1909, Columbia Ave.

North Fifth St., No. 2338, interior alteration; owner, H. G. Schultz, 2633 Germantown Ave.

South Twenty-fourth St., No. 1142, front alteration; contractor, J. C. Backofer, 1144 South Twenty-fourth St.

Rockport, Mass.—New north wing to Turk's Head, Inn, 35' x 100', three stories, with one-sty' connection, 32' x 45'; billiard-room annex to south wing, 22' x 35'; owner, Dr. F. M. Weld; builder, J. M. Wetherell; architects, Daniel Appleton & H. M. Stephenson, Boston.

Sharon, Mass.—Addition and alteration to frame dwell. for Geo. B. Fowler; cost, \$3,000; architects, Daniel Appleton & H. M. Stephenson, Boston.

St. Louis, Mo.—Alter five-sty' brick store; cost, \$2,775; owner, Washington University; contractors, F. C. Bonasack & Co.

APARTMENT-HOUSES.

Chicago, Ill.—John Sundin, two-sty' flats, 4424 Evans Ave.; cost, \$3,000.

John Areta, two-sty' flats, Sixty-third St. and Cottage Grove Ave.; cost, \$4,000.

Anton Mellie, two-sty' flats, 148 Clifton Ave.; cost, \$2,500.

Vogtech Jirik, two-sty' flats, 713 Van Horn St.; cost, \$2,700.

E. M. Jagger, 6 two-sty' flats, 1468-1478 Warren Ave.; cost, \$35,000.

Joe J. Bufton, three-sty' flats, 195 Oakley Ave.; cost, \$4,000.

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C. G. Fanning, two-sty' flats, 1027 Park Ave.; cost, \$4,000.

H. Hughes, 2 three-sty' flats, 1234-1236 Monroe St.; cost, \$10,000.

Geo. J. Shannon, three-sty' flats, Sixty-ninth and Dickey Sts.; cost, \$10,000.

Fred Smith, two-sty' flats, 721 Matson St.; cost, \$1,300.

John Hubart, two-sty' flats, 137 Ogrove St.; cost, \$2,200.

Mrs. L. O. Cochran, three-sty' flats, 248-250 North Lincoln St.; cost, \$4,000.

Denver, Col.—Brick apartment-house; cost, \$40,000; owner, G. W. Timmerman; architects, Lang & Pugh.

New York, N. Y.—Second St., s s, 100' e Second Ave., 2 five-sty' brick flats, tin roofs; cost, \$34,000; owner, S. B. A. Judah estate, 55 Broadway; architects, D. & J. Jardine, 1262 Broadway.

Willis Ave., s e cor. One Hundred and Thirty-fourth St., five-sty' brick flat, tin roof; cost, \$26,000; owner, Stephen J. Egan, 630 East One Hundred and Thirty-eighth St.; architect, John C. Burne, 1531 Third Ave.

Willis Ave., e s, 29' s One Hundred and Thirty-fourth St., 5 five-sty' brick flats, tin roofs; cost, \$57,000; owner, Stephen J. Egan, 630 East One Hundred and Thirty-eighth St.; architect, John C. Burne, 1531 Third Ave.

One Hundred and Thirty-fourth St., s s, 75' e Willis Ave., five-sty' brick flat, tin roof; cost, \$20,000; owner, Stephen J. Egan, 630 East One Hundred and Thirty-eighth St.; architect, John C. Burne, 1531 Third Ave.

Roosevelt St., n w cor. Cherry St., five-sty' brick flat, tin roof; cost, \$16,000; owner, Charles Wich-



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BUILDING INTELLIGENCE.

man, 53 Cherry St.; architect, Joseph Wolf, 55 Liberty St.
Third Ave., No. 1968, five-sty' brick flat, tin roof; cost, \$18,000; owner, John D. Karst, Jr., 1874 Third Ave.; architect, Alex. I. Finkle, s w cor. Broadway and Spring St.

St. Louis, Mo.—Two-sty' brick flats; cost, \$5,000; owner and contractor, E. P. Dickson.

Two-sty' brick flats; cost, \$9,000; owner and contractor, Henry Feuerback.

Three adjacent two-sty' brick flats; cost, \$5,000; owner and contractor, T. Flannery.

CHURCHES.

Denver, Col.—Bert St., cor. Tay St., stone church; cost, \$50,000; owners, North Denver M. E. Church Society; architects, Kidder & Humphreys.

Milton, N. H.—On the Nuts farm, brick church, 40' x 60'; cost, abt. \$10,000; architects, Allen & Kenway, Boston; builder, F. H. Blake, Rochester.

Topeka, Kan.—Clergy-house for Grace Cathedral,

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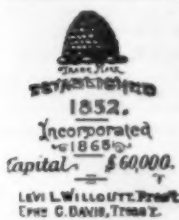
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BUILDING INTELLIGENCE.

stone and shingles, Eighth and Taylor Sts.; cost, \$5,000; architect, Seymour Davis.

FACTORIES.

Baltimore, Md.—Richard Cromwell estate, three-sty brick factory, s s King St., e Fremont St.

New York, N. Y.—Eighteenth St., s s, 115' w Avenue B, two-sty brick factory, tin roof; cost, \$4,000; owner, Thomas E. Tripler, 223 East Eighteenth St.; architect, Benjamin E. Lowe, 64 College Pl.

St. Louis, Mo.—Two-sty brick factory; cost, \$4,500; owner, A. Kessler; contractor, A. H. Haesseler.

HOTELS.

Philadelphia, Pa.—Eleventh St., n w cor. Pine St., ten-sty hotel; contractors, J. E. & A. L. Pennock, 305 Walnut St.

HOUSES.

Baltimore, Md.—C. Brauer, three-sty brick building, s e cor. Harford Ave. and Lanvale St.

Edward J. Gallagher, 4 two-sty brick buildings, e s Burke St., s Fayette St.

Maryland Theatre Co., 3 three-sty brick buildings, e s Low St., bet. Front St. and the Falls.

J. S. Ditch & Bros., three-sty brick building rear cor. Charles and First Sts. (city annex.)

F. B. Speed, 5 two-sty brick buildings, e s Francis St., s Retreat St.

Geo. E. Evans, 7 two-sty brick buildings, w s Hudson Alley, bet. Third and Fourth Sts.

Boston, Mass.—Idaho St., near River St., Ward 24, frame dwell., 20' x 26'; owner, Dudley Talbot; builder, A. M. Hobbs.

Sparhawk St., No. 18, Ward 25, frame dwell., 32' x 48'; owners, Davenport & Leonard; builder, S. N. Davenport.

Arundel St., near Watter St., Ward 23, frame dwell., 19' x 29'; owner, O. K. Smith.

Knocles St., near Ewelett St., Ward 23, frame dwell., 22' x 34'; owner, Mary A. Griswold; builder, W. Griswold.

Bellevue Ave., cor. Cypress St., Ward 23, frame dwell., 20' x 28'; owner and builder, W. S. Colwell.

Bailey St., off Washington St., near Keyes St., Ward 23, three-sty frame dwell., flat roof, 24' x 40'; owner, Wm. Curran; builder, G. A. Cahill.

Fuller St., near Morton St., Ward 24, frame dwell., 20' x 30'; owner and builder, S. Rockwell.

Unnamed St., off Harvard St., Ward 20, frame

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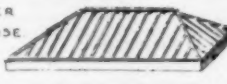
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BUILDING INTELLIGENCE.

dwell., 20' x 40'; owner, S. F. Boynton; builders, Singer & Brown.

Warren St., Ward 21, 3 four-sty brick dwells. and stores, flat roofs, 24' x 40', 65' x 40', 50' x 40'; owner and builder, J. C. Dimock.

Allston St., No. 11, Ward 24, frame dwell., 24' x 41'; owner, W. B. Smart; builder, J. F. Haddock.

Unnamed St., off Harvard St., Ward 25, frame dwell., 13' x 40'; owner, S. F. Boynton; builders, Singer & Brown.

Berkeley St., Nos. 5-6, Ward 16, four-sty brick dwell. and store, 38' x 42'; owner, S. K. Baker; builder, T. Hurley.

Chestnut Hill, Mass.—Sutherland Rd., frame dwell., 60' x 70'; owner and builder, William H. Stewart; architect, E. A. P. Newcomb, Boston.

Sutherland and Lanark Rds., frame dwell., 50' x 90'; Italian style; owner, Mrs. Lillian B. Kelly; builder, Wm. H. Stewart; architect, E. A. P. Newcomb, Boston.

Chicago, Ill.—M. Wachowski, cottage, 84 Edgar St.; cost, \$1,100.

C. Jensen, one-and-one-half-sty cottage, 102 Clarkson Ave.; cost, \$1,000.

Martha Hillman, two-sty dwell., 1248 Washington Bl.; cost, \$8,000.

D. Shumacher, two-sty dwell., 5213 Centre Ave.; cost, \$1,300.

Aug. C. Rowell, cottage, Sangamon St., near Sixty-seventh St.; cost, \$1,000.

John F. Murray, two cottages, Sangamon St., near Seventy-third St.; cost, \$1,500.

J. B. Lucas, two-sty dwell., 2397 Robey St.; cost, \$2,000.

Patrick Cratty, cottage, 8929 Superior St.; cost, \$1,000.

M. Staszewski, cottage, Exchange Ave.; cost, \$1,500.

John Charvan, cottage, 769 Van Horn St.; cost, \$1,300.

Waitrok & Constanik, two cottages, 1210-1212 West Twenty-first St.; cost, \$1,800.

John Chousking, two-sty dwell., 4402 Wood St.; cost, \$2,300.

Rutledge Bros., two-sty dwell., Paulina St., near Forty-sixth St.; cost, \$1,500.

R. Williams, cottage, 620 Basil St.; cost, \$1,000.

G. B. Shaw, three-sty dwell., 3423 Michigan Ave.; cost, \$20,000.

Wm. Fink, six cottages, Morris St., near Wright St.; cost, \$6,000.

J. Sagar, three-sty dwell., 329 Park Ave.; cost, \$9,000.

H. G. Eickstein, two-sty dwell., Vincennes Ave.; cost, \$16,000.

J. D. Trenton, two-sty dwell., 6929 Honore St.; cost, \$3,000.

P. Kline, cottage, 2041 North Ashland Ave.; cost, \$1,000.

J. F. Keeney, three-sty dwell., 2622-2624 Michigan Ave.; cost, \$50,000.

BUILDING INTELLIGENCE.

Denver, Col.—Pearl St., brick and stone dwell.; cost, \$8,500; owners, Flower & Patterson; architect, J. J. Huddart.

Columbine St., brick dwell.; cost, \$7,000; owner, F. W. Bartels; architects, Lang & Pugh.

Corona St., brick dwell.; cost, \$8,000; owner and architect, F. E. Kilder.

Logan Ave., brick dwell.; cost, \$22,000; owner, F. V. Farnum; architects, Andrews, Jaques & Rantoul.

South Fifteenth St., brick dwell.; cost, \$5,000; owner, J. M. Emerins; architects, Lang & Pugh.

Pennsylvania Ave., double brick dwell.; cost, \$15,000; owner, Harvey Lowrie; architects, Balcomb & Rice.

Washington Ave., brick dwell.; cost, \$8,000; owner and architect, J. H. Phillips.

Downing Ave., brick dwell.; cost, \$7,000; owner, J. W. Rogers; architect, F. C. Eberly.

Detroit, Mich.—R. Bell, two-sty double brick dwell., 302-304 Fourth St.; cost, \$5,000.

R. Bell, brick dwell., 45 Cherry St.; cost, \$2,500.

E. A. Waterfall, 2 two-sty frame dwells., 258-260 Canfield Ave.; cost, \$3,800.

D. Whitney will commence the construction of what will probably be the finest dwell. in Detroit in the early spring. It will be wholly of Sioux Falls Jasper, with copper roof; architect, Gordon W. Lloyd.

Dorchester, Mass.—Magnolia St., cor. Lawrence Ave., frame dwell., 30' x 50'; owner, F. W. Hill; builder, Mr. Jameson; architect, Henry Paston Clark, Boston.

Dublin, N. H.—Frame dwell., old colonial style, 30' x 70', with L; owner, Mrs. Parkhurst; builder, A. L. Ball; architect, E. A. P. Newcomb, Boston.

Malden, Mass.—Pleasant and Cedar Sts., frame dwell., old colonial style, 32' x 43', with L, 18' x 26'; cost, abt. \$75,000; owner, Dr. G. Rider; builder, I. S. Tarbox; architects, Daniel Appleton and H. M. Stephenson, Boston.

Manchester, N. H.—Dwell., English style, 60' x 68'; brownstone first story, open timber-work and cement second story, slate roof, with stone tower; foundation already in; owner, Frank P. Carpenter; contract to be let; architect, E. A. P. Newcomb, Boston.

New York, N. Y.—Montgomery St., No. 28, five-sty brick dwell., tin roof; cost, \$14,000; owner, Joseph Goldstein, 214 Clinton St.; architect, Herman Horenburger, 99 East Third St.

Ninety-fourth St., s s, 90' e Fifth Ave., 4 four-sty brick dwells.; cost, \$80,000; owner, John H. Gray, 1065 Park Ave.; architects, A. B. Ogden & Son, 1031 Madison Ave.

One Hundred and Thirty-fifth St., Nos. 170-181, 2 four-sty brick dwells., tin roofs; cost, \$20,000; owner, C. A. Southard, 203 West One Hundred and Thirty-third St.; architects, Berg & Clark, 10 West Twenty-third St.

Philadelphia, Pa.—Jefferson St., n s, e Wood St.,

STATEMENT OF The Mutual Life Insurance Co. of New York,

RICHARD A. McCURDY, President,

For the year ending December 31st, 1889.

Assets,	\$136,401,328 02
Increase in Assets,	\$10,319,174 46
Surplus,	\$9,657,248 44
Increase in Surplus,	\$1,717,184 81
Receipts,	\$31,119,019 62
Increase during year,	\$4,903,087 10
Paid Policy-Holders,	\$15,200,608 38
Increase during year,	\$473,058 10
Risks assumed,	\$151,602,483 37
Increase during year,	\$48,388,222 05
Risks in force,	\$565,949,933 02
Increase during year,	\$83,824,749 56
Policies in force,	182,310
Increase during year,	23,941
Policies written in 1889,	44,577
Increase over 1888,	11,971

THE ASSETS ARE INVESTED AS FOLLOWS:

Real Estate and Bond & Mortgage Loans,	\$69,361,913 13
United States Bonds and other Securities,	\$50,323,469 81
Loans on Collateral Securities,	\$9,845,500 00
Cash in Banks and Trust Companies at interest,	\$2,988,632 70
Interest accrued, Premiums deferred and in transit, etc.	\$3,881,812 20
	\$136,401,328 02

Liabilities (including Reserve at 4%), \$126,744,079 58

I have carefully examined the foregoing statement and find the same to be correct.
A. N. WATERHOUSE, Auditor.

From the Surplus above stated a dividend will be apportioned as usual.

Year.	Risks Assumed.	Risks Outstanding.	Assets.	Surplus.
1884	\$34,681,420	\$351,789,285	\$103,876,178 51	\$4,743,771
1885	46,507,139	368,981,441	108,908,967 51	5,012,634
1886	56,392,719	393,809,203	114,181,963 24	5,643,568
1887	60,457,468	427,628,933	118,806,851 88	6,294,442
1888	103,214,261	482,125,184	126,082,153 56	7,940,063
1889	151,602,483	565,949,934	136,401,328 02	9,657,248

NEW YORK, January 29th, 1890.

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BUILDING INTELLIGENCE.

two-sty' dwell.; owner, John Mellveen, 148 Jefferson St., Manayunk.
Ely St., s a, a Carpenter St., 2 two-sty' dwells.; owner, Michael Jennings, n e cor. Fifth St. and Washington Ave.
Prohibition Ave., w Jefferson St., 4 three-sty' dwells.; owner, S. S. Keeley, 350 Green La.
Lions Ave., w s, s Eightieth St., two-sty' dwell.; owner, Fredk. Paulson, 2129 Tower St.
Fifth St., w s, s Erie Ave., two-sty' dwell.; contractor, Saml. Morrison, 3051 North Fifth St.
Hagerman St., n Tyson St., two-sty' dwell.; contractor, Saml. Eckert, 317 Bridge St.

BUILDING INTELLIGENCE.

Nineteenth St., n w cor. McClellan St., two-sty' dwell.; contractor, C. B. Prettyman, w s Twentieth St., n Wharton St.
Twentieth St., n w cor. Morris St., 2 two-sty' dwells.; contractor, Jas. Galligan, n e cor. Nineteenth and Reed St.
Titan St., n s, w Ellsworth St., 20 three-sty' dwells.; contractor, C. B. Prettyman, 1252 South Twentieth St.
Belig St., e s, s Jefferson St., two-sty' dwell.; owner, Benj. Whitehouse, Roxborough.
Eighty-eighth St., Elmwood Land Co., two-sty' dwell.; owner, Patrick Bradley, 740 Medina St.

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BUILDING INTELLIGENCE.

Fletcher St., n s, e Twenty-seventh St., three-sty' dwell.; contractor, Jas. H. Young, 1302 South College Ave.
Plymouth, Mass. - On Indian Hill Farm, frame dwell., 30' x 30'; owners, Messrs. Howe & Blodgett; architect, E. A. P. Newcomb, Boston.
Providence, R. I. - Dartmouth Ave., frame dwell.; cost, \$3,000; owner, Roger F. McCram; builder, Joseph Bebo.
Bridgman St., frame dwell.; owner, Mrs. Lucy F. Vaughn; builders, Cornell & Peavey.
Covells St. and Atwells Ave., frame dwell.; cost, \$2,500; owner, Elizabeth Lucas; builder, Patrick Mack.
Pratt St., frame dwell.; cost, \$4,500; owner, Wm. Fitch; architect, C. F. Wilcox; builders, Ayer & Arnold.
Springfield, Mass. - O. C. Leonard, frame dwell., Marble St.; architects, Richmond & Seabury.
J. D. & W. H. McKnight are building four frame dwells. on Princeton St.
St. Louis, Mo. - Two-sty' brick dwell.; cost, \$3,000; owner and contractor, W. H. Frantz.
Two-sty' brick dwell.; cost, \$3,300; owner and contractor, M. Wipfler.
Two-sty' brick dwell.; cost, \$4,100; owner, J. Michel; contractors, Mattheis & Schneider.
Two-sty' frame dwell.; cost, \$3,000; owners and contractors, Newberry & Valentine.
Two-sty' frame dwell.; cost, \$3,500; owners and contractors, Newberry & Valentine.
Two-sty' frame dwell.; cost, \$2,800; owners and contractors, Newberry & Valentine.
Two-sty' frame dwell.; cost, \$2,500; owners and contractors, Newberry & Valentine.
Two two-sty' frame dwells.; cost, each, \$3,000; owner and contractor, R. H. Newberry.
Three-sty' brick dwell.; cost, \$3,500; owner and contractor, H. Bauer.
Two-sty' brick dwell.; cost, \$22,000; owners, S. A. & McCaffrey; contractor, J. M. McCaffrey.
Three-sty' brick dwell.; cost, \$2,500; owner, H. Wehenberg; contractor, C. Kellermann.
Two-sty' brick dwell.; cost, \$3,000; owner and contractor, C. C. Newberry.
Two-sty' brick dwell.; cost, \$5,000; owner, G. Banton; contractor, Gus Koch.
Two-sty' brick dwell.; cost, \$2,700; owner and contractor, F. Knittel.
Two-sty' brick dwell.; cost, \$2,500; owner, E. Emerson; contractor, D. Strong.
Two-sty' brick dwell.; cost, \$11,000; owner, Phil Medart; contractors, A. Uhrie & Son.
Two-sty' brick dwell.; cost, \$9,600; owner, J. Kraus; contractor, J. B. Schaefer.
Two-sty' brick dwell.; cost, \$3,800; owner, Wm. Pouty; contractor, H. Sothmann.
Two-sty' frame dwell.; cost, \$3,810; owner, W. K. Richards; contractor, G. Koch.
Topeka, Kan. - Block of, pressed-brick dwells. on Potwin Pl.; cost, \$10,000; owner, Wm. Humphrey; architect, A. J. Ashley.
Dwell.; cost, \$6,000; owner, John Stewart, Esq.; architect, A. J. Ashley.

OFFICE-BUILDINGS.

Los Angeles, Cal. - Five-sty' stone office-building for N. W. Stowell; cost, \$60,000.

New York, N. Y. - Broadway, No. 29, and Morris St., Nos. 2-4-6, twelve-sty' brick office-building, mansard on street, flat above corrugated tile and tin roof; cost, \$400,000; owner, Spencer Aldrich, 95 Park Ave.; architects, Youngs & Cable, 45 Broadway.

Philadelphia, Pa. - Kensington Ave., w s, n York St., one-sty' office; contractor, Thos. Matthews, 2334 Hancock St.

PUBLIC BUILDINGS.

New York, N. Y. - A new court-house will be built at One Hundred and Twenty-first St. and Third Ave. as soon as the necessary legislation can be secured at Albany.

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BUILDING INTELLIGENCE.**RAILROAD BUILDINGS.**

St. Louis, Mo. — One-st'y brick car-shed; cost, \$17,000; owners, Union Depot Railway Co.; contractor, C. Lillenkohl.

Wichita, Kan. — Limestone and red sandstone passenger depot for the A. T. & S. F. R. R.; cost, \$20,000; architects, Perkins & Adams, Topeka, Kan.

SCHOOL HOUSES.

Athol, Mass. — A \$40,000 school-building is to be built.

Milton, N. H. — The Nute High-school and Library, brick and stone, 26' x 112'; cost, abt. \$25,000; builder, A. A. Currier, Lawrence, Mass.; architects, Allen & Kenway, Boston.

New York, N. Y. — One Hundred and Fifty-seventh St., e s, 31' 24" e Courtland Ave., four-st'y brick school-building, tin roof; cost, \$150,000; owner, City of New York; architect, Geo. W. Debevoise, 140 Grand St.

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FURNACES FLUES &c.
NEW YORK
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BUILDING INTELLIGENCE.

Plymouth, N. H. — Allen & Kenway, architects, Boston, are making plans for the State Normal School to be of brick and stone, three stories high; dimensions, 80' x 120'; contract to be let.

STABLES.

Boston, Mass. — Codman St., near opp. Carruth St., Ward 24, two-st'y frame stable, pitch roof, 25' x 36'; owner and builder, W. Hannan.

Euclid St., rear, near Washington St., Ward 24, two-st'y frame stable, flat roof, 20' x 32'; owner, H. W. Garland; builder, A. B. Sherman.

New York, N. Y. — Seventy-third St., s s, 100' w Third Ave., four-st'y brick stable; cost, \$10,000; owner, Simon Kayton; architect, A. Spence.

Eighteenth St., 451' w, four-st'y brick stable; cost, \$12,000; owner, F. S. Ferguson; architect, J. E. Terhune.

Eighty-ninth St., n s, 82' 2" w Park Ave., five-st'y brick stable, tin roof; cost, \$25,000; owner, Edward J. Curry, 1267 Lexington Ave.; architects, Thom & Wilson, 1267 Broadway.

One Hundred and Forty-third St., n s, 475' w Grand Boulevard, two-st'y brick stable, tin roof; cost, \$5,000; owners, J. & W. Leeson, 171 West One Hundred and Thirty-third St. and 2271 Seventh Ave.; architect, J. Averill Webster, 110 East One Hundred and Twenty-fifth St.

Philadelphia, Pa. — Leithgow St., e s, n Diamond St., two-st'y stable; contractor, Charles Roth, 408 West Huntingdon St.

Carr St., e s, near Limekiln Pike, one-st'y stable; owner, Alexander Branchtown.

Sprague St., s s, w Stenton Ave., two-st'y stable; owner, Patrick McDonald, n w cor. Stenton Ave. and Sprague St.

STORES.

Boston, Mass. — Merrimac St., Nos. 6-14, and Friend St., Nos. 111-117, Ward 7, seven-st'y brick stores, flat roof, 61.4' x 99'; owner, Warren Sherburne; builders, Coon & Hall.

Chicago, Ill. — Vuclae Doiges, two-st'y store and dwell., Winchester and Forty-seventh Sts.; cost, \$2,200.

John B. Brower, 4 three-st'y stores and flats, Seventy-second St. and Vincennes Ave.; cost, \$25,000.

BUILDING INTELLIGENCE.

George Dressel, two-st'y store and flats, 3700 Wallace St.; cost, \$1,000.

William Clark, two-st'y store and flats, 6006 South State St.; cost, \$2,200.

Victor Buschser, two-st'y store and dwell., 1174 West Harrison St.; cost, \$5,000.

James Cahill, three-st'y store and flats, 748 West Madison St.; cost, \$5,000.

D. & J. Hardin, four-st'y store and flats, 3847-3849 State St.; cost, \$15,000.

S. H. Wheeler, two-st'y store, 1373 West Lake St.; cost, \$2,000.

L. W. Perce, four-st'y store and flats, Cottage Grove Ave.; cost, \$5,000.

Detroit, Mich. — J. L. Hudson will commence the building of a large eight-st'y store in the spring; cost, abt. \$250,000; architect, Mortimer L. Smith.

D. Whitney and Wm. Reid will build a five-st'y store; cost, abt. \$40,000; architect, Gordon W. Lloyd.

Hess & Rasmann, two-st'y brick store and dwell., 443 Winder St.; cost, \$3,000.

New York, N. Y. — Eighth Ave., w s, 23' s Fifty-sixth St., six-st'y brick store-building, metal roof; cost, \$85,000; owner, Mrs. Mary H. Lester, 231 West Twenty-fifth St.; architects, Parrott Bros., 36 Court St., Brooklyn, N. Y.

Philadelphia, Pa. — Twentieth St., n w cor. Morris St., two-st'y store and dwell.; contractor, Jas. Galligan, Nineteenth and Reed Sts.

Oram St., No. 2800, three-st'y store and dwell.; owner, Martin Scully, 2800 Oram St.

Lawrence St., n w cor. Butler St., one-st'y store; owner, Otto Horn, 3204 North Fifth St.

Seventeenth St., n e cor. Sanderson St., one-st'y store; owner, Jas. Evans, 1160 South Broad St.

St. Louis, Mo. — Two-st'y brick store and dwell.; cost, \$11,200; owner, Jno. Ringen; contractors, S. C. McCormack & Co.

Two-st'y brick store and dwell.; cost, \$15,000; owner and contractor, Edward Lee.

Three-st'y brick store and flats; cost, \$4,500; owners, M. V. Steign Dy. Co.; sub-let.

One-st'y brick store; cost, \$4,000; owner, Collier estate; contractor, J. W. Givens.

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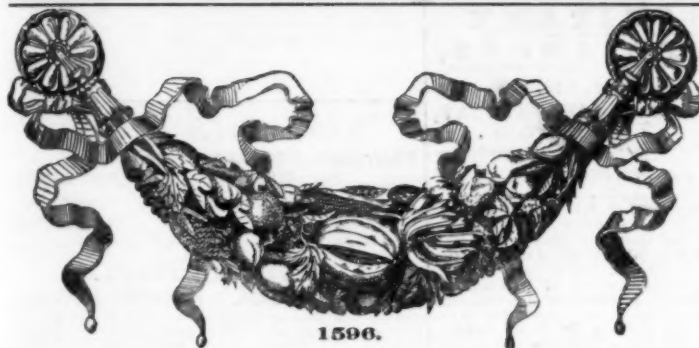
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20, three-sty frame tenement, flat roof, 22' x 48'; owner, F. D. Osgood; builder, F. E. Huntress.

New York, N. Y.—One Hundred and Forty-third St., n. s., 100' e Eighth Ave., 2 five-sty brick tenements, tin roofs; cost, \$26,000; owner, Robert Caterson, Woodlawn, N. Y.; architect, John E. Darragh, 158 West One Hundred and Twenty-fifth St.**St. Louis, Mo.**—Three-sty brick tenement; cost, \$13,000; owner, C. L. Hall; contractor, H. T. Beinke.**WAREHOUSES.****Baltimore, Md.**—U. A. Pollock will build a five-sty brick warehouse, w s Leren Alley, bet. Saratoga and Mulberry Sts.**New York, N. Y.**—Rose St., No. 30, six-sty brick warehouse; owner, Thomas Brennan; architects, Geo. E. Harding & Co.

Centre St., Nos. 247-249, and Elm St., Nos. 169-171, seven-sty brick and stone warehouse; owner, A. Trenkmann; architects, De Lemos & Cordes.

Philadelphia, Pa.—North Ninth St., No. 947, three-sty storage warehouse; owner, Joseph Hoovey, Carpenter St., Germantown.**Providence, R. I.**—Mathewson and Martha Sts., carriage warehouse; owner, E. Allen; builder, W. A. Warner.**St. Louis, Mo.**—Four-sty brick warehouse; cost, \$20,000; owner, G. G. Gibson; sub-let.**MISCELLANEOUS.****Albany, N. Y.**—Architect E. A. P. Newcomb of Boston was the successful competitor for the bas-relief decoration for the high altar of the new cathedral; the decoration is to be 12 feet long and three feet wide, and the models have been sent to the bishop.**Boston, Mass.**—Sudbury St., Nos. 39-49, cor. Bowker St., Ward 7, six-sty brick mercantile building, flat roof, 60' x 77.3'; owners, Boston Real Estate Trust Co.; builders, McNeil Bros.

Warren St., rear, Ward 21, one-sty brick hall, hip roof, 50' x 57'; owner and builder, J. C. Dimock. Richards St., cor. Granite St., Ward 13, three-sty brick machine-shop, flat roof, 50' x 110'; owners, Moore & Wymann.

COMPETITION.**PRIZE COMPETITION.**—The Cosmopolitan Magazine offers \$600 in three prizes of \$200 each for the best designs for Public Baths, Public Laundries, Tenement-house Cooperative Kitchens, made in conformity with a programme and specifications, full particulars of which will be sent on application.

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PROPOSALS.

February 1, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 24th day of February, 1890, for all the labor and materials required to fix in place complete the low-temperature, hot-water heating and ventilating apparatus for the United States Post-Office, etc., building at Springfield, Mass., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$200. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. 738

January 28, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 1st day of March, 1890, for all the labor and material required to fix in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus required for the United States Post-Office, Court-House, etc., building at Binghamton, N. Y., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$200. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this

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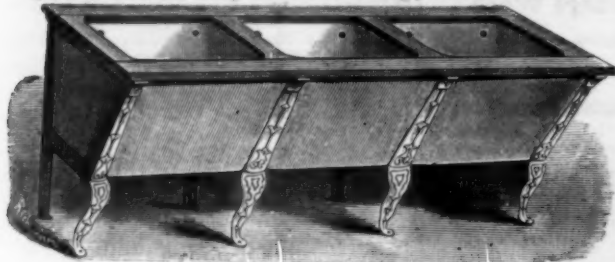
PROPOSALS.

Invitation. JAS. H. WINDRIM, Supervising Architect. 738

January 30, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 24th day of February, 1890, for certain additional work, comprising vestibule at mailing platform and fitting up attic over court-room of the United States Post-Office, Court-House, etc., building at Auburn, N. Y., in accordance with the drawings and specification, copies of which may be had on application to this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$50. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. 738

January 24, 1890. Sealed proposals will be received from decorative painters at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 24th day of February, 1890, for all the labor and materials required to paint the interior walls, ceilings, etc., of the United States Court-House and Post-Office building at Des Moines, Iowa, in accordance with this specification, copies of which, with the general plans of the

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building, may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$200. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. 737

BOILERS, ETC.

[At Detroit, Mich.]

OFFICE OF LIGHT-HOUSE ENGINEER,
NINTH AND ELEVENTH DISTRICTS,
DETROIT, MICH., January 18, 1890.

Sealed proposals will be received at this office until 4 o'clock P. M., on Saturday, the 15th day of February, 1890, for furnishing the boilers, machinery, etc., for fourteen steam fog-signals, in sets of two, delivered at the Light-house Depot at Detroit, Mich.

Plans, specifications, forms of proposals and other information may be obtained on application to the undersigned.

The right is reserved to reject any or all bids and to waive any defects.

WILLIAM LUDLOW,
Light-house Engineer.

737

HARDWARE.SIGNAL OFFICE, WAR DEPARTMENT,
WASHINGTON CITY, January 15, 1890.

Sealed proposals, in duplicate, subject to the usual conditions, will be received at the office of the Chief Signal Officer, in this city, until 11 o'clock A. M. on Saturday, the 15th day of February, 1890, for furnishing the Signal Service the hardware supplies for 50 tool chests.

Persons desiring to bid can, upon application in writing, obtain from this office blank forms and instructions for bidding and full information in accordance with this letter.

A. W. GREELY,
Chief Signal Officer.

737

LIGHT-TOWER.

[At Diamond Shoal, N. C.]

OFFICE OF THE LIGHT-HOUSE BOARD,
WASHINGTON, D. C., January 9, 1890.

Proposals will be received at this office until 12 o'clock, noon, of Tuesday, the 1st day of July, 1890, for the design, the specifications, the complete construction and equipment and the temporary maintenance of a light-tower on Diamond Shoal, off Cape Hatteras, N. C.

By an act of Congress, the total cost of the light station shall not exceed the sum of \$500,000.

Specifications embodying the requirements of the structure, forms of proposals 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.

DAVID B. HARMONY,
Rear Admiral, U. S. Navy, Chairman.

737

HEATING.

[At Hoboken, N. J.]

Sealed proposals will be received at the office of the City Clerk, City-hall, Hoboken, N. J., until 7.30 P. M. on the 11th day of February, 1890, for all the labor and materials required for the erection and completion of a system of indirect heating, with ventilation, of the proposed new three-story school-building to be built in said city, in accordance with the plans and specifications prepared by Messrs. Beyer & McCann, architects.

Plans and specifications can be seen at the City-hall, and all necessary information can be obtained from the architects, corner of Hudson Place and River Street, Hoboken, N. J. 737

TO IRON MANUFACTURERS. Office of the Light-house Engineer, First and Second Districts, Boston, Mass., January 27, 1890. Proposals will be

PROPOSALS.

received at this office until 12 o'clock noon of Tuesday, the 18th day of February, 1890, for furnishing the materials and labor of all kinds necessary for the completion and delivery of the metal-work of the Goose Rocks Light-house, Fox Island Thoroughfare, Maine. 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. W. S. STANTON, Major of Engineers U. S. Army, Light-house Engineer, First and Second Districts. 737

January 28, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 24th day of February, 1890, for furnishing and putting in place complete one hydraulic direct-acting mail-lift, including pump, tanks, piping, platform, screen-work, etc., in the United States Post-Office, Court-House, etc., building at Augusta, Me., in accordance with the drawings and specification, copies of which may be had upon application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. 737

January 21, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 18th day of February, 1890, for the labor and material required to complete the iron stairways and interior finish of the United States Custom-house, etc., building at Galveston, Tex., in accordance with the specification and drawings, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$300. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect. 737

January 23, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 28th day of February, 1890, for all the labor and materials required to complete the approaches to the United States Post-office, Court-house, etc., building at Wichita, Kan., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect. 737

January 22, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 28th day of February, 1890, for all the labor and materials required to re-cover with 16-ounce tinned copper the roof of the United States Custom-House and Post-Office building at New Orleans, La., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$500. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. 737

January 23, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 3d day of March, 1890, for all the labor and materials required in the erection and completion of the United States Court-House, Post-Office and Custom-House building at Vicksburg, Miss. (approaches, heating apparatus and plumbing not included), in accordance with the drawings and speci-

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TO ENGINEERS AND CONTRACTORS. Office of the Light-House Board, Washington, D. C., January 9, 1890. Proposals will be received at this office until 12 o'clock, noon, of Tuesday, the 1st day of July, 1890, for the design, the specifications, the complete construction and equipment, and the temporary maintenance of a light-tower on Diamond Shoal, off Cape Hatteras, North Carolina. By an act of Congress, the total cost of the light-station shall not exceed the sum of \$500,000. Specifications embodying the requirements of the structure, 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. DAVID B. HARMONY, Rear-Admiral, U. S. N., Chairman. 737



Plate 843—G. The "SIMPLEX" Recess Basin and Waste. (Patented.)

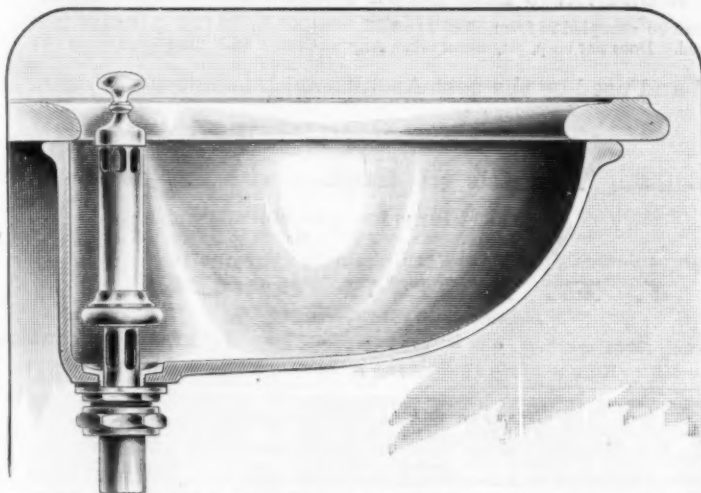


Plate 844—G. Cross Section of "Simplex" Recess Basin, showing Waste raised as when water is being let out of Basin.

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[See Alphabetical Index on page VII for Pagination.]

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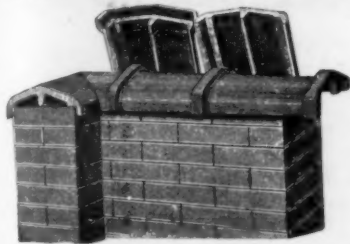
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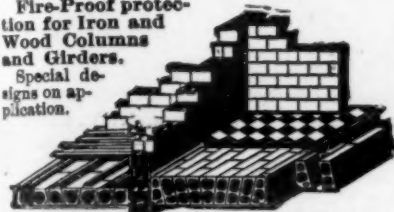
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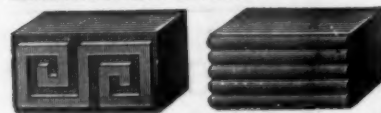
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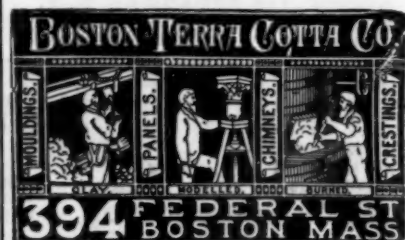
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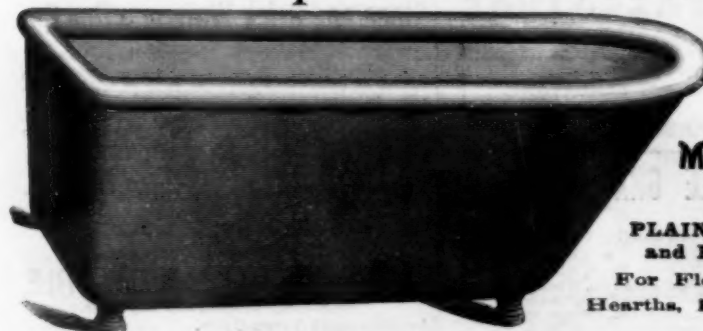
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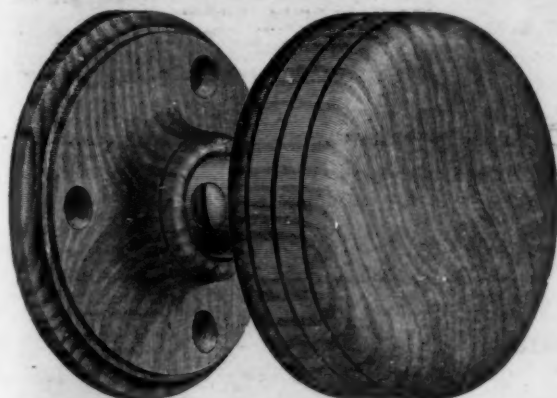
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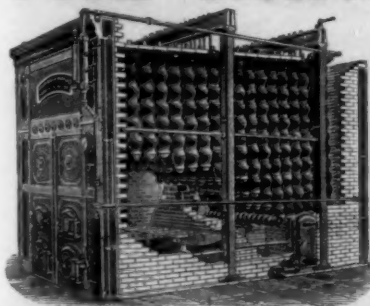
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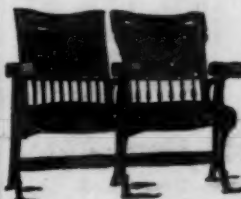
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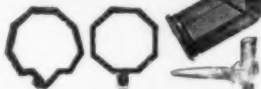
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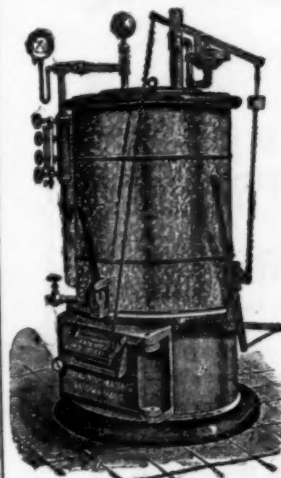
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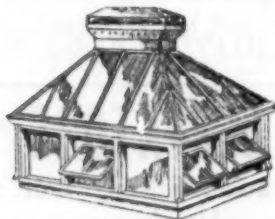
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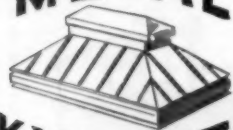
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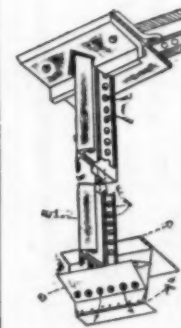
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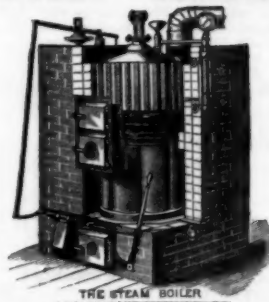
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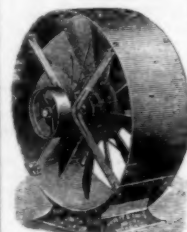
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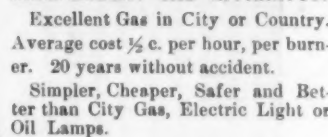
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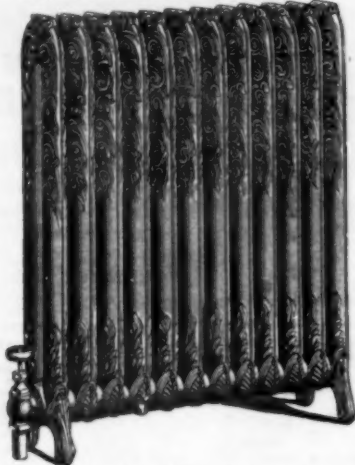
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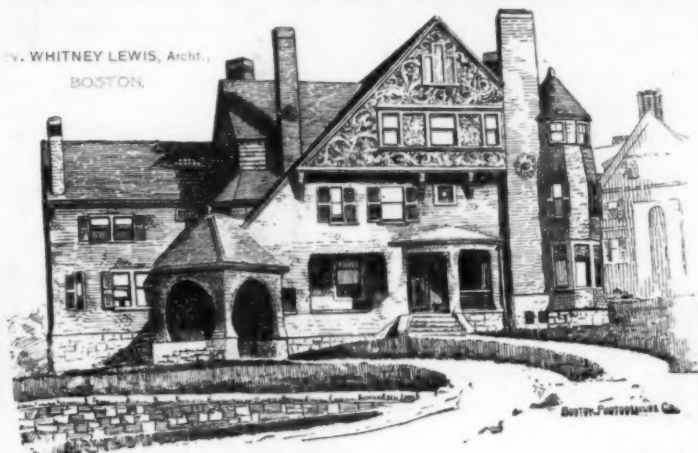
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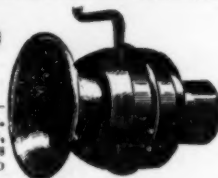


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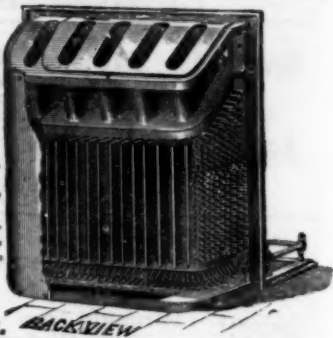
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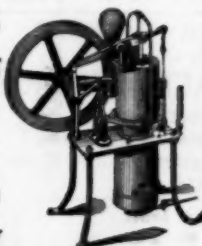
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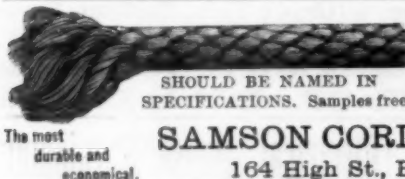


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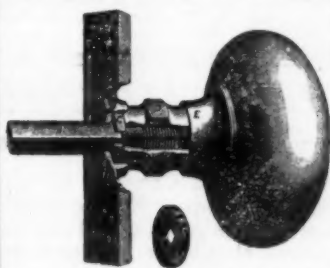
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BUILDING INTELLIGENCE.

(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, espe-
cially from the smaller and outlying towns.]

ALTERATIONS.

Camden, N. J. — Broadway, No. 1722, alteration and
building of a two-st'y frame dwell.; owners, John
Dobbin & Co.

Federal St., No. 549, three-st'y brick addition
to dwell.; owner, K. R. Foubert, 15 North Front St.
Chestnut St., No. 1225, alterations to frame dwell.;
owner, John Woythorwick, at place.

Islip, L. I. — C. T. Harbeck, rebuilding dwell., one-
st'y addition, etc.; architect, H. Edwards-Flecken,
New York.

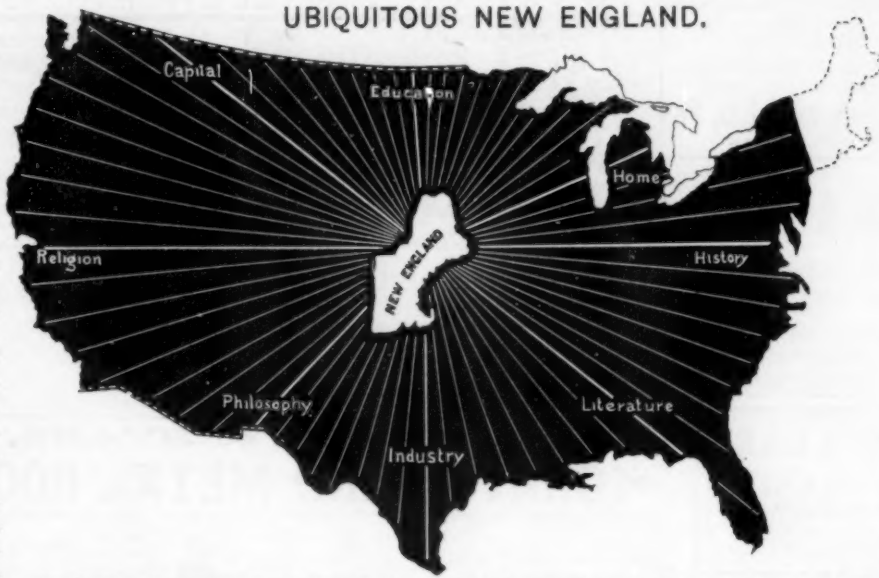
Yonkers, N. Y. — Col. Beecher, interior alterations
and decorations to dwell.; architect, H. Edwards-
Flecken, New York.

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APARTMENT-HOUSES.

Boston, Mass.—Belvidere St., near Falmouth St., Ward 11, four-sty brick apartments, flat roof, 50' x 98'; owner, W. T. White; builder, G. W. Adams.
New York, N. Y.—First Ave., w s, 25' s Seventy-eighth St., five-sty brick flat, tin roof; cost, \$18,000; owner, Elias Jacobs, 59 Avenue A; architect, William Graul, 215 Bowery.
Park Ave., s s, from Seventy-five to Seventy-sixth Sts., 7 five-sty brick flats, tin roofs; cost, \$182,000; owner, L. Weiher, Sr., New Rochelle, N. Y.; architect, L. Weiher, Jr., New Rochelle, N. Y.
Ninth Ave., w s, 25' s n of Seventy-fifth St., five-sty brick flat, tin roof; cost, \$20,000; owner, James W. Taylor, 45 West Ninetieth St.; architect, George A. Bagge, 351 West Fifty-third St.
One Hundred and Fortieth St., n s, 100' w Willis Ave., 2 five-sty brick flats, tin roofs; cost, \$36,000; owner, Mary E. Barry, 305 East One Hundred and

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Twenty-second St.; architect, Andrew Spence, 163 East One Hundred and Twenty-fifth St.

HOTELS.

Detroit, Mich.—A. C. Varney & Co., three-sty brick hotel for Daniel Scotten, 28-34 Third St.; cost, \$11,000.

HOUSES.

Averne, L. I.—Cottage; architect, H. Edwards-Ficken, New York.
Boston, Mass.—West St., near Orange St., Ward 23, frame dwell., 29' x 31'; owner, Mrs. J. Evans; builder, G. J. Bennineck.
Folsom St., near Woodward St., Ward 20, 2 three-sty frame dwells., flat roofs, 21.6' x 45'; owner and builder, G. A. Clifford.
Bailey St., near Washington St., Ward 23, frame dwell., 21' x 47'; owner, Josephine P. Haynes; builder, J. F. Haynes.
Prior Pl., near Richfield St., Ward 24, frame dwell., 23' x 30'; owner and builder, G. L. Davidson.
Neposnet Ave., near Hyde Park Ave., Ward 23, three-sty frame dwell., flat roof, 30' x 40'; owner and builder, James Carson.
Ashmont St., near Adams St., Ward 24, two-sty frame dwell., hip roof, 32.6' x 42.4'; owners, W. E. Ligg and F. P. Jacques; builder, Fred Gutraw.
Call St., near Child St., Ward 23, two-sty frame dwell., flat roof, 22' x 39'; owner and builder, T. Minton.
Border St., No. 120, Ward 2, two-sty frame dwell., flat roof, 20' x 40'; owner, A. Bell; builder, A. McLaren.
Byron St., near Pope St., Ward 1, 3 two-sty frame dwells., flat roofs, 21' x 44'; owner, John F. Slattery; builder, S. E. Sprague.
Byron St., near Saratoga St., Ward 1, frame dwell., 30' x 28'; owner, G. W. Stoddard; builder, S. E. Sprague.
East Third St., Nos. 790-792, Ward 14, two frame dwells., flat roofs, 25.6' x 48'; owner, J. B. McNutt; builder, W. T. Eaton.
Walden St., cor. Round Hill St., Ward 22, frame dwell., flat roof, 25.6' x 25.6'; owners, Workingmen's Building Association; builder, G. W. Pope.
Gay Head St., No. 20, Ward 22, frame dwell., 25.6' x 39.6'; Sunnyside Terrace, No. 23, Westerly St., No. 8, and Round Hill St., from No. 1 to No. 15; owners,

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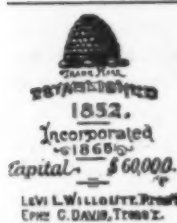
Workingmen's Building Association; builder, G. W. Pope.
Paris St., Nos. 138-140, Ward 1, 2 three-sty frame dwells., flat roofs, 21.6' x 44'; owner, T. A. McLaughlin; builders, Hatt & Rogers.
Market St., rear, near Beacon St., Ward 25, two frame dwells., 27' x 37'; owner, Ida P. Millner.
Everett St., cor. Blaine Ave., Ward 25, three-sty frame dwell. and store, flat roof, 28.6' x 40'; owner and builder, S. Hano.
Terrace Ave., near Sheridan Ave., Ward 23, three-sty frame dwell., 23' x 32'; owner and builder, Walter Curley.
Milton Ave., near Lauriat Ave., Ward 24, two-sty frame dwell. and store, hip roof, 28' x 61'; owner and builder, E. C. Benson.
Bowdoin Ave., nearly opp. Bullard St., Ward 24, frame dwell., 26.6' x 34'; owner, A. Hall; builder, A. Ford.
Clark St., ext. South Hamilton St., Ward 24, frame dwell., 23' x 43'; owner, M. Dorsey; builder, John Early.
Mattapan St., near Blue Hill Ave., Ward 24, frame dwell., 25' x 32.6'; owner, Ellen M. Green; builders, A. Crocker & Co.
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frame dwell., flat roof, 24' x 40'; owner, Christian Spiegel; builder, A. Sonntag.
Maywood St., No. 43, Ward 21, frame dwell., 23.6' x 37.6'; owner, E. E. Power; builder, J. P. Power.
Washington St., near Dudley Ave., Ward 23, two-sty frame dwell., hip roof, 29' x 34'; owner, Sophia E. Wills; builder, R. J. Wills.
Crawford St., No. 73, Ward 21, frame dwell., 28' x 49'; owner and builder, A. D. Gould.
Athens St., Nos. 322-324, Ward 13, 2 three-sty frame dwell., flat roofs, 26.6' x 32'; owners, E. Hermet and H. Banks; builder, W. T. Eaton.
Idaho St., off Brine St., No. 127, Ward 24, three frame dwell., 27' x 49'; owner, F. H. McDonald; builder, F. M. Severance.
Knoll St., near Watter St., Ward 23, frame dwell., 22' x 35'; owner, Catherine Landrey; builder, J. L. Landrey.
Norwood St., near Tolman St., Ward 24, frame dwell., 23' x 30'; owner, J. H. Murray; builder, W. J. Hatch.
Hillside St., near Parker Hill Ave., Ward 22, three-sty frame dwell., flat roof, 24' x 37'; owner, J. Brennan; builder, W. McDonald.
Brook Pl., near Dudley St., Ward 26, three-sty frame dwell., flat roof, 24' x 32'; owner, Mark Boyd; builder, H. N. Wyman.
Crawford St., off Burgess St., near Dudley St., Ward 20, 4 three-sty frame dwell., flat roofs, 18' x 49' and 26.6' x 49'; owner and builder, H. H. Fernald.
Beale St., near Dorchester Ave., Ward 24, three-sty frame dwell., flat roof, 25.2' x 53.8'; owner and builder, H. J. Rice.
Dorchester Ave., No. 1112, Ward 24, three-sty frame dwell. and store, flat roof, 22' x 52'; owner and builder, W. J. Robinson.
Nonquit St., near Dudley St., Ward 20, 3 three-sty frame dwell., flat roofs, 24' x 50'; owners, J. M. & A. G. Frost; builder, C. Boultonhouse.
Unnamed St., cor. Bay State Rd., Ward 22, four-sty brick dwell., pitch roof, 30' x 70'; owner, Arthur Little; builder, Jas Smith.
Brick Church, N. J.—A. Ward Brigham, stone and frame dwell.; architect, H. Edwards-Ficken, New York.
Brookline, Mass.—Harrison St., frame dwell., 25' x 50'; cost, abt. \$5,200; owner, Chas. Crosby; builder, L. F. Lyon; architect, J. Merrill Brown, Boston.
Camden, N. J.—State St., s e cor. Sixth St., 2 three-sty brick dwell.; owner, Wilson Ernst.

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Pine St., two-sty brick dwell.; owner, S. W. Prior, 469 Trenton Ave.
Central Ave. and Seventh St., three-sty brick dwell.; owner, John Matthews.
Mechanic St., w Norris St., 5 two-sty brick dwell.; owner, John F. Betz.
Eighth St., s e cor. Woodland Ave., 3 two-sty frame dwell.; owner, T. F. Adams, Eighth St., ab. Woodland Ave.
Liberty St. and Hyde Park, 10 two-sty brick dwell.; owner, Robert Kaighn, Front and State Sts.
Line St., Nos. 335-346, 2 two-sty brick dwell.; owner, George F. Matthews, 306 South Third St.
Chicago, Ill.—Aug. Sternberg, two-sty dwell.; Green and Sixty-eighth Sts.; cost, \$1,500.
C. Hendricke, cottage, 1453 Richmond Ave.; cost, \$1,500.
Geo. A. Severance, cottage, 3445 Marshfield Ave.; cost, \$1,100.
Mary Dippold, cottage, McChesney Ave. and Sixty-third St.; cost, \$1,000.
Arthur Francis, two-sty dwell., 6450 Myrtle Ave.; cost, \$2,200.
Peter Benghins, cottage, 6528 Morgan St.; cost, \$1,200.
C. W. Sandell, two-sty dwell., Wright and Fifty-sixth Sts.; cost, \$1,000.
Chas. Rehn, two-sty dwell., 230 Belmont St.; cost, \$1,200.
Edward Bloom, 3 two-sty dwell., Honore St., near Sixty-seventh St.; cost, \$6,000.
J. Vandroska, cottage, 1092 Nineteenth St.; cost, \$1,300.
H. O. Cook, one-and-one-half-sty dwell., Bosworth and Roscoe Sts.; cost, \$1,800.
P. Werhoben, cottage, Thirty-second and Sackett Sts.; cost, \$1,100.
Neils Johnson, cottage, 876 Norman St.; cost, \$1,000.
Geo. Oliner, two-sty dwell., 1424 Monroe St.; cost, \$3,100.
F. Foster, dwell., Ledyard St., near Iowa St.; cost, \$1,000.
Cincinnati, O.—F. & A. Weber, 2 two-and-one-half-sty brick and stone dwell., Chase and Lakeman Sts.; cost, \$2,700; architects, F. & A. Weber.
Mrs. M. Darumont, four-sty brick and stone dwell., Wesley Ave.; cost, \$4,700; architects, Reig & Marty.
W. C. Biles, 2 two-and-one-half-sty brick and stone dwell., Euclid Ave.; cost, \$8,800; architect, W. W. Franklin.
Henry Watson, 2 two-and-one-half-sty brick and stone dwell., Colerain Ave.; cost, \$3,000; architect, Henry Watson.
Mrs. Mary J. Leeds, two-and-one-half-sty brick

BUILDING INTELLIGENCE.

and stone dwell., Crawfish Rd.; cost, \$2,500; architect, J. J. Leeds.
A. Zipperlen, 2 two-and-one-half-sty brick and stone dwell., Eden Ave.; cost, \$2,500; architect, Geo. Werner.
Henry Olt, double three-sty tenement, Molitor St.; cost, \$3,278; architect, Chas. Walz.
Detroit, Mich.—A. C. Varney & Co., brick dwell., 279 Pittman Ave.; cost, \$4,500.
Chas. Flack, two-sty frame dwell., 379 Champlain St.; cost, \$2,500.
M. O. Secor, four frame dwell., 1371, 1377, 1395 Twelfth St.; cost, \$6,000.
Fall River, Mass.—Highland Ave. frame dwell., 40' x 70'; cost, \$12,000; owner, Simeon B. Chase; architect, J. Merrill Brown, Boston.
North part of the city, frame dwell., 45' x 56'; cost, abt. \$7,000; owner, Charles S. Waring; contract to be let; architect, J. Merrill Brown, Boston.
Frame dwell., 45' x 50'; cost, abt. \$7,500; owner, Frank H. Dwelly; builder, Joseph M. Darling; architect, J. Merrill Brown, Boston.
Holyoke, Mass.—Wm. Shipley, double dwell., Tyler St.; cost, \$3,200; contractors, Hervieux & Russell.
Malden, Mass.—Bertram St. and Glenwood Ave., frame dwell., 28' x 40'; cost, abt. \$6,000; owner, Geo. S. Mansfield; builder, A. Grant; architect, Wilfred A. Norris, Boston.
Newton Centre, Mass.—Frame dwell., 38' x 42'; cost, abt. \$5,300; owner, John O. Smith; builder, Mr. Geary; architect, J. Merrill Brown, Boston.
New York, N. Y.—Eighty-seventh St., n s, 125' e Tenth Ave., 5 three-sty brick dwell., tin roofs; cost, \$60,000; owners, Wilson and Tiebhorn, 1153 Park Ave.; architect, G. A. Schellinger, 128 Broadway.
Ninety-second St., n s, 113' 4" w Madison Ave., 4 four-sty brick dwell., tin roofs; cost, \$80,000; owner, Walter Reid, 1472 Third Ave.; architects, A. B. Ogden & Son, 1031 Madison Ave.
Eighty-sixth St., n s, 200' e Riverside Drive, 5 four-sty brick dwell., mansard, terra-cotta, tile and tin roofs; cost, \$100,000; owner, W. E. D. Stokes, 269 West Seventy-third St.; architect, H. H. Seyfert, Eighty-sixth St. and West End Ave.
Eighty-sixth St., s s, 200' e Riverside Drive, 5 four-sty brick dwell., mansard, terra-cotta, tile and tin roofs; cost, \$100,000; owner, W. E. D. Stokes, 269 West Seventy-third St.; architect, H. P. Seyfert, Eighty-sixth St. and West End Ave.
G. L. Morse, dwell.; architect, H. Edwards-Ficken.
Mrs. Sydney E. Morse, dwell.; architect, H. Edwards-Ficken.
Oakdale, E. I.—Brick and stone dwell., 200' x 300'; architect, H. Edwards-Ficken, New York.
Philadelphia, Pa.—Ludlow St., s s w Fifty-fifth St., 2 two-sty dwell.; owner, Geo. Wilkinson, 5436 Chestnut St.

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We wish to caution architects and owners against allowing the least admixture of any petroleum product, or in fact of adulterant of any kind, with our stains, and we believe that there have been several cases of such admixture near Chicago where the fraud has escaped detection.

We shall be greatly obliged to our friends if they will notify us of any adulteration of our stains.

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Architects and builders are fully aware of these facts and when not interfered with by a misguided owner will use none but the best tin plates. Such plates have long been placed on the American market and their excellence sustained and use advocated by Messrs. Merchant & Co., an old and reliable metal firm of Philadelphia. Their tin plates are rapidly being employed on roofs in Dubuque and the northwest. Such tinnars as are high minded and above the meanness of injuring their reputation by gaining a temporary advantage use these plates and even guarantee their work for a period of ten years.

A writer recently in a Pittsburgh paper unsolicited and without the knowledge of Messrs. Merchant & Co., thus bears testimony to the superiority of the tin brands of these gentlemen:

It was the house of Merchant & Co., of Philadelphia, that instituted the practice of guaranteeing every box of plates, then stamping the brand and thickness on every sheet, and excluding wasters or defective sheets, and, lastly, by branding the net weight of 112 sheets on each box, to satisfy the customer (in this age of light-weight plates) that he obtained full weight and just what he paid for. The action of the firm was at once a stab at the dishonesty in tin plates and is being felt from ocean to ocean. The firm now come out with the broad declaration for the benefit of those that want the very best roofing plates, that what they assert and claim that they are prepared to prove, that there are no other brands of roofing tin offered in the market to-day, by any firm, under the four different guarantees given by them, and they challenge public contradiction of the statement.

Their brands are "Gilbertson's Old Method," "Merchant's Roofing," and "Camaret." The writer has given this matter a great deal of attention in the past few years, and he has no hesitancy in stating in these columns, and without favor to this house or partiality to them in any way, that he does not for a single moment question the veracity of these statements, but asserts that he knows them to be the truth, the whole truth and nothing but the truth.—The Dubuque Trade Journal, Jan. 1890.

BUILDING INTELLIGENCE.

York St., n s; Cumberland St., s s, w Sixteenth St., 8 three-sty dwell.; owner, John Loughran, 254 North Eighth St.
Wellington St., e and w s, n York St., 62 two-sty dwell.; owner, John Loughran, 254 North Eighth St.
South Tenth St., Nos. 1606-1608, 2 three-sty dwell.; owner, Owen Morris, 719 McKean St.
Emily St., w Second St., 24 two-sty dwell.; owner, J. J. Cassidy, Moyamensing Ave. and McKean St.
Fifteenth St., e s, s Clearfield St., 7 two-sty dwell.; owners, Hudson & Dillon, 1211 Sansom St.
Fox St., s s, w Gaul St., 20 two-sty dwell.; owner, Michael O'Rourke, 2738 Frankford Ave.
Sixty-one-and-one-half St., n Race St., two-sty dwell.; owner, B. T. Kelly, 432 Sixty-three-and-one-half St.
Prohibition St., w s, n Jefferson St., two-sty dwell.; owner, S. S. Keely, 350 Green La.
Spring St., e s, n Wood St., three-sty dwell.; owner, S. S. Keely, 350 Green La.
Aspen St., n s, e De Kalb St., 5 three-sty dwell.; owner, C. M. Basch, 504 South Forty-second St.
Brown St., s s, w Thirty-seventh St., 8 three-sty dwell.; owner, C. M. Basch, 504 South Forty-second St.
De Kalb St., e s, s Brown St., 14 two-sty dwell.; owner, C. M. Basch, 504 South Forty-second St.
Thirty-seventh St., w s, s Brown St., 4 two-sty dwell.; owner, C. M. Basch, 504 South Forty-second St.
Eipha St., n s, e Washington St., 8 three-sty dwell.; contractor, Frank Gillett, 4707 Smick St.
Fairhill St., e s, n Rockland St., three-sty dwell.; contractor, Samuel Altemus, Olney.
Plainfield, N. J.—Howard Fleming, brick and frame dwell.; architect, H. Edwards-Picken, New York.
Southampton, L. I.—Judge Howland, New York, dwell. in old Colonial style; architect, H. Edwards-Picken, New York.
Springfield, Mass.—Henry S. Beebe, dwell. and stable, Maple St.
T. J. Foley, cottage, Tyler St.; cost, \$2,800; mason, J. E. Reilly.
Westfield, Mass.—Charles F. Ely, dwell., Broad St.; cost, \$6,000.

OFFICE-BUILDINGS.

Cincinnati, O.—The Neave Building Co., eleven-and-one-half-sty stores and offices, Fourth and Race Sts.; cost, \$150,000; architect, O. E. Elsner.
New York, N. Y.—Eighty-eighth St., s s, 59' 6" e Third Ave., five-sty brick store-building, tin roof; cost, \$30,000; owner, Hugo Gornsh, 325 East Eighty-sixth St.; architects, Kurtzer & Rohl, cor. Third Ave. and Seventh St.

BUILDING INTELLIGENCE.

East Houston St., No. 320, five-sty brick store, tin roof; cost, \$20,000; owner, M. Zimmermann, 318 East Houston St.; architect, J. Kastner, 744 Broadway.
Philadelphia, Pa.—Race St., s w cor. Hillsdale St., one-sty office; owner, John Lucas, 141 North Fourth St.
Chestnut St., s s, e Fourth St., nine-sty office-building; contractors, J. E. & A. L. Pennock, 306 Walnut St.
Twenty-second St., n w cor. Allegheny Ave., one-sty office and boiler-house; owners, Blankley Bros., Twenty-second St. and Allegheny Ave.
Arch St., s s, w Twenty-third St., one-sty office; owner, D. L. Hutchinson, Jr., 324 Seventeenth St.
SCHOOL-HOUSES.
Melrose, Mass.—Lake Ave., cor. Emerson St., brick high-school building, with brownstone trimmings, 50' x 112'; seating-capacity, 250; master's and teachers' rooms, chemical and physical laboratories, school-committee's room and hall, to seat 500; contract to be let; architect, J. Merrill Brown, Boston.
STABLES.
Boston, Mass.—Chapin St., near Mercer St., Ward 15, two-sty frame stable, flat roof, 21' x 22'; owner, W. E. Elliott; builders, Delno & Little.
Walnut Ave., No. 356, rear, Ward 21, one-sty frame stable, pitch roof, 20' x 33'; owner, W. A. Johnson.
Putnam St., near Bremen St., Ward 1, one-sty frame stable, 19' x 31'; owner, Elizabeth Woods; builder, J. E. Woods.
Townsend St., near Humboldt Ave., Ward 21, two-sty frame stable, pitch roof, 22' x 22'; owner and builder, J. C. Woodside.
Camden, N. J.—Sylvan St., No. 728, frame stable; owner, Mary Tede, at place.
Liberty Park, one-sty frame stable; owner, Geo. Cherry, Kalign Ave. and Louis St.
Central Ave., No. 827, rear, frame stable; owner, Jordan Salvatore, at place.
Philadelphia, Pa.—Smedley St., e s, s Erie Ave., two-sty stable; owner, Chas. J. Appleton, 1645 Cor St.
Cedar St., s e cor. Urekin St., two-sty stable; contractor, John H. Locke, cor. Cedar and Huntington Sts.
Canal St., n s, e Front St., two-sty stable; owner, John Mackin, 1063 North Front St.
Melrose St., e s, s Tucker St., two-sty stable; owner, Thos. Waters, Bridge and Jackson Sts.
Seventy-first St., n s, e Elmwood St., two-sty stable; contractor, F. Hollingsworth, 517 North Thirty-fifth St.
South Ninth St., No. 1334, two-sty stable; owner, John Ennis, 719 McKean St.

[Continued on page xviii.]

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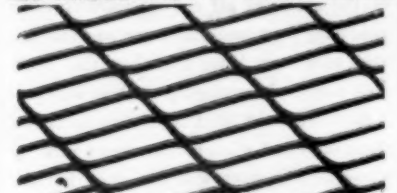
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Main St., rear, No. 4666, two-sty stable; owner,
Frank Walters, on premises.
Seventy-eighth St and Huist Ave., one-sty barn;
owner, Chas. H. Ege, on premises.

STORES.

Boston, Mass. — Dorchester Ave., No. 1108, Ward 24,
three-sty frame store, flat roof, 22' x 52'; owner
and builder, W. J. Robinson.

Bedford St., five-sty brick and stone stores, 20' x
50'; owner, D. W. Cheever; contract to be let;
architects, Lewis & Phipps.

Camden, N. J. — Broadway, No. 1121, one-sty store;
owner, John Lawrenson, at place.

Pine and Ninth Sts., two-sty brick store; owners,
Aitken & Stockham.

Chicago, Ill. — M. Leibner, one-sty store and dwell.,
Eighty-fourth St. and Buffalo Ave.; cost, \$1,500.
J. T. Flynn, two-sty store and dwell., Ashland
Ave., near Forty-seventh St.; cost, \$1,500.

Vincent Dohy, two-sty store and factory, 697-
699 Ladin St.; cost, \$3,000.

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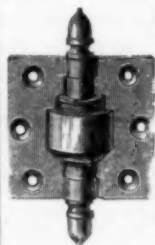


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BUILDING INTELLIGENCE.

Frank Charan, four-sty store and flats, 514 North

Lincoln St.; cost, \$11,000.

Frank Charan, two-sty store and dwell., Halsted

and Sixty-seventh Sts.; cost, \$2,000.

Henry Brinkman, two-sty store and flats, 6855

Halsted St.; cost, \$2,000.

Geo. Landiger, 2 three-sty stores and flats, 578-580

West Thirtieth St.; cost, \$9,000.

Tarnour Bros., two-sty store and dwell., 315 Law-
rence St.; cost, \$1,000.

Geo. Schueberger, four-sty store and flats, 378

West Eighteenth St.; cost, \$16,000.

Dr. Ward, two stores and flats, Evanston and

Ridge Aves.; cost, \$4,000.

Henry B. Durkee, 2 four-sty stores and flats, 931-
933 West Twenty-second St.; cost, \$23,000.

Peter Lorengen, two-sty store and flats, 83

Thomas St.; cost, \$5,000.

N. Herring, three-sty store and flats, 152 Willow

St.; cost, \$4,000.

A. Marsh, two-sty store and cottage, Cortland

and Hancock Sts.; cost, \$1,200.

J. G. Tracy, two-sty store and flats, 295 Spring-
field Ave.; cost, \$6,000.

J. W. Kline, two-sty store and flats, 5522 State

St.; cost, \$4,000.

E. M. Kenney, two-sty store and hall, Armitage

Ave.; cost, \$1,500.

Detroit, Mich. — J. Ward, 3 two-sty frame stores

and dwells., 251-253-255 Baker St.; cost, \$5,000.

Ivo & Knuth, 2 two-sty brick stores and dwells.,

1016-1018 Gratiot Ave.; cost, \$5,000.

C. J. Talbot, two-sty brick store and dwell., 465

Milwaukee Ave.; cost, \$3,500.

Philadelphia, Pa. — Fox St., s. s. w. Gaul St., two-
sty store and dwell.; owner, Michael O'Rourke,

2838 Frankford Ave.

Third St., e. s. n. Duncannon St., two-sty store

and dwell.; contractor, Samuel R. Polk, 4529 North

Front St.

Winchester, Mass. — Main St., frame block of three

stores and apartments, 60' x 60'; owner, Henry C.

Miller; contract to be let; architect, J. Merrill

Brown, Boston.

TENEMENT-HOUSES.

Holyoke, Mass. — A. A. Jones, two tenements, Lin-
coln St.; cost, \$3,500.

BUILDING INTELLIGENCE.

WAREHOUSES.

Baltimore, Md. — The B. Stern estate will build a
four-sty brick warehouse, w. s. Harvard St., bet.
Clay and Saratoga Sts.

David Ambach, five-sty brick warehouse, n. e. cor.
Lombard St. and Box Alley.

New York, N. Y. — Washington Pl., n. e. cor. Mercer

St., six-sty brick, stone and terra-cotta warehouse;

cost, \$153,000; architect, Alfred Zucker.

Greene St., Nos. 197-199, six-sty brick, stone and

iron front warehouse; owner, S. Meinhardt, Savan-
nah, Ga.; architect, A. Zucker.

Greene St., Nos. 200-202, six-sty brick, stone and

iron warehouse; owner, Max Goldfrank; architect,
A. Zucker.

MISCELLANEOUS.

Chicago, Ill. — Anglo-American Provision Co., two-
sty engine and boiler room, Transit St., near
Packer Ave.; cost, \$3,600; one-sty shed, Packer
Ave.; cost, \$1,700.

Mutual Fuel Gas Co., flats and 2 two-sty gas-
houses, South Chicago Ave., near Seventy-third St.;
cost, \$15,000.

Cincinnati, O. — Cincinnati Fire Department, two-
and-one-half-sty engine-house, Chase St.; cost, \$13,-
000; architect, Charles H. Foss.

Denver, Col. — Lawrence St., bet. Fourteenth and
Fifteenth Sts., three-sty brick building, Gustavino
construction; cost, \$60,000; owners, Colorado Tele-
phone Co.; architects, Andrews, Jaques & Rantoul.

Detroit, Mich. — W. Armstrong, three-sty brick
club-house, 1412 Jefferson Ave.; cost, \$8,000.

Holyoke, Mass. — Main St. Methodist Society, brick
and brownstone building, Appleton and Elm Sts.;
cost, \$40,000; architect, G. B. P. Alderman.

New York, N. Y. — Avenue A, Fifty-fourth to Fifty-
fifth Sts., brewery; cost, \$500,000; owners, Con-
sumers' Brewing Co. of New York; architect, O. C.
Wolf, Philadelphia.

Northampton, Mass. — E. H. R. Lyman, brick and
stone Academy of Music, 60' back from Main St.

Philadelphia, Pa. — Washington Ave., s. s. w. Twenty-
fourth St., two-sty machine-shop; contractors,
W. Wharton, Jr., & Co., 330 South Twentieth St.

Abigail St., n. s. e. Coral St., one-sty milk-house;

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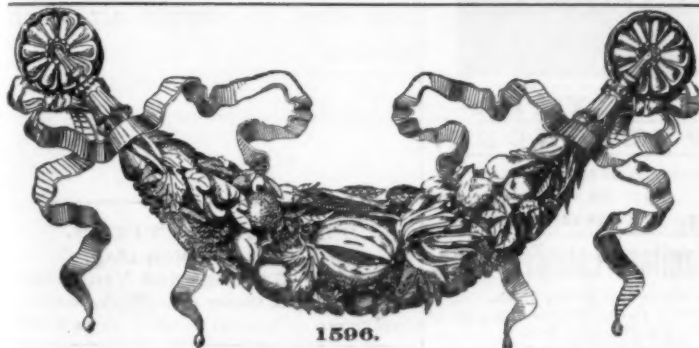
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contractors, Arthur & Husbands, 2373 Aramingo St.
Smedley St., No. 3618, one-st'y smithshop; contractors, John Kramer & Son, 1314 North Front St.
Turner St., w s, a Butler St., two-st'y shop; owner, Matilda Allen, 3817 North Fifth St.
South Forty-sixth St., No. 611, two-st'y workshop; contractor, Wm. Johnston, 4214 Parrish St.
Twenty-second Ave., n e cor. Allegheny Ave., one-st'y foundry; contractor, H. E. Vaughan, Lansdowne, Delaware Co., Pa.
Chestnut St., No. 3710, one-st'y back building; owner, R. M. Hunter, 3710 Chestnut St.
Erie Ave., s s, adjoining Pennsylvania R. R. tracks, frame carshop; owners, R. R. Co., 227 South Fourth St.
Ridge Ave. and Bridge St., one-st'y wheelright shop; contractor, George W. Stockton.
Tenth St., w s, a Ontario St., one-st'y storehouse; owner, John Hassenmeyer, 2350 North Tenth St.
Cantrill St., No. 707, one-st'y bottling-house; contractor, John Innis, 719 McKean St.
Melrose St., e s, s Tucker St., two-st'y bottling-house and two-st'y kitchen; contractor, Thomas Waters, Bridge and Jackson Sts.
Edgemont St., No. 2824, one-st'y kitchen; owner, Thos. Burns, on premises.
Pa. R. R. Trunk, near Thirty-third St., one-st'y scale-house; owners, P. R. R. Co., Thirty-second and Market Sts.

PROPOSALS.

LIGHT-TOWER. [At Diamond Shoal, N. C.]
OFFICE OF THE LIGHT-HOUSE BOARD.
WASHINGTON, D. C., January 9, 1890.
Proposals will be received at this office until 12 o'clock, noon, of Tuesday, the 1st day of July, 1890, for the design, the specifications, the complete construction and equipment and the temporary maintenance of a light-tower on Diamond Shoal, off Cape Hatteras, N. C.
By an act of Congress, the total cost of the light station shall not exceed the sum of \$500,000.
Specifications embodying the requirements of the structure, forms of proposals 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.
DAVID R. HARMONY,
Rear Admiral, U. S. Navy, Chairman.

PROPOSALS.

OFFICERS' QUARTERS.
[At Fort McPherson, Ga.]
ATLANTA, GA., January 23, 1890.
Sealed proposals, in triplicate, subject to usual conditions, will be received here until 11 o'clock A. M., central time, Monday, February 24, 1890, and then opened, for the completion of one set of commanding officers' quarters; one set of field officers' quarters; one double set of company officers' quarters; one double barracks; one administration building at Fort McPherson, Ga.
The United States reserves the right to reject any or all bids or parts thereof.
Full information can be obtained and plans and specifications seen at this office.
Envelopes containing proposals should be marked "Proposals for Completion of Public Buildings," and addressed to
J. W. JACOBS,
Captain and A. Q. M., U. S. Army,
738

CEMENT.

[At Boston, Mass.]
OFFICE OF U. S. LIGHT-HOUSE ENGINEER,
FIRST AND SECOND DISTRICTS,
POST-OFFICE BUILDING, ROOM 142, P. O. BOX 168,
BOSTON, MASS., February 10, 1890.
Proposals for furnishing and delivering six hundred (600) barrels of Portland cement will be received at this office until 12 o'clock, noon, Friday, February 23, 1890.
Specifications and blank forms of proposal will be furnished on application at this office, or by letter addressed to P. O. Box 168, Boston, Mass.
The right is reserved to reject any or all bids and to waive any defects.
W. S. STANTON,
Major of Engineers, U. S. A., Engineer First and Second Light-House Districts.
739

FURNITURE.

[At Ottumwa, Ia.]
TREASURY DEPARTMENT.
WASHINGTON, D. C., February 4, 1890.
Sealed proposals will be received at this Department until 2 o'clock P. M. Wednesday, February 19, 1890, for supplying and placing in position special furniture for the United States Court-House and Post-Office, Ottumwa, Ia.

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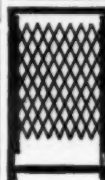
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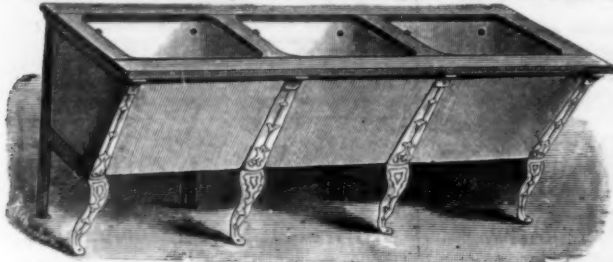
PROPOSALS.

Drawings, specifications and blank forms of proposal can be had upon application.
The Department reserves the right to reject any and all bids and to waive defects.
Partial bids will not be considered.
Proposals should be addressed to the Secretary of the Treasury, and endorsed "Proposals for Special Furniture, Court-House and Post-Office, Ottumwa, Ia."
GEO. S. BATCHELLER,
Acting Secretary.
738

LUMBER, ETC.

[At Newport, R. I.]
NEWPORT, R. I., February 1, 1890.
Sealed proposals, indorsed "Proposals for Lumber, etc., for Naval Training Station, to be opened February 25, 1890," will be received at the Bureau of Provisions and Clothing, Navy Department, Washington, D. C., until 12 o'clock, noon, February 25, 1890, and publicly opened immediately thereafter, to furnish at the United States Naval Training Station, Newport, R. I., a quantity of lumber, shingles and nails.
Blank forms of proposals will be furnished upon application to the Bureau or the commanding officer of the Training Station.
The articles must in all cases conform to the naval standard and pass the usual inspection.
Tie-bids decided by lot.

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Carefully Handled.
OAKLEY & KEATING, 40 Courtlandt St., NEW YORK.**PROPOSALS.**The Department reserves the right to waive defects
and to reject any or all bids not deemed advantageous
to the Government.JAMES FULTON,
Paymaster-General, U. S. Navy.**DIKE.**[Near Albany, N. Y.]
UNITED STATES ENGINEER OFFICE,
ROOM 62, ARMY BUILDING,
NEW YORK, N. Y., February 3, 1890.Sealed proposals, in triplicate, will be received at
this office until 12 o'clock, noon, March 3, 1890,
for the construction of 2,950 feet, more or less, of a
timber and stone dike, in the Hudson River at Mull's
Flat, twelve miles below Albany, N. Y.The attention of bidders is invited to Act of Congress
approved February 26, 1885, and February 23,
1887, Vol. 23, page 332 and Vol. 24, page 414, Statutes at
Large.For specifications, blank forms and all information
apply to the undersigned.G. L. GILLESPIE,
Lieutenant-Colonel of Engineers.**FURNITURE.**TREASURY DEPARTMENT,
February 4, 1890.Sealed proposals will be received at this Department
until 2 o'clock P. M., Tuesday, March 4,
1890, for manufacturing, delivering and placing in
position in United States buildings east of the Rocky
Mountains, from time to time as required, certain
articles of furniture.Drawings and specifications and blank form of proposal
can be obtained upon application to this office.The Department reserves the right to reject any
and all bids, and to waive defects.Proposals should be addressed to the Secretary of
the Treasury and indorsed "Proposals for Furniture
for Buildings East of the Rocky Mountains."GEORGE S. BATCHELLER,
Acting Secretary.**LIGHTING APPARATUS.**[Near Newport, Ky.]
QUARTERMASTER'S OFFICE,
HIGHLANDS, KY., February 1, 1890.Sealed proposals, in triplicate, subject to the usual
conditions, will be received at the office of the
Assistant Quartermaster, U. S. Army, Newport, Ky.,
until 11 o'clock A. M., Monday, March 3, 1890,
and then opened, for furnishing and setting up complete
about twelve gasoline lighting-machines for
lighting the buildings at the new post, near Newport,
Ky.Preference given to articles of domestic manufacture,
conditions of quality and price (including in the
price of foreign manufacture the duty thereon) being
equal.**PROPOSALS.**The United States reserves the right to reject any or
all proposals.Blank proposals, specifications and instructions will
be furnished upon application at this office.Envelopes containing proposals should be marked
"Proposals for Lighting Apparatus" and addressed
toA. H. YOUNG,
Captain and Assistant Quartermaster, U. S. Army.February 7, 1890. The time for receiving and opening
the proposals for the labor and materials required
for the stone and brick masonry of the superstructure
of the United States Custom-house, Post-office, etc.,
building at Port Townsend, Washington, is hereby
extended until 2 o'clock P. M., on the 13th day of
March, 1890. JAMES H. WINDRIM, Supervising
Architect.February 7, 1890. Sealed proposals will be received
at the office of the Supervising Architect, Treasury
Department, Washington, D. C., until 2 o'clock P. M.,
on the 4th day of March, 1890, for furnishing and
putting in place complete one hydraulic passenger
elevator for the United States Post-office, etc., building
at St. Joseph, Mo., in accordance with the specification
and drawings, copies of which may be had on
application at this office or the office of the Superintendent.
Each bid must be accompanied by a certified
check for \$100. The Department will reject all bids
received after the time fixed for opening the same;
also bids which do not comply strictly with all the
requirements of this invitation. JAMES H. WINDRIM,
Supervising Architect.February 5, 1890. Sealed proposals will be received
at the office of the Supervising Architect, Treasury
Department, Washington, D. C., until 2 o'clock P. M.,
on the 7th day of March, 1890, for all the labor and
materials required to complete the approaches to the
United States Post-office, etc., building at Springfield,
O., in accordance with the drawing and specification,
copies of which may be had on application at this
office or the office of the Superintendent. Each bid
must be accompanied by a certified check for \$100.
The Department will reject all bids received after the
time fixed for opening the same; also bids which do
not comply strictly with all the requirements of this
invitation. JAMES H. WINDRIM, Supervising
Architect.February 1, 1890. Sealed proposals will be received
at the office of the Supervising Architect, Treasury
Department, Washington, D. C., until 2 o'clock P. M.,
on the 28th day of February, 1890, for all the labor
and materials required to fix in place complete the
low-temperature, hot-water heating and ventilating
apparatus for the United States Post-office, etc.,
building at Springfield, Mass., in accordance with the
drawings and specification, copies of which may be
had on application at this office or the office of the
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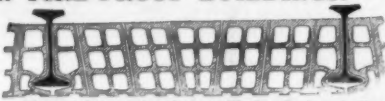
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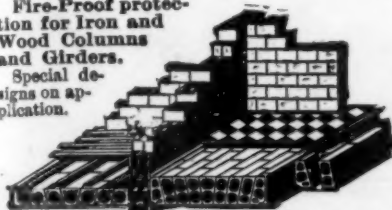
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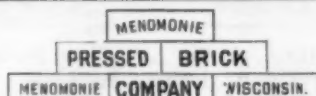
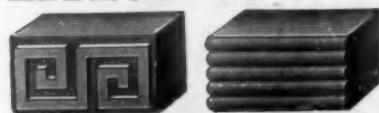
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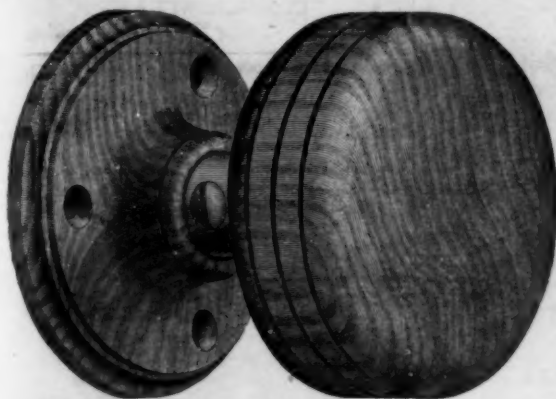
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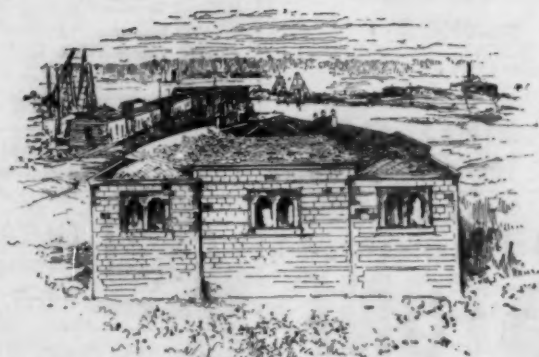
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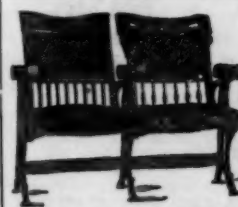
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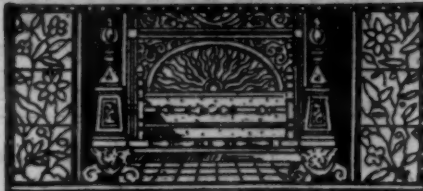
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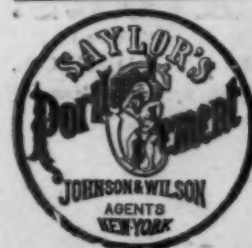
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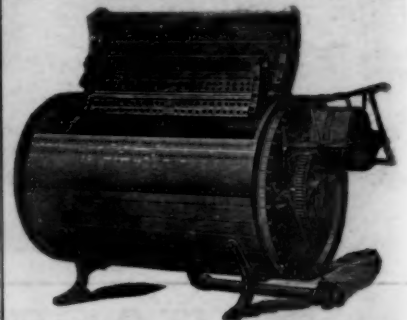
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Cherry.....

Butternut.....

Hard-pine floors (rift).....

Mahogany, Baywood (Mexico).....

Boston.

(Price to Builders and Contractors.)

Boards: (Ordinary dimensions.)

Pine, 1st quality, clear.....

" 2d quality.....

" 3d quality.....

Spruce.....

Hemlock.....

Yellow pine.....

Cypress.....

Clapboards:

Pine.....

Spruce.....

Framing Timber:

Pine.....

Spruce.....

Hemlock.....

Yellow pine.....

Laths:

Pine.....

Spruce.....

Shingles:

Pine, shaved..... P. M.

Pine, sawed.....

Spruce, sawed.....

Redwood..... P. M.

Cedar, split..... P. M.

Cedar, sawed.....

Cypress.....

Miscellaneous:

Piles.....

Fence pickets, Common.....

Cedar posts, 9 ft. (sq. posts.).....

Chestnut.....

Finishing Woods: P. M. (First Qual.)

Ash..... (Kiln-dried.)

Cherry.....

Butternut.....

Hard-pine floors (rift).....

Mahogany, Baywood (Mexico).....

Chicago.

(Price to Builders and Contractors.)

Boards: (Ordinary dimensions.)

Pine, 1st quality, clear.....

" 2d quality.....

" 3d quality.....

Spruce.....

Hemlock.....

Yellow pine.....

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Yellow pine.....

Laths:

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Shingles:

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Pine, sawed.....

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Cedar, sawed.....

Cypress.....

Miscellaneous:

Piles.....

Fence pickets, Common.....

Cedar posts, 9 ft. (sq. posts.).....

Chestnut.....

Finishing Woods: P. M. (First Qual.)

Ash..... (Kiln-dried.)

Cherry.....

Butternut.....

Hard-pine floors (rift).....

Mahogany, Baywood (Mexico).....

Philadelphia.

(Price to Builders and Contractors.)

Boards: (Ordinary dimensions.)

Pine, 1st quality, clear.....

" 2d quality.....

" 3d quality.....

Spruce.....

Hemlock.....

Yellow pine.....

Cypress.....

Clapboards:

Pine.....

Spruce.....

Framing Timber:

Pine.....

Spruce.....

Hemlock.....

Yellow pine.....

Laths:

Pine.....

Spruce.....

Shingles:

Pine, shaved..... P. M.

Pine, sawed.....

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Cedar, split..... P. M.

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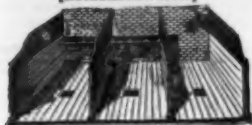
Hard-pine floors (rift).....

Mahogany, Baywood (Mexico).....

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SUCCESSORS TO JANENTZKY & WEBER.1125 Chestnut St., Philadelphia, Pa.
Branch House, 312 North 6th Street, St. Louis, Mo.

A Long Felt Want Supplied.

Martin's Guides and Foot Locks.

THIS simple device has been adopted by all Archi-
tects who have examined it, and has become a
positive necessity to all Overhead Hanging
Doors, and is being rapidly introduced into all first-
class houses.

Endorsed by Leading Architects.

TROY, N. Y., October 15, 1889.

Having specified Martin's Floor Plate and Bolts for
Sliding Doors for numerous buildings, erected under
my supervision, I can safely recommend them for the
use of steadying and securing the doors.

B. J. NOACK, Architect,

With M. F. CUMMINGS, Architect, Troy, N. Y.

TROY, N. Y., October 14, 1889.

I have specified the E. W. Martin Foot Bolt for
Hanging Sliding Doors, and earnestly recommend their
use for the purpose.

C. EDWARD LOTH, Architect.

N. B. A sample will be sent on receipt of
75c. Send for circulars and cut.

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The Empire Portable Forge Co., Lansingburgh, N. Y.

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DOUBLE TWIST WARP.

STIFFENED (Iron furred).

STANLEY CORRUGAT'D

STEVENS' RICID.

Plain, Japanned or Galvanized.

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It is usually represented that they are made by us or from our pat-
terns, and being apparently close copies, they readily deceive those
who are not familiar with our machines. By this method some of
them have been introduced and as their construction is invariably
of inferior quality the unsuspecting buyer is imposed upon and
suffers correspondingly.

We therefore call special attention to the existence of these im-
itations and to the fact that our machinery is conspicuously
marked with our trade name, the use of which by any other man-
ufacturer is unauthorized and illegal.

HENRY R. WORTHINGTON.

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Sawed, or Drilled,

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S. H. KOHN, Pres. C. P. HAUGHIAN, Vice-Pres. J. G. DUNSCOMB, Sec. BROOKLYN, N. Y.

BUILDING MATERIALS.

Reported for the American Architect and Building News.

	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
BRICK.—P. M.				
Common: Cargo afloat.				
Pale.	3 00 @ 3 50			
Jersey.	5 75 @ 6 75			
Long Island.				
Up River.				
Haverstraw Bay End.	6 75 @ 7 00			
" 1st.	7 25 @ 7 50			
Hollow.	13 00 @ 13 00			
Fronts.				
Otton, Brown.	14 00 @ 15 00			
" dark.	15 00 @ 16 00			
" red.	15 00 @ 16 00			
Chicago pressed (Anderson).				
Chicago Moulded.	7 00 @ 41 00			
Baltimore.	22 00			
Philadelphia.	22 00			
Trenton.	22 00			
Milwaukee.				
Moulded:				
Glens Falls Red Pressed.	37 00			
" Buff.	35 00			
" Moulded Red & Buff.	45 00 @ 70 00			
Enamelled: Imp.	85 00 @ 100 00			
Enamelled (edge).	90 00 @ 115 00			
Enamelled (edge and end).				
CEMENT, LIME, etc.—(P. cash.)				
Rosendale Cement.	1 20 @ 1 25			
Louisville.				
Utica, Akron, Buffalo, Milw'ke.	Not sold.			
Portland, English (Gibbs).	2 50 @ 3 00			
" (K. B. & S.).	2 50 @ 3 00			
" (Burham).	2 50 @ 3 00			
" (White's).	2 50 @ 3 00			
" (French (Lafarge)).	3 50 @ 3 75			
" German (Alsen).	2 25 @ 3 25			
" (Fewer).	2 25 @ 2 40			
" (Vorwöhler).	2 50 @ 2 90			
" (Lagerdorfer).	2 90 @ 3 25			
" (Dyckerhoff).	2 50 @ 3 00			
" (Hanover).	2 35 @ 2 85			
" (Stettin (Anchor)).	2 15 @ 2 45			
" American (Saylor's).	2 75 @ 3 00			
Roman.	5 75 @ 6 50			
Keene's coarse.	9 25 @ 10 25			
" superfine.				
LIME.				
Lime of Tenn.	3 50 @ 4 00			
Hydraulic Lime.	1 45			
Chicago Lime in bulk.				
Wisconsin.	1 00			
Rockland and Rockport, (Com.).	1 20			
Rockland and Rockport, finish.	1 20			
Kelley Island Lime, finish.	1 20			
State, com. cargo rates (nom.).	85			
State, finishing.	1 10			
Plaster of Paris (calcined).	1 30 @ 1 25			
" (casting).	1 30 @ 1 35			
Hair (Cattle) & bush.	12 @ 15			
" (Goat).	22 @ 25			
Sand, & load.	1 00 @ 1 25			
STONE.—(P. cubic foot, rough.)				
Granite: (Maine)				
Bedford.	45 @ 1 25			
Joliet.	1 00			
Lemont.				
Serpentine.				
Eastern.				
Bay State Hard.	9 75			
Domestic Com.	9 50 @ 10 00			
Domestic Face.	20 00 @ 22 00			
Philadelphia.	40 00 @ 45 00			
Phila. mould.	50 00 @ 50 00			
Anderson.	14 00 @ 32 00			
Building Brick.				
Indiana Pressed.	14 00 @ 20 00			
St. Louis Fronts.	27 00			
Red.	15 00 @ 27 00			
Dark.	65 00 @ 350 00			
Frosted.	45 00 @ 50 00			
Best Paving.	45 00 @ 50 00			
Second.	25 00 @ 100 00			
Taird.	30 @ 4 25			
Dom.	35 @ 100 00			
Not Sold.				
Brooks, S. & Co.	1 05 @ 1 30			
1 00 @ 1 25				
2 75 @ 3 25				
3 00 @ 3 25				
3 00 @ 3 25				
2 90 @ 3 15				
3 00 @ 3 25				
3 75 @ 4 25				
3 20 @ 3 40				
2 75 @ 3 00				
3 25 @ 3 50				
Not Sold.				
Not Sold.				
2 75 @ 3 00				
2 75 @ 3 25				
6 00 @ 7 00				
9 @ 10 50				
White Lime.				
25 @ 30 & bush				
White Mash				
1 25 @ 1 50				
1 00 @ 1 00				
Not sold.				
Not sold.				
Not sold.				
Not sold.				
1 55 @ 1 90				
1 85 @ 1 90				
30 @ 25				
30 @ 35				
30 @ 30				
55 @ 60				
Richmond.				
75 @ 90				
75 @ 1 00				
4 50 @ Perch				

COMPOUND Condensing or Non-Condensing.
16 SIZES, 5 to 500 H. P.
Not yet equalled by any form of Engine for
HIGH FUEL DUTY AND SIMPLICITY.

STANDARD 13 Sizes in Stock.
5 to 250 H. P.
3000 in use in all parts of the Civilized World.

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BUILDING MATERIALS.

New York.

Boston.

Chicago.

Philadelphia.

	(Wholesale Prices.)	(Prices to Builders and Contractors.)	
Mortar Colors.			
Black, brown, buff	1 lb. 24		
Colorific	1 lb. 24		
Red	1 lb. 3		
White	1 lb. 175		
Foundation:			
Dimension		500 1/2 ton	
Block		4 60 1/2 perch	
Rubble		1 25 1/2 150	
Bluestone: (1/2 sq. ft.)			
Sidewalk	30 50 500	40 1/2 175	75 1/2 100
Planed	50 60 600		50 1/2 100
Sandstone:			
Longmeadow	80 1/2	80 1/2 90	
Kibbe	90 1/2	90 1/2 110	
Brown (Connecticut)	1 00 1/2	1 25 1/2 145	1 50 1/2 cub. ft.
Amherst	90 1/2 145	90 1/2 100	45 1/2 55
Berea	75 1/2 140	80 1/2 90	45 1/2 55
Berlin	75 1/2 140	80 1/2 90	55 1/2 65
Belleville	80 1/2 140	1 25 1/2 135	6 1/2 1 25
New Brunswick (Dorchester)		75 1/2 90	
Caen	105	2 00	
Carlisle, English	105	1 05	
Corse Hill (Scotch)	105	1 05	
Marble: (1/2 cu. ft.)			
Leo, Mass.		1 75 1/2 250	Not sold.
Rutland, white and blue		3 00	3 50 1/2 6 00
Sutherland Falls	1 25 1/2 175	2 00	350 1/2 6 00
Glens Falls, black			Not sold.
Italian, blue-veined			Not sold.
"Sienna			Not sold.
Tennessee, red			4 40
"Knoxville			4 40
Pennsylvania, blue			4 40
Vermont, white			3 50 1/2 6 00
Slates: Roofing (1/2 square)			
green	5 00 6 00	4 75 1/2 5 25	5 50 1/2 6 10
"unfading	5 00 6 00	5 50 1/2 6 50	5 50 1/2 7 10
"purple	5 00 6 00	5 50 1/2 6 50	5 50 1/2 7 10
"red	4 25 1/2 4 75	10 00 11 00	12 00 14 00
"black, Lehigh			6 25 1/2 8 85
"Chapman	5 50 8 00	5 50 8 00	7 30 1/2 8 00
Unfading Black, Monson, Me.			6 00 1/2 9 00
Tiles, Am.			Not sold.
N. Peach Bottom, warranted unfading			
PAINTS. (In oil, 1/2 lb.)			
White lead, Am.	7 1/2 7 1/2	7 1/2	6 1/2 7
"Zinc	5 1/2 7 1/2	7 1/2	6 1/2 7
Red lead, Am.	6 1/2 10 1/2	7 1/2 12	6 1/2 10 1/2
"Venetian	6 1/2 10 1/2	7 1/2 12	6 1/2 10 1/2
Vermilion	6 1/2 10 1/2	7 1/2 12	6 1/2 10 1/2
Red Indian, Eng.	12 1/2 20	12 1/2 20	12 1/2 20
Yellow Ochre	6 1/2 15	7 1/2 12	3 1/2 15
"Chrome	12 1/2 20	18 1/2 25	15 1/2 25
Green (chrome)	8 1/2 13	8 1/2 20	8 1/2 20
Green, Paris	25 1/2 40	25 1/2 40	18 1/2 35
Black, lamp	15 1/2 25	15 1/2 25	8 1/2 30
Blue, ultramarine	12 1/2 18	14 1/2 30	12 1/2 35
Oil, linseed, (raw)	6 1/2 65	60 1/2 61	57 1/2 60
"boiled	43 1/2 44	63 1/2 64	61 1/2 63
Turpentine	2 1/2 4	48 1/2 49	51 1/2 51
Varnish, coach	2 1/2 4	150 1/2 600	1 25 1/2 2 00
Shellac	2 1/2 4	2 50 1/2 3 00	2 25 1/2 4 00
Putty	2 1/2 4	2 1/2 4	92 1/2 92 1/2
Whiting	7 1/2 100	1 1/2 1 1/2	1 1/2 1 1/2
Paris white, (Eng.)	1 30 2 00	2 1/2 3	1 1/2 2
Litharge, Am.	14 1/2 6	7 1/2	6 1/2 7
Sienna (burnt)	14 1/2 20	14 1/2 20	4 1/2 16
Umber	14 1/2 20	14 1/2 20	2 1/2 10
HARDWARE.			
Nails: (Per Cask.) Spikes, (wrought.)	2 1/2 2 50	2 30	2 05 1/2
10d. common	2 1/2 2 50	2 50	2 1/2 2 15
Shingle	3 35	3 70	2 1/2 2 05
Lath	4 45		3 55
Finishing nails according to size.			Add .85 to \$1.15
(For casing nails add 10c. per keg.)			.50 to .50
Butts: 4"x4" (1/2 doz. pairs)	1 00	1 20	65 1/2 1 00
Plain	1 50	1 75	Not sold.
Japanned	1 50	1 90	2 00 1/2 3 75
Acorn, Japanned	1 50	1 90	Not sold.
Ball Tip, Boston Finish (1/2 pair)	65	50	Not sold.
Bronze metal	1 90	plain 1 65	2 00 1/2 3 25
Brass (or supboards)	10	10	150 1/2 3 00
Ebony			13 00 15 1/2
Apple wood			
Knobs: (1/2 set.)			
Mineral, best	8	8	8 1/2 10
Lava	50	75	65 1/2 80
Hemlock	Not sold	17 1/2 33	31 1/2 40
Porcelain	30	10	25 1/2 30
Glass, solid	Not sold	50	Not sold.
Glass, silvered	Not sold	88 1/2 1 00	Not sold.
Bronze metal	75 1/2 2 00	50 1/2 3 00	50 1/2 4 50
Brass	100 1/2 2 50	50 1/2 3 00	1 50 1/2 3 00
Solder:			
Sheet Lead		6 1/2	13 00 15 1/2
Lead Pipe		6	
Iron:			
I-Beams, up to and including 30 ft.	3 3-10 1/2 34	3 1-11	2 8-10
I-Beams, over 30 ft. 1, 2, 3, 4 c. advance.	3 3-10 1/2 34	3 1-10	2 8-10
Channel Beams			2 8-10

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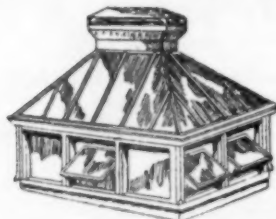


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VENTILATORS**



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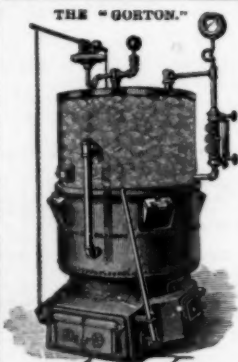
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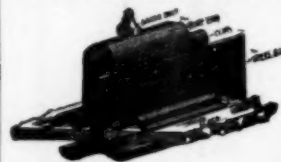
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Offices, 69-73 Broadway, N. Y.

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SOLE MANUFACTURER OF

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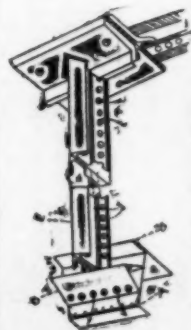
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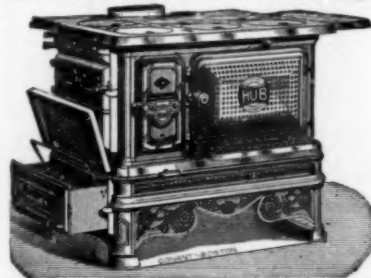
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By using the Wire Gauze Oven Door with the new
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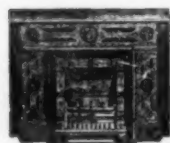
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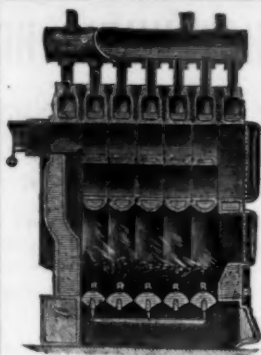
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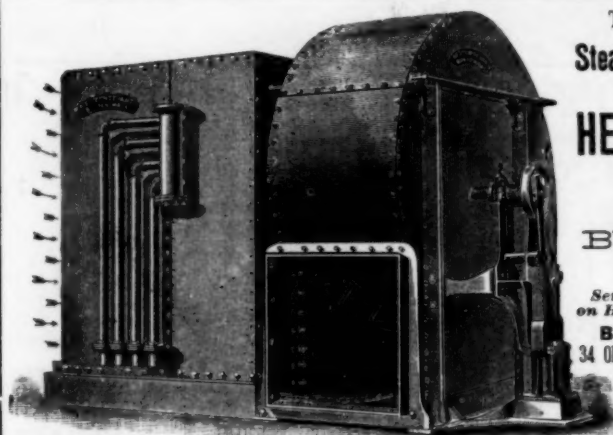
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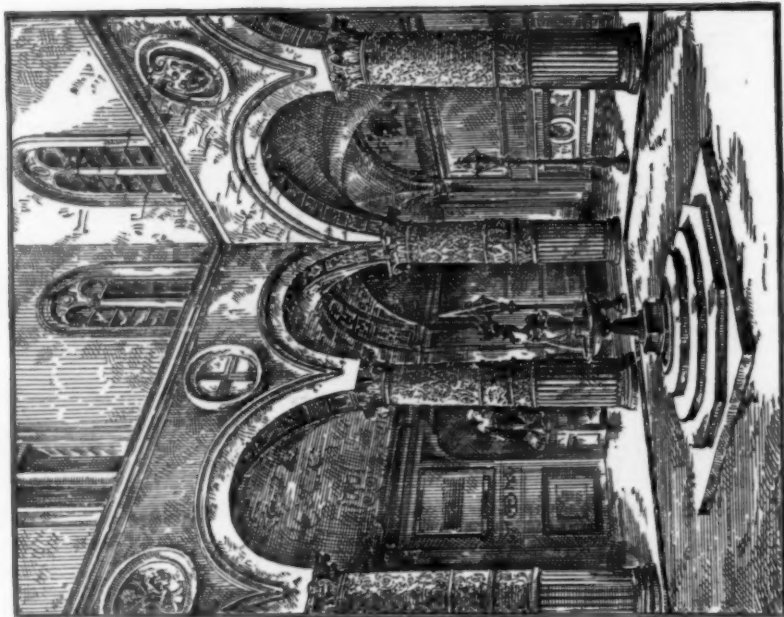
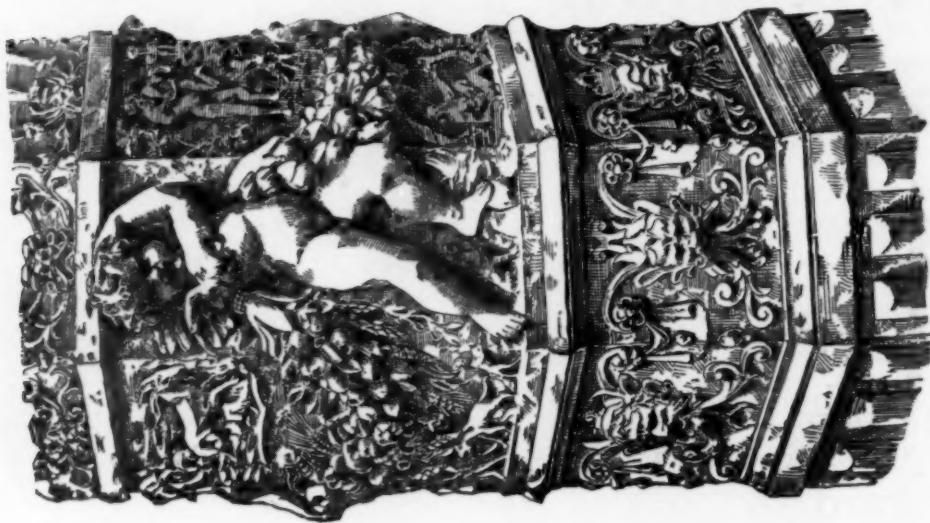
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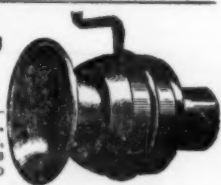
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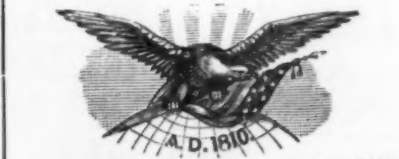
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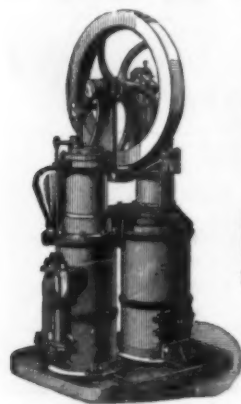
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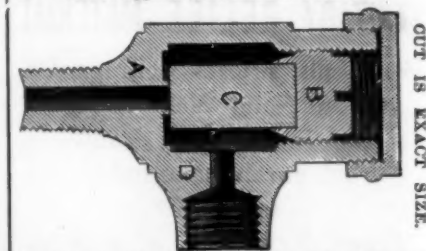
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New Advertisements.

MURPHY & CO. (Newark, N. J.), Varnish. Page xlii.
JOHN WILLIAMS (New York, N. Y.), Iron Work. Page xi.
STANDARD PAINT CO. (New York, N. Y.), Building Paper. Page v.

WANTED.

PARTNERSHIP.—A prominent architect with twelve years' New York experience on largest buildings wishes to form partnership with a leading architect in Chicago, Minneapolis or other large, growing Western city. Would prefer to have the direction of the office-work rather than the superintendence of construction, though he may attend to both. Correspondence solicited, and propositions to be sent to "800," office of the American Architect, 739

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PERMANENT POSITION.—Wanted, by a first-class draughtsman, a permanent position or to negotiate partnership with an established architect; English and American experience; highest references. Address "J. R.," office of American Architect, 739

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DESIGNER AND DRAUGHTSMAN.—Wanted, designer and draughtsman of bank and court-house furniture; must thoroughly understand construction and the nature of materials, and must be well versed in architecture; will pay salary. Address "Court-House," this office. t. f.

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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.)

ALTERATIONS.

Chicago, Ill.—H. Bird, three-sty addition, 65 Flournoy St.; cost, \$1,000.
Germantown, Pa.—T. Welsh, rebuilding country dwell., interior alterations, etc.; architect, H. Edwards-Picken, New York.

New York, N. Y.—The India Wharf Brewing Co. is to have one of its buildings converted into offices and stables; architects, Lederle & Co.
West Thirteenth St., Nos. 23-25, 2 one and four-sty

BUILDING INTELLIGENCE.

brick stores, extended and internal alterations; cost, \$7,000; owner, Frank Lazarus, 43 West Ninth St.; architect, Charles D. Perry, 212 St. Nicholas Ave.

Broadway, No. 749, four-sty brick store, raised to seven stories and internal alterations; cost, \$15,000; owner, Simon Dessau, 140 East Seventy-ninth St.; architect, Schneider & Herter, 48 Bible House.

West One Hundred and Twenty-fifth St., Nos. 268-270, one-sty brick store, extension and internal alterations; cost, \$6,000; owner, H. G. Sillick, 2 West One Hundred and Twenty-sixth St.; architect, John E. Darragh, 158 West One Hundred and Twenty-fifth St.

Twenty-second St., near Sixth Ave., five-sty extension to store; owners, Hugh O'Neill & Co.; architect, Mortimer C. Merritt.

Philadelphia, Pa.—Catharine St., No. 2027, one-sty addition to building; owner, John Lusby, 2027 Catharine St.

Columbia Ave., No. 2008, new front, alterations, etc.; contractor, Jos. Bird, 1021 Hunter St.

Fifth St., a Passyunk Ave., front and interior alteration; contractor, J. B. Wiggins, 1536 Seybert St.

Eleventh St., s e cor. Market St., two-sty addition

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BUILDING INTELLIGENCE.

to Bingham House; contractors, Benj. Ketchum & Son, 1209 Brown St.

Queen La., n Newtown R. R., one-sty addition to

brewery; owner, John Hohenadel, 3506 Queen La.

South Sixteenth St., No. 221, one-sty addition to

shop; contractor, W. H. Doyle, 1214 South Broad St.

Harmony St., s, e Fourth St., one-sty addition to

office; contractor, J. R. Jordan, 1626 Broad St.

Sixtieth St., w, s, Walnut St., one-sty addition to

back building; contractor, J. D. Mitchell, Fernwood.

Water St., w, s, Unity St., two-sty alteration of

stable to dwell; contractor, Wm. Worrall, 108

Gillingham St.

Sansom St., s, w Eighth St., six-sty annex to

the Times newspaper building; contractor, Allen B.

Rorke, 732 Drexel building.

Mulberry St., n, w Brown St., one-sty addition

to back building; contractor, Alfred Gray, 4788 Mul-

berry St.

Twenty-second St., e, s, n Allegheny Ave., two-sty

addition to factory; owner, Saml. H. Wetherill,

Twenty-second St. and Allegheny Ave.

Bainbridge St., No. 1635, front alteration; con-

tractor, Wm. Clementson, 2013 Watkins St.

Market St., s, e, Twenty-second St., one-sty addi-

tion to store; owner, E. V. Tobler, Berwyn.

Orkeley St., No. 2638, alteration of stable to dwell;

contractor, Samuel M. Gilbert, 810 West Hunting-

don St.

Twelfth St., s, w cor. Market St., interior and ex-

terior alterations; contractor, Geo. F. Payne, 401

South Juniper St.

Forty-fourth St., e, s, south of Locust St., altera-

tion.

Willow St., s, w Twelfth St., one-sty addition to

warehouse; contractor, Thos. H. Marshall, 3717

Baring St.

Vine St., No. 201, one-sty addition to back build-

ing; contractor, H. Friedman, 923 South St.

Carpenter St., No. 735, front alteration; con-

tractor, Nicholas Toce, 835 Carpenter St.

Walnut St., No. 219, interior alteration; con-

tractor, C. B. Stroup, 1718 North Eleventh St.

Market St., No. 923, two-sty addition to store;

contractor, S. B. Fowler, 2344 Norris St.

East Somerset St., No. 2050, two-sty addition to

front building; contractor, M. Morrison, 2040 Coral

St.

Park Ave., Nos. 2435-37, two new fronts; con-

tractors, Stephen Morris & Son, 123 North Sixth St.

Scott St., No. 1911, alteration of stable to dwell;

owner, A. G. Croll, 855 North Broad St.

Union St., w, s, n Reno St., one-sty addition to

store; contractor, C. M. Busch, 504 South Forty-

second St.

Union St., w, s, n Reno St., one-sty addition to

store; contractor, C. M. Busch, 504 South Forty-

second St.

North Ninth St., No. 16, one-sty addition to store;

contractor, Wm. P. Fogg, 114 North Thirteenth St.

Race St., s, w Eighth St., three-sty addition to

foundry; contractor, John C. Kelley, 1218 Brown St.

Cherry St., near Eighteenth St., the Medico-

Surgical College, two-sty addition.

APARTMENT-HOUSES.

Chicago, Ill.—D. F. Anderson, 4 two-sty flats, 1262-

64-70 Ohio St.; cost, \$10,000.

D. F. Anderson, 5 two-sty flats, 230-238 Mead St.;

cost, \$12,000.

D. F. Anderson, 6 two-sty flats, 207-227 Kedzie

Ave.; cost, \$15,000.

D. F. Anderson, 5 two-sty flats, 229-237 North

Kedzie Ave.; cost, \$12,000.

Mary Heidrick, four-sty flats, 614 North Franklin

St.; cost, \$2,500.

G. Thompson, 2 two-sty flats, 373-75 Hermitage

St.; cost, \$9,000.

Hector Sinclair, three-sty flats, 4207 Langley

Ave.; cost, \$5,000.

John G. Donohue, three-sty flats, Sixty-seventh

St., near Vincennes St.; cost, \$9,000.

Henry Garben, three-sty flats, 15 Austin Ave.;

cost, \$6,000.

D. F. Anderson, 7 two-sty flats, 208-12, 216, 222,

226, 229 Mead St.; cost, \$23,000.

Joseph Desjardens, 5 two-sty flats, 709-8 Rockwell

St.; cost, \$14,000.

Joseph Desjardens, 2 two-sty flats, 818 Rebecca

St.; cost, \$2,000.

Henry Kerr, two-sty flats, 1169 Wilcox St.; cost,

\$8,000.

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BUILDING INTELLIGENCE.

J. D. Milliken, 3 three-sty flats, 2974-78 Vernon

Ave.; cost, \$13,000.

A. Hanner, two-sty flats, 500 West Fourteenth

St.; cost, \$3,000.

Matt. Rolence, three-sty flats, 2938 Dashiell St.;

cost, \$4,000.

M. A. Hageman, two-sty flats, 5708 Dearborn St.;

cost, \$2,500.

Gus. Johnson, two-sty flats, Centre Ave., near

Sixty-seventh St.; cost, \$1,700.

C. Swanson, two-sty flats, 1717 School St.; cost,

\$2,000.

Phillip Schmidt, two-sty flats, 772 West Division

St.; cost, \$1,800.

W. L. Blood, 9 two-sty flats, 852-74 North Western

Ave.; cost, \$32,000.

W. F. O'Hearne, 4 two-sty flats, 1476-82 Congress

St.; cost, \$8,000.

W. B. Thompson, two-sty flats, 445 Forty-sixth

St.; cost, \$5,500.

J. W. Munsell, 2 two-sty flats, Sixty-eighth and

Marshfield Sts.; cost, \$2,200.

A. Tallberg, two-sty flats, 8357 Mackinac St.;

cost, \$3,000.

Peter Bloom, two-sty flats, 6323 McChesney St.;

cost, \$1,500.

M. B. Bailey, 2 three-sty flats, 115-117 Nebraska

St.; cost, \$5,000.

Edw. Shen, two-sty flats, 1482 West Congress St.;

cost, \$3,500.

Andrew Anderson, two-sty flats, Green Bay Ave.;

cost, \$1,200.

M. Ketter, two-sty flats, 1406 Filmore St.; cost,

\$2,900.

C. B. Flinn, 5 two-sty flats, 90-98 Whipple St.;

cost, \$15,000.

Henry Brandt, two-sty flats, 128 Osgood St.; cost,

\$2,500.

Eugene Geissler, 3 two-sty flats, 711-715 Wood St.;

cost, \$14,000.

Adam L. Geoch, two-sty flats, 609 Fairfield Ave.;

cost, \$2,200.

John Jensen, 12 two-sty flats, 701-715 and 683-697

North Oakley St.; cost, \$19,200.

John Jensen, 10 two-sty flats, 660, 666, 692-698,

708, 712 North Oakley St.; cost, \$16,000.

Chas. Kigeland, three-sty flats, 17 Elk Grove

Ave.; cost, \$3,500.

E. J. Lehman, 4 three-sty flats, 2301-2307 Dear-

born St.; cost, \$12,000.

J. Kodee, two-sty flats, Cloud St., near Fifty-

seventh St.; cost, \$2,400.

H. C. Lamb, two-sty flats, 787 Rockwell St.; cost,

\$2,500.

W. Drisler, two-sty flats, 3611 Fifty-sixth St.;

cost, \$2,000.

Henry Pfaff, three-sty flats, 3121 Lowe Ave.;

cost, \$4,200.

Philip Kauon, two-sty flats, Fifty-ninth and

Wentworth Sts.; cost, \$2,800.

J. E. Tracy, two-sty flats, 1625 Carroll Ave.;

cost, \$3,000.

H. Bergman, 6 two-sty flats, 67-77 Florence Ave.;

cost, \$8,000.

Minneapolis, Minn.—A. W. Trusell, brick flats,

104-10 Twelfth St., n; cost, \$15,000.

New York, N. Y.—Twenty-seventh St., n, s, 100' e

Tenth Ave., 3 five-sty brick flats, tin roofs; cost,

\$60,000; owner, Whitfield Terriberry, 24 Charles St.;

architect, John C. Burne, 1531 Third Ave.

First Ave., s, w cor. One Hundred and Ninth St.,

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five-sty brick flat, tin roof; cost, \$25,000; owner,

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Burne, 1531 Third Ave.

One Hundred and Eleventh St., s, s, 400' e Fifth

Ave., 6 five-sty brick flats, tin roofs; cost, \$140,000;

owner, John Hickey, 1729 Lexington Ave.; archi-

tect, Edward Wenz, 1491 Third Ave.

Ninety-third St., s, s, 105' w Fourth Ave., 3 five-sty

brick flats, tin roofs; cost, \$60,000; owner, Nicholas

J. Reville, 35 Sutton Pl.; architect, Max Hensel,

1077 Ninth Ave.

West Twenty-ninth St., No. 420, five-sty brick flat,

tin roof; cost, \$18,000; owner, Robert Auld, 391

Manhattan Ave.; architect, Ralph S. Townsend, s e

cor. Seventy-second St. and Ninth Ave.

Second Ave., s e cor. Ninety-fourth St., 4 five-sty

brick flats, tin roofs; cost, \$117,000; owner, Annie

L. Hatch, 1-24 Second Ave.; architects, Schneider &

Herter, 48 Bible House.

One Hundred and Sixteenth St., n e cor. Madison

Ave., five-sty brick flat, tin roof; cost, \$60,000;

owners, McDonough & O'Sullivan, 179 East One

Hundred and Thirtieth St.; architect, Thomas P.

Neville, 163 East One Hundred and Twenty-fifth St.

Lenox Ave., five-sty stone, brick and terra-cotta

apartment-house; cost, \$50,000; architect, John A.

Hamilton.

Willis Ave., w, s, 50' n One Hundred and Forty-

fifth St., 2 five-sty brick and brownstone apart-

ment-houses; cost, \$45,000; owners, M. C. and C.

Kervans; architect, R. R. Davis.

Seventieth St., Tenth Ave. and the Boulevard,

seven-sty brick and stone flat with stores; cost,

\$175,000; owners, Terence Farley's Sons.

Forsyth St., No. 104, five-sty brick flat, tin roof;

cost, \$17,000; owner, Albert Stuke, Stapleton, N. Y.;

architect, Alex. I. Finkle, s w cor. Broadway and

Spring St.

West Ninety-fourth St., Nos. 107-109, six-sty brick

flat, tin roof; cost, \$50,000; owner, John H. Bab-

cock, 1649 First Ave.; architects, Fiemer & Koehler,

261 Broadway.

Orchard St., No. 37, s w cor. Herter St., five-sty

brick flat, tin roof; cost, \$25,000; owner, Abraham

Devosky, 35 Orchard St.; architects, Herter Bros.,

191 Broadway.

Pike St., n w cor. Monroe St., six-sty brick flat,

tin roof; cost, \$30,000; owner, Peter Herter, Green-

ville, N. J.; architects, Herter Bros., 191 Broadway.

Eighty-ninth St., n, s, 210' e Third Ave., 5 five-sty

brick flats, tin roofs; cost, \$75,000; owner, Fredk.

Schuck, Avenue A and Eighty-fifth St.; architect,

Edward Wenz, 1491 Third Ave.

Ninetieth St., s, s, 110' e Third Ave., 4 five-sty

brick flats, tin roofs; cost, \$60,000; owner, Fredk.

Schuck, Avenue A and Eighty-fifth St.; architect,

Edward Wenz, 1491 Third Ave.

One Hundred and Sixteenth St., n, s, 30' e Madison

Ave., 4 five-sty brick flats, tin roofs; cost, \$100,000;

owners, McDonough & O'Sullivan, 1480 Park Ave.

and 1984 Third Ave.; architect, Thomas P. Neville,

163 East One Hundred and Twenty-fifth St.

Lenox Ave., w, s, 25' s One Hundred and Thirty-

fourth St., 3 five-sty brick and stone flats; owner,

Chas. E. Hume; architect, W. H. Hume.

St. Nicholas Ave., n w cor. One Hundred and

Fifty-sixth St., five-sty brick and stone flat; cost,

\$24,000; owner, M. Ash; architects, Schneider &

Herter.

West Central Park, n w cor. One Hundred and

Fourth St., 4 five-sty and basement light brick and

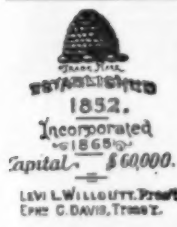
stone flats; cost, \$140,000; owner, J

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which to build a Catholic cathedral to cost abt. \$100,000.

New York, N. Y.—Kingsbridge Rd., n w cor. Marion Ave., church with chapel and parsonage; cost, \$50,000; owners, New York City Church Extension and Missionary Society of the Methodist Episcopal Church; architects, J. C. Cady & Co.

Owensboro, Ky.—Plans for the First Presbyterian Church, to cost \$15,000, have been made by Pierce & Dockstader, architects, Elmira, N. Y.

FACTORIES.

Cincinnati, O.—Corvillart Artificial Ice Co., one and two st'ry manufactory, Poplar St.; cost, \$3,300; architect, Mr. Freidman, New York.

New York, N. Y.—Twenty-fifth St., s s 325 w Tenth Ave., two and five-st'ry brick factory, tin roof; cost, \$40,000; owners, J. S. Conover & Co., 28 West Twenty-third St.; architect, James M. Farnsworth, Temple Court, N. Y.

Sixty-seventh St., s s 250 e Ninth Ave., six-st'ry brick factory, tin roof; cost, \$50,000; owner and builder, Edward Kilpatrick, 1060 Madison Ave.

Philadelphia, Pa.—Cherry St., n e cor. Nicholas St., four-st'ry factory; contractor, Chas. McCaull, 20 North Eleventh St.

Commerce St., n s Sixth St., rear, five-st'ry factory; contractor, J. B. Wiggins, 1386 Seybert St.

HOUSES.

Baltimore, Md.—F. E. Yewell, 4 three-st'ry brick buildings, w s Eutaw Pl., n Boundary Ave.
J. H. Hoffacker, 9 two-st'ry brick buildings, n s Oliver St., e Bond St.

C. H. Callis & Co., 16 two-st'ry brick buildings, s s Carlisle Pl., e Broadway, and 6 two-st'ry brick buildings, e s Broadway, n Carlisle Pl.

F. H. Calloway, 3 two-st'ry brick buildings, w s Kirk St., n Hoffmann St., e Pennsylvania Ave.
Wm. H. Hampson, 2 three-st'ry brick buildings, s s North Ave., w Linden Ave.; and 2 three-st'ry brick buildings, n s Pressman St., w Linden Ave.

German H. Hunt, three-st'ry brick and stone building, w s Eutaw St., n Laurens St.

Richard F. Foster, 5 two-st'ry brick buildings, s w cor. Baker St. and Newington Pl.; 13 two-st'ry brick buildings, w s Newington Pl.; and 5 two-st'ry brick buildings, n w cor. Windsor Mill Road and Newington Pl.

Boston, Mass.—Condor St., Nos. 8-10, Ward 1, 2

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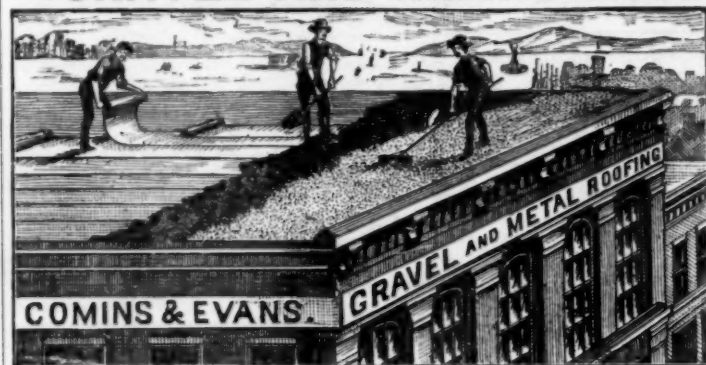
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BUILDING INTELLIGENCE.

three-st'ry frame dwells., pitch roofs, 20.10' x 50'; owner, R. J. Elder; builder, J. W. Stevenson.
Bennington St., near Moon St., Ward 1, frame dwell., 22' x 49'; owner, J. P. Better; builder, E. J. Turner.

Brookline, Mass.—Harvard St., cor. Auburn St., frame dwell., 38' x 41', with L, 22' x 23'; finished in hard wood; eight open fireplaces, with all modern conveniences; furnace heat; architect, O. F. Smith, Boston.

Park St., cor. Auburn St., frame dwell., 40' x 44', with L, 50' x 32'; interior finish of hard wood; two bath-rooms, billiard room; fitted with all modern conveniences; also frame stable, 34' x 50'; two stories and coachman's apartments; five stalls, etc.; owner, H. W. Burgett; architect, O. F. Smith, Boston.

Chicago, Ill.—John Fredericks, two-st'ry dwell., Edgemoor St.; cost, \$3,500.
Jas. Kelley, two-st'ry dwell., Leland St., near Robey St.; cost, \$1,500.

Sarah De Goff, two-st'ry dwell., 239 Forty-fourth St.; cost, \$2,000.
W. C. Hartman, two-st'ry dwell., 4112 Evans Ave.; cost, \$2,600.

F. R. Otis, three-st'ry dwell., 4356 Greenwood Ave.; cost, \$4,000.

Mills Bros., two-st'ry dwell., Michigan Ave., near Sixty-eighth St.; cost, \$2,500.

W. Wilson, two-st'ry dwell., 4342 Langley Ave.; cost, \$4,000.

J. N. Cunningham, two-st'ry dwell., 1148 West Congress St.; cost, \$3,000.

David Walker, one-and-one-half-st'ry cottage, Howan St.; cost, \$1,100.

J. E. Jones & Co., two-st'ry dwell., 951 Warren Ave.; cost, \$5,000.

S. P. Soderholm, cottage, Woodbine and Thomas Sts.; cost, \$1,000.

John Forman, cottage, 1648 Spalding St.; cost, \$1,100.

S. Stephens, two-st'ry dwell., 833 Racine Ave.; cost, \$2,000.

A. Dammaler, two-st'ry dwell., 260 Ward St.; cost, \$1,600.

Otto Ehlert, cottage, Ninety-third St., near Ontario St.; cost, \$1,000.

Fred Miller, two-st'ry dwell., Avenue K, near Ninety-eighth St.; cost, \$1,000.

A. M. Zettill, two-st'ry dwell., 46 May St.; cost, \$5,000.

H. W. Hanson, two-st'ry dwell., Buckingham Pl.; cost, \$2,500.

F. G. Dalstrom, cottage, Garfield Ave. and Clay St.; cost, \$1,000.

C. D. Snapp, cottage, Seventy-first St., near Wentworth Ave.; cost, \$1,500.

M. Glenlow, cottage, Carpenter and Sixty-ninth Sts.; cost, \$1,200.

O. R. Thompson, two-st'ry dwell., Sixty-eighth and Sherman Sts.; cost, \$2,000.

BUILDING INTELLIGENCE.

J. S. Martin, three-st'ry dwell., 190 North State St.; cost, \$3,500.

Arthur Whiting, two-st'ry dwell., Ohio and West Forty-ninth Sts.; cost, \$1,500.

Fred Schutte, cottage, 3567 South Robey St.; cost, \$1,000.

Frank Chervin, cottage, 1171 Troy St.; cost, \$1,100.

C. Raeb, two-st'ry dwell., 9138 Superior St.; cost, \$1,600.

Carl Lindberg, two-st'ry dwell., 734 Englewood Ave.; cost, \$1,800.

H. Deleiden, one-and-one-half-st'ry dwell., 2886 Ashland St.; cost, \$1,400.

Prent & Wilson, 6 two-st'ry dwells., Dickey St., near Sheridan St.; cost, \$7,000.

John Krick, cottage, Harrison St., near Fortieth St.; cost, \$1,200.

D. F. Anderson, 8 two-st'ry dwells., Central Park Bou.; cost, \$25,000.

Andrew Dronik, 2 two-st'ry dwells., 8358 Buffalo St.; cost, \$1,500.

Frank Clark, two-st'ry dwell., Loomis St., near Fifty-fifth St.

W. D. Kerfoot & Co., 6 two-st'ry dwells., Thomas St.; cost, \$12,000.

John Sunka, cottage, 552 Ambrose St.; cost, \$1,200.

John Held, three-st'ry dwell., 650 West Twenty-first St.; cost, \$7,000.

N. Lund, two cottages, 979-981 Herndon St.; cost, \$1,000.

N. Calhoun, cottage, Jackson St., near Fifty-fourth St.; cost, \$1,000.

Joseph Zema, two-st'ry dwell., 4812 Cook St.; cost, \$1,000.

S. B. Hawes, cottage, 5475 Tompkins St.; cost, \$1,500.

Wm. Conroy, two-st'ry dwell., 5414 Indiana Ave.; cost, \$3,000.

O. M. Wells & Co., 3 two-st'ry dwells., 751-755 Madison Ave.; cost, \$12,500.

F. C. Berry, 2 three-st'ry dwells., 4438-4440 Woodlawn Ave.; cost, \$9,000.

Christ. Arneson, cottage, 165 Ems St.; cost, \$1,000.

A. Mendell, 2 three-st'ry dwells., 4356-4358 Grand Bd.; cost, \$30,000.

T. N. Cunningham, cottage, 1190 West Congress St.; cost, \$16,000.

Peter Smith, two-st'ry dwell., 143 Wilson St.; cost, \$9,000.

John Slavish, cottage, 47 Coulter St.; cost, \$1,000.

V. A. Gardner, cottage, 1046 Clifton Park Ave.; cost, \$1,200.

S. Bowen, cottage, Pittsfield St., near Sixty-second St.; cost, \$1,000.

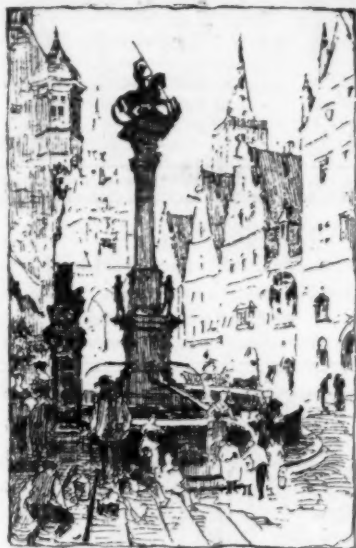
J. W. Roediger, four cottages, 864-867 Byron Ave.; cost, \$2,500.

E. L. Lord, two-st'ry dwell., Perry Ave., near Sixty-ninth St.; cost, \$2,600.

J. B. Sullivan, two-st'ry dwell., 5928 Prairie Ave.; cost, \$3,700.

John Janson, cottage, 50 Indiana Ave.; cost, \$1,000.

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Albert Sness, cottage, Seminary Ave.; cost, \$4,000.
B. B. Thomson, two-sty dwell., 1011 Fairfield Ave.; cost, \$3,000.
Fred Hart, two-sty dwell., 1619 Fifty-first St.; cost, \$1,300.
Cincinnati, O.—W. W. Smith, 3 two-and-one-half-sty dwells., Francis La.; cost, \$7,500; architects, Crapsey & Brown.
John Cook, two-and-one-half-sty dwell.; Beech Ave.; cost, \$4,300; architect, S. E. Des Jardins.
J. Freiberg, 2 double two-and-one-half-sty dwells., Fulton Ave.; cost, \$7,000; architect, S. S. Godley.
Frank Schmidt, two-and-one-half-sty dwell., Colerain Ave.; cost, \$3,500; architect, Louis Frey.
J. R. Reed, double two-sty dwell., Grove St.; cost, \$2,500; architect, J. O. Woodward.
August Maley, owner and architect, three-sty dwell., Eighth St.; cost, \$2,600.
Denver, Col.—Murdock St., cor. Goss St., terrace of six dwells.; cost, \$10,000; owner, Sara E. Reed; architects, Baerresen Bros.
Venice St., bet. Tenth and Eleventh Aves., two-sty brick dwell.; cost, \$6,000; owner, H. C. Stuchfield; architects, F. E. Edbrooke & Co.
High St., bet. Twenty-eighth and Twenty-ninth Aves., eight brick dwells.; cost, \$20,000; owner, Thos. Freeman; architect, F. Goodnow.
Grant Ave., bet. Sixteenth and Seventeenth Sts., brick dwell.; cost, \$18,000; owner, H. A. Lemen; architects, F. E. Edbrooke & Co.
Bert St., cor. Kent St., brick terrace of six dwells.; cost, \$7,000; owner, Jas. Lalor; architect, A. Carlin.
Logan Ave., bet. Eleventh and Twelfth Aves., two-sty brick dwell.; cost, \$7,000; owner, F. A. Thompson; architects, Varian & Sterner.
Kennebunkport, Me.—Frame dwell., 24' x 32'; owner, L. F. Cutter; builder, Octavius Hutchins; architect, O. F. Smith, Boston.
Lansdowne, Pa.—Miss Minerva Parker, architect, 14 South Broad St., Philadelphia, dwell. for Mrs. Hartell; also dwell. for Mr. Geo. W. Christy at Elm Station, and for Lewis T. Brown, Esq., Radnor, a country seat.
Minneapolis, Minn.—Herman Lake, frame dwell., 3243 Eighth Ave.; cost, \$5,000.
Herman Lake, frame dwell., 3247 Eighth Ave.; cost, \$5,000.
Herman Lake, 4 frame dwells., 807-813 East Thirty-third St.; cost, each, \$5,000.
G. N. Brownell, frame dwell., Park Ave., bet. Thirtieth and Thirty-first Sts.; cost, \$5,500.
Mary Hill, frame dwell., 1910 Stevens Ave.; cost, \$10,000.
New York, N. Y.—One Hundred and Fifty-first St., s. s. 525' x Grand Boulevard, 2 three-sty brick dwells., gravel roofs; cost, \$12,000; owner, A. J. Fullam, 443 West Thirty-fourth St.
Ninety-third St., s. s. 100' x Tenth Ave., 7 three-sty brick dwells., tin roofs; cost, \$81,000; owner and architect, W. P. Anderson, s. w. cor. Ninety-third St. and Ninth Ave.
Eighty-seventh St., s. s. bet. Riverside Drive and West End Ave., 5 four-sty and basement brick and stone dwells.; cost, \$80,000; owners, Dunn Bros.; architect, F. A. Minuth.
Northampton, Mass.—Mrs. D. H. Horton, dwell., Pleasant St.; cost, \$8,000; contractors, C. N. Harlow & Co.
Philadelphia, Pa.—William St., s. e. cor. Belgrade

BUILDING INTELLIGENCE.

St., 7 two-sty dwells.; owner, John S. Kelly, 624 Erie Ave.
Forty-fourth St., s. s. s. Locust St., three-sty dwell.; contractor, Thos. Marshall, 259 South Forty-fourth St.
Myrtle St., No. 1208, three-sty dwell.; contractors, W. W. Binder & Son, 1909 Columbia Ave.
Twenty-seventh St., w. s. s. Columbia Ave., two-sty dwell.; owner, Oscar McKenna, 1718 North Twenty-seventh St.
Marston St., s. s. s. Columbia Ave., two-sty dwell.; owner, Owen McKenna, 1718 North Twenty-seventh St.
Marshall St., s. s. n. Norris St., 3 two-sty dwells.; owner, Mary E. Broomal, 2011 North Seventh St.
Clearfield St., s. s. e. Twenty-second St., three-sty dwell.; owner, Henry Goodman, 2116 Clearfield St.
Opal St., w. s. s. Dauphin St., 16 two-sty dwells.; owner, Francis Hankin, 2104 Fitzwater St.
Memphis St., w. s. n. Norris St., 2 three-sty dwells.; contractor, Robt. Beatty, 2314 East Dauphin St.
William St., s. e. cor. Belgrade St., 7 two-sty dwells.; owner, John S. Kelly, 624 Erie Ave.
Melrose St., n. s. w. Fifty-fourth St., two-sty dwell.; owner, Lewis Kirk, 5422 Haverford St.
Second St., s. s. s. Snyder Ave., 25 two-sty dwells.; owner, Wm. H. Messick, 331 Tasker St.
Tree St., n. and s. w. Second St., 31 two-sty dwells.; owner, Benj. F. Slack, 712 Tree St.
Montgomery Ave., w. s. n. Belgrade St., two-sty dwell.; owners, Jas. Macauley & Son, 1328 East Montgomery Ave.
Clarence St., s. s. s. Humboldt St., n. s. e. Twenty-sixth St., dwell.; contractor, Wm. F. Albrecht, 2341 North Twenty-ninth St.
Venango St., two-sty dwell.; contractor, Jas. H. Duff, s. e. cor. Ninth and Venango Sts.
Wisteria St., s. e. cor. Miller St., 3 two-sty dwells.; contractor, Jas. Hillyer, 56 Mechlin St.
Herman St., n. s. e. Main St., 4 two-sty dwells.; contractors, T. W. Wright & Son, 7 Harvey St.
Carter St., s. s. n. Evans St., three-sty dwell.; contractors, T. W. Wright & Son, 7 Harvey St.
Elwood St., No. 6512, three-sty dwell.; owner, R. J. Kirby, 425 Walnut St.
Wilcox St., w. s. n. Wakeling St., two-sty dwell.; contractors, R. C. Winnals & Bro., 4637 Worth St.
Jefferson St., s. s. e. Ridge Ave., two-sty dwell.; owner, Arthur Robinson, Ridge Ave. and Leverington St.
Mt. Pleasant Ave., e. Chew St., 4 three-sty dwells.; contractor, A. S. Tourison, 5541 Gerrits Ave.
Hagerman St., n. s. n. near Friendship St., 2 two-sty dwells.; contractors, Koliver Bros., 2733 Ash St.
North Broad St., No. 1609, dwell.; owner, Samuel Disston; architect, Thos. P. Lonsdale, American Life Insurance Building.
Chestnut Hill, dwell.; owner, Jas. M. Stone; architect, M. Fielding, Jr., 110 South Fourth St.
Smedley St., s. s. s. Erie Ave., 3 two-sty dwells.; owner, Chas. J. Appleton, 1645 Cort St.
Tippin St., n. s. e. Fountain St., 2 two-sty dwells.; owner, F. F. Rost, 4634 Jackson St.
Broad St., s. s. s. Susquehanna Ave., three-sty dwell.; owner, John Loughran, 2544 North Eighth St.
Knorr St., w. Fillmore St., two-sty dwell.; owner, Elizabeth Hanson, 158 East Huntingdon St.
Ridge Ave., s. s. w. Twenty-ninth St., 7 three-sty dwells.; owner, J. G. Ruff, 619 Cherry St.
McClellan St., s. w. Nineteenth St., 10 two-sty

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dwell.; owner, Jas. G. McKinney, s. e. cor. Ninth and Fernon Sts.
Somerville, Mass.—Brooks St., cor. Main St., Winter Hill, frame dwell.; owner, W. W. Coffin.
Gilmart St., frame dwell., 22' x 32'; owner, N. H. Reed; builders, Hudson & Lewis.
Stickney Ave., frame dwell., 27' x 32', with L. 13' x 20'; owner and builder, Geo. E. Ricker.
Tufts St., two frame dwells., each 19' x 27', with L. 14' x 18'; owner and builder, Israel P. Rice.
Essex St., frame dwell., 26' x 40', with L. 6' x 17'; owner, Annie L. Fletcher; builder, Wm. K. Fletcher.
Albion St., near Central St., two frame dwells., each 20' x 20', with projections; owner, Luther Reed.
South Hadley Falls, Mass.—Wm. Parfitt, Holyoke, dwell., Bardwell St.
St. Louis, Mo.—Two-sty brick dwell.; cost, \$6,500; owner, Thos. Tempel; contractor, H. F. Heinke.
Two-sty brick dwell.; cost, \$7,000; owner, E. S. Lewis; contractor, J. Low.
Two-sty brick dwell.; cost, \$4,000; owner, G. Strode; contractor, M. Kirkwood.
Two-sty brick dwell.; cost, \$2,600; owner, F. Kesh; contractors, Dreyer Bros.

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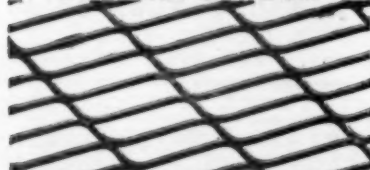
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One-st'y brick dwell.; cost, \$2,500; owner, J. M. Fleish; contractors, Paulus & Weidemüller.
Two-st'y brick dwell.; cost, \$6,800; owner, H. Conert; contractor, A. Wieden.
Two-st'y brick dwell.; cost, \$7,000; owner, Phil Krieger; contractors, Bothie & Raterman.
Two-st'y frame dwell.; cost, \$4,000; owner, Wm. Brockman; contractor, J. H. Dunlap.
Three-st'y brick dwell.; cost, \$2,500; owner, Thos. Wolf; contractor, J. A. Pachl.
Two-st'y brick dwell.; cost, \$7,000; owner, J. B. True; contractors, Anderson Bros.
Two-st'y brick dwell.; cost, \$3,000; owner and contractor, P. F. Kohmüller.
Two-st'y and mansard brick dwell.; cost, \$2,800; owner, V. Kroudi; contractor, Jno. B. Westermann.
Two-st'y brick dwell.; cost, \$4,000; owner, W. S. Floerers; contractors, J. B. Lindely & Co.
Two-st'y frame dwell.; cost, \$4,000; owner, J. W. Oliver; contractors, Rosen & Jacoby.
Two two-st'y brick dwell.; cost, \$7,000; owner and contractor, S. J. Evans.
Two-st'y brick dwell.; cost, \$12,000; owner and contractor, D. Clifford.
Two-st'y brick dwell.; cost, \$3,000; owner and contractor, B. F. Crow.
Three-st'y brick dwell.; cost, \$12,000; owner, H. Schotten; contractors, J. B. La Barge & Co.
Three-st'y brick dwell.; cost, \$2,600; owner, Mrs. Muehlberg; contractor, H. Bauer.
Two-st'y and mansard brick dwell.; cost, \$2,500; owner, Chas. Schmidt; contractors, H. Kloss & Co.
St. Paul, Minn.—Henry Bergquist, two-st'y frame dwell., Mt. Ida St., bet. Ostsege and Rivola Sts.; cost, \$5,000.
G. W. Mattson, two-st'y frame dwell., Mt. Ida St., bet. Desota and Rivola Sts.
Worcester, Mass.—T. H. Murphy, frame dwell.; cost, \$6,000.

OFFICE-BUILDINGS.

Bridgeton, N. J.—Office-building; owner, Edward M. Fithian; architect, E. W. Thorne, 1305 Arch St., Philadelphia.
Denver, Col.—*Lawrence St.*, s w cor. Sixteenth St., nine-st'y stone and pressed-brick bank and office building; cost, \$300,000; owners, People's National Bank; architects, F. E. Edbrooke & Co.; contractors, Geddis & Seerie.
New York, N. Y.—*Broad St.*, e s, bet. Pearl and Stone Sts., eight-st'y fireproof office-building; owners, Metropolitan Telephone & Telegraph Co.; architect, Cyrus L. W. Fidlitz.
New St., Nos. 38-40, and *Broad St.*, Nos. 42-44, eight and ten st'y marble, brick and iron office-building, mansard roof; cost, \$220,000; owners, Edison Gen. Electric Co., 44 Wall St.; architects, Carrere & Hastings, 3 Bowling Green.

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St. Paul, Minn.—St. Paul Union Depot Co., one-st'y iron train sheds, East Sibley St., bet. Third and Mississippi Sts.; cost, \$11,600.

STABLES.

New York, N. Y.—*West Twenty-first St.*, No. 332, three-st'y brick stable, tar and gravel roof; cost, \$8,000; owner, Thomas Orr, 215 West Fifteenth St.; architects, Thayer & Robinson, 67 Liberty St.

Seventy-third St., s s, 100' w Third Ave., four-st'y brick stable, tin roof; cost, \$12,000; owners, Kayton & Mayer, 168 East Seventieth St.; architect, Andrew Spence, 163 East One Hundred and Twenty-fifth St.

West Eighteenth St., No. 451, four-st'y brick stable, gravel roof; cost, \$12,000; owner, Ferdinand



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Philadelphia, Pa.—*Herman St.*, n s, w Hancock St., one-st'y stable; owner, J. F. Oilerstetter, 54 Herman St.

Avenue D, e Seventy-seventh St., one-st'y stable; owner, Charles Kull, Clearview.

STORES.

Chicago, Ill.—William Kratzenburg, three-st'y store and flats, Ninety-second and Superior Sts.; cost, \$16,000.

August Stoltz, two-st'y store and flats, 634 North Ave.; cost, \$3,500.

A. X. Centella, three-st'y store and flats, 38 Chapin St.; cost, \$2,500.

Peter Moreau, two-st'y store and dwell., 6629 Centre Ave.; cost, \$2,000.

John Johnson, three-st'y store and flats, 403 West North Ave.; cost, \$6,000.

John K. Brower, 4 three-st'y stores and flats, Seventy-second St. and Vincennes Ave.; cost, \$25,000.

H. C. Gardner, two-st'y store and dwell., Michigan Ave. and One Hundred and Sixteenth St.; cost, \$2,000.

William Burns, three-st'y store and flats, 2700 Portland Ave.; cost, \$8,500.

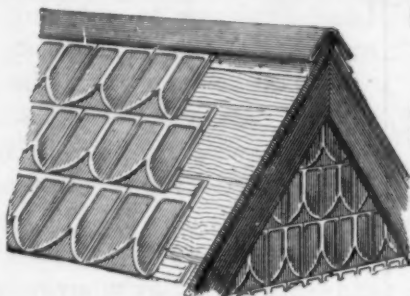
Otto Miller, two-st'y store and flats, Seventy-ninth St.; cost, \$6,100.

Iron-Work.

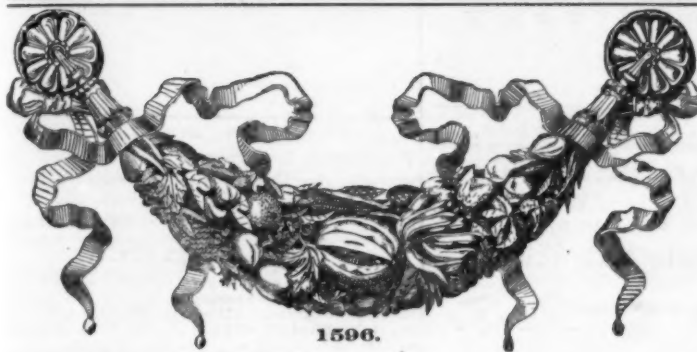
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nell Ave.; cost, \$8,400.

Cincinnati, O.—Henry Geisler, three-and-one-half-
sty store and tenement, Vine St.; cost, \$5,000;
architects, Reig & Marty.

Minneapolis, Minn.—F. G. McMillan, brick store and
flat, 423-429 First Ave., s e; cost, \$5,000.

F. G. McMillan, brick store and flat, 2 Fifth St.,
s e; cost, \$5,000.

F. G. McMillan, brick store and flat, 422-428 Cen-
tral Ave.; cost, \$5,000.

New York, N. Y.—Rose St., No. 30, six-sty brick
store-building, flat sheathing covered with tin roof;
cost, \$40,000; owner, Thomas Brennan, 347 East
Eighty-second St.; architect, Geo. Edward Harding,
40 Exchange Pl.

Philadelphia, Pa.—William St., n e cor. Belgrade
St., two-sty store and dwell.; owner, John S.
Kelley, 624 Erie Ave.

Buckins St., s s, w Edgemont St., 2 two-sty stores
and dwells.; contractors, Breininger & Ploucher,
4545 Salmon St.

North Third St., No. 403, four-sty store; con-
tractor, Jas. Bird, 1718 Lambert St.

Chestnut St., s s, w Sixteenth St., five-sty store;
contractors, J. E. & A. L. Pennock, 305 Walnut St.

Somerville, Mass.—Day St., frame store, 15' x 40';
owner, Geo. D. Wildes; builder, John Stackpole.

Somerville Ave., bet. Hawkins St. and Union Sq.,
one-sty frame store, 15' x 24'; owner, Patrick Raf-
ferty; builders, Gillis Bros.

St. Louis, Mo.—Brick store; cost, \$37,000; owner,
D. Crawford; contractors, Anderson Bros.

Two-sty brick store and dwell.; cost, \$7,000;
owner, Geo. Flint; contractor, J. Chaiwick.

Two-sty brick store and dwell.; cost, \$4,500;
owner, A. Haweager; contractor, J. W. Riley.

TENEMENT-HOUSES.

Minneapolis, Minn.—P. L. Hatch, brick tenement,
60-68 Eleventh St., s; cost, \$40,000.

New York, N. Y.—One Hundred and Fifty-third
St., s s, 175' w Tenth Ave., four-sty brick tenement,
tin roof; cost, \$12,000; owner, Otto Meurer, One
Hundred and Fifty-third St. and Tenth Ave.

BUILDING INTELLIGENCE.

St. Louis, Mo.—Two-sty brick tenement; cost,
\$3,500; owner, Albert Schwartz; contractor, H.
Vodenberg.

THEATRES.

St. Paul, Minn.—Jacob Litt, Grand Opera-house,
West Sixth St., bet. St. Peter and Wabashaw Sts.;
cost, \$75,000.

WAREHOUSES.

St. Paul, Minn.—J. Firestone, three-sty frame
warehouse, New Combe St., bet. East Seventh and
Railroad Sts.; cost, \$8,500.

MISCELLANEOUS.

Buffalo, N. Y.—Mr. Wm. H. Archer (late of Curtis
& Archer, architects, Fredonia, N. Y.) and Mr.
M. M. Johnson (late Falkner & Johnson, architects,
Buffalo, N. Y.) have formed a partnership under
the name of "Johnson & Archer," architects, No. 9
German Insurance Building.

Chicago, Ill.—A. Cullender, one-sty foundry, 10-14
North Rockwell St.; cost, \$10,000.

McGraw & Muller, one-sty carousal, 140-153
Thirty-ninth St.; cost, \$8,000.

W. B. Rogers Elevator Co., one-sty elevator,
Robey St., near Blue Island Ave.; cost, \$10,000.

Cincinnati, O.—Herman Luckman, two-sty cold
storage, Carlisle Ave.; cost, \$20,000; architect, Otto
C. Woolf.

Philadelphia, Pa.—Wingohocking St., n s, w
Twentieth St., one-sty greenhouse; contractor, J.
D. Thompson, 40 Seymour St.

Warren St., n s, w Thirty-ninth St., two-sty
patrol-house; contractors, R. C. Ballinger & Co.,
Lucas Building.

Cherry St., No. 922, engine and boiler house; con-
tractor, Lewis U. Bean, 2030 Vine St.

Charles St., w s, s South St., four-sty storehouse;
contractors, Geo. F. Payne & Co., 401 South Juniper
St.

York St., n s, w Twenty-third St., two brick
sheds; contractor, C. C. Haines, Fifth and Chestnut
Sts.

J. G. & T. DIMOND,
Architectural Iron - Works.

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95 Liberty Street**THE HENRY-BONNARD BRONZE CO.**

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10th Aves., New York. Colossal Statuary.**SOUTH BROOKLYN****RUST PROOF WROUGHT-IRON AND STEEL WORKS.****GESNER PROCESS.**Latest, most perfect and cheapest, converting body
of surfaces treated into a Double Carbide of Iron and
Hydrogen. Does not scale. Does not alter dimen-
sions. Architectural Iron, Art Hardware, etc.,
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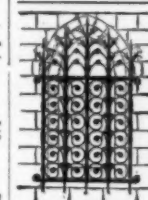
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WM. R. PITT,

83 Reade Street, New York.

BUILDING INTELLIGENCE.

Rochester, N. Y.—Plans are prepared and work
will be commenced soon on a seven-sty fireproof
building on North Paul St., cor. Division St.; cost,
\$135,000; owners, Sibley, Lindsay & Carr; architect,
J. Foster Warner.

There is a strong probability of the Chamber of
Commerce building a building to cost from \$250,000
to \$300,000 the coming season.

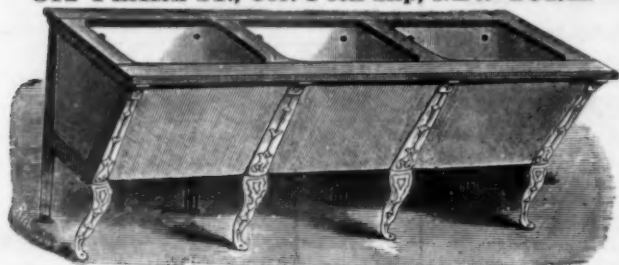
St. Louis, Mo.—Two-sty brick ice plant; cost, \$18,-
000; owner and contractor, W. J. Lemp.

PROPOSALS.

February 17, 1890. Sealed proposals will be received
at the office of the Supervising Architect, Treasury
Department, Washington, D. C., until 2 o'clock P. M.
on the 10th day of March, 1890, for all the labor and
materials required to put in place all the brick and
terra-cotta floor arches and covering for iron columns,
cement floors, wood floor strips, concrete filling, etc.,
required for the United States Court-House and Post-
Office building at Pittsburgh, Pa., in accordance with
the drawings and specification, copies of which may
be had on application at this office or the office of the
Superintendent. Each bid must be accompanied by a
certified check for \$100. The Department will reject
all bids received after the time fixed for opening the
same; also, bids which do not comply strictly with all
the requirements of this invitation. JAS. H. WIN-
DRIM, Supervising Architect. 740

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STEWART CERAMIC COMPANY,
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CELEBRATED
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STATIONARY
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The only Perfect Sanitary
Tubs now in Ex-
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VERY STRONG.
No seams to open. Ab-
solute cleanliness se-
cured for all time.
WELL GLAZED.

SHOWING THREE TUBS SET UP. Will not absorb, leak or decay
The only Solid White Crockery Wash-tub ever made in the world. Do not buy imitations until you see
the genuine "Morahan's Patent," stamped on the front of every tub. Wash-board and Soap-cup moulded
in every set. Will outlast any house.
Solid White Crockery Sinks, comprising Butler's Pantry, Kitchen, Slop, etc.,
Made of same material as the tubs. Very strong, well glazed, no labor required to keep clean.
LIBERAL TERMS TO THE TRADE. SEND FOR PRICE-LIST AND CATALOGUE.

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Displaces all others wherever introduced — **SINKS** — Painted, Galvanized, Enameled
Send for Descriptive Circular and Prices to
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PLUMBING GOODS AND SANITARY APPLIANCES.

Nickel Iron and Pure Nickel Bath Tubs, Pantry Sinks, etc.

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LAUNDRY MACHINERY, HOTEL and INSTITUTION WORK
Carefully Handled.

[ESTABLISHED 1861.] OAKLEY & KEATING, 40 Courtlandt St., NEW YORK.
Send for Catalogue.

PROPOSALS.

February 15, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 15th day of March, 1890, for all the labor and materials required in the erection and completion of the United States Court-House, Post-Office, etc., building at Winona, Minn. (heating apparatus and plumbing not included), in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$500. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. 740

METAL-WORK. [At Chandleur Light, La.]
OFFICE OF THE LIGHT-HOUSE ENGINEER,
EIGHTH DISTRICT,
NEW ORLEANS, LA., February 1, 1890.
Proposals will be received at this office until 12 o'clock, noon, of Tuesday, the 4th day of March, 1890, for furnishing the materials and labor of all kinds necessary for the completion and delivery of the metal-work for a keeper's dwelling for Chandleur Light-House, La.
Plans, specifications, forms of proposals 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.
W. L. FISK,
Captain of Engineers, U. S. Army, Light-House Engineer, Eighth District. 739

CEMENT. [At Boston, Mass.]
OFFICE OF U. S. LIGHT-HOUSE ENGINEER,
FIRST AND SECOND DISTRICTS,
POST-OFFICE BUILDING, ROOM 142, P. O. BOX 168,
BOSTON, MASS., February 10, 1890.
Proposals for furnishing and delivering six hundred (600) barrels of Portland cement will be received at this office until 12 o'clock, noon, Friday, February 28, 1890.
Specifications and blank forms of proposal will be furnished on application at this office, or by letter addressed to P. O. Box 168, Boston, Mass.
The right is reserved to reject any or all bids and to waive any defects.
W. S. STANTON,
Major of Engineers, U. S. A., Engineer First and Second Light-House Districts. 739

LIGHT-TOWER. [At Diamond Shoal, N. C.]
OFFICE OF THE LIGHT-HOUSE BOARD,
WASHINGTON, D. C., January 9, 1890.
Proposals will be received at this office until 12 o'clock, noon, of Tuesday, the 1st day of July, 1890, for the design, the specifications, the complete construction and equipment and the temporary maintenance of a light-tower on Diamond Shoal, off Cape Hatteras, N. C.
By an act of Congress, the total cost of the light station shall not exceed the sum of \$500,000.
Specifications embodying the requirements of the structure, forms of proposals 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.
DAVID B. HARMONY,
Rear Admiral, U. S. Navy, Chairman. 740

PROPOSALS.

FURNITURE.
TREASURY DEPARTMENT,
February 4, 1890.
Sealed proposals will be received at this Department until 2 o'clock P. M., Tuesday, March 4, 1890, for manufacturing, delivering and placing in position in United States buildings east of the Rocky Mountains, from time to time as required, certain articles of furniture.
Drawings and specifications and blank form of proposal can be obtained upon application to this office.
The Department reserves the right to reject any and all bids, and to waive defects.
Proposals should be addressed to the Secretary of the Treasury and indorsed "Proposals for Furniture for Buildings East of the Rocky Mountains."
GEORGE S. BATCHELLER,
Acting Secretary. 739

LIGHTING APPARATUS. [Near Newport, Ky.]
QUARTERMASTER'S OFFICE,
HIGHLANDS, KY., February 1, 1890.
Sealed proposals, in triplicate, subject to the usual conditions, will be received at the office of the Assistant Quartermaster, U. S. Army, Newport, Ky., until 11 o'clock A. M., Monday, March 3, 1890, and then opened, for furnishing and setting up complete about twelve gasoline lighting-machines for lighting the buildings at the new post, near Newport, Ky.
Preference given to articles of domestic manufacture, conditions of quality and price (including in the price of foreign manufacture the duty thereon) being equal.
The United States reserves the right to reject any or all proposals.
Blank proposals, specifications and instructions will be furnished upon application at this office.
Envelopes containing proposals should be marked "Proposals for Lighting Apparatus," and addressed to A. H. YOUNG,
Captain and Assistant Quartermaster, U. S. Army. 739

February 13, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 11th day of March, 1890, for all the labor and material required to fix in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus required for the United States Court-House, Post-Office, etc., building at Abingdon, Va., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. 740

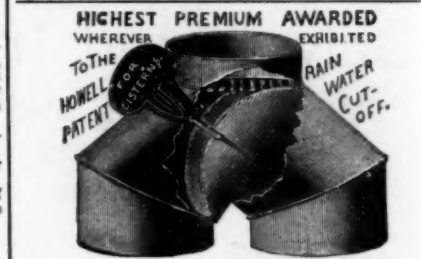
February 7, 1890. The time for receiving and opening the proposals for the labor and materials required for the stone and brick masonry of the superstructure of the United States Custom-house, Post-office, etc., building at Port Townsend, Washington, is hereby extended until 2 o'clock P. M. on the 13th day of March, 1890. JAMES H. WINDRIM, Supervising Architect.

February 7, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 4th day of March, 1890, for furnishing and putting in place complete one hydraulic passenger

COL. GEORGE E. WAR-
ING, JR., C. E. etc., in his recent work on Sewerage and Land Drainage, in speaking of traps liable to siphonage, says: "the best remedy would be to supply the defective traps at their summits with McClellan's Mercury Seal-Trap Vent, a perfectly safe device, of little cost, simple and easy of application, and sure to supply air when needed."

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SEALS WITH OR WITHOUT WATER
CUDELL'S PATENT SEWER-GAS AND BACK-WATER TRAP,
For Wash-Bowls, Sinks, Bath and Wash-Tubs.
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PROPOSALS.
elevator for the United States Post-office, etc., building at St. Joseph, Mo., in accordance with the specification and drawings, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect. 739

DIKE. [Near Albany, N. Y.]
UNITED STATES ENGINEER OFFICE,
ROOM 62, ARMY BUILDING,
NEW YORK, N. Y., February 3, 1890.
Sealed proposals, in triplicate, will be received at this office until 12 o'clock, noon, March 3, 1890, for the construction of 2,950 feet, more or less, of a timber and stone dike, in the Hudson River at Mull's Plat, twelve miles below Albany, N. Y.
The attention of bidders is invited to Act of Congress approved February 26, 1885, and February 23, 1887, Vol. 23, page 332 and Vol. 24, page 414, Statutes at Large.
For specifications, blank forms and all information apply to the undersigned.
G. L. GILLESPIE,
Lieutenant-Colonel of Engineers. 739

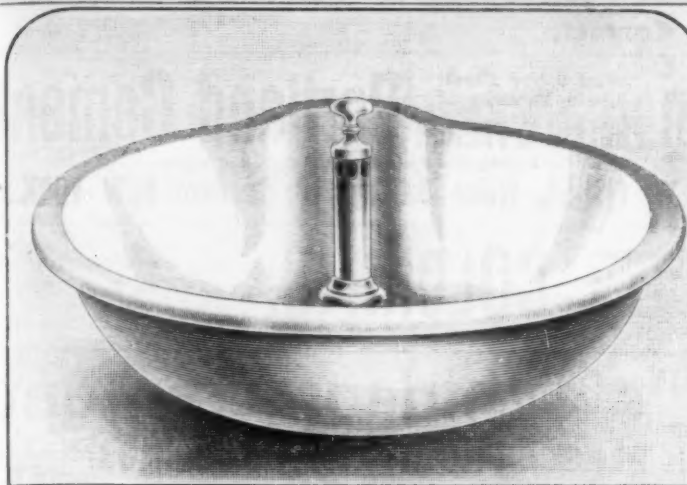


Plate 843—G. The "SIMPLEX" Recess Basin and Waste. (Patented.)

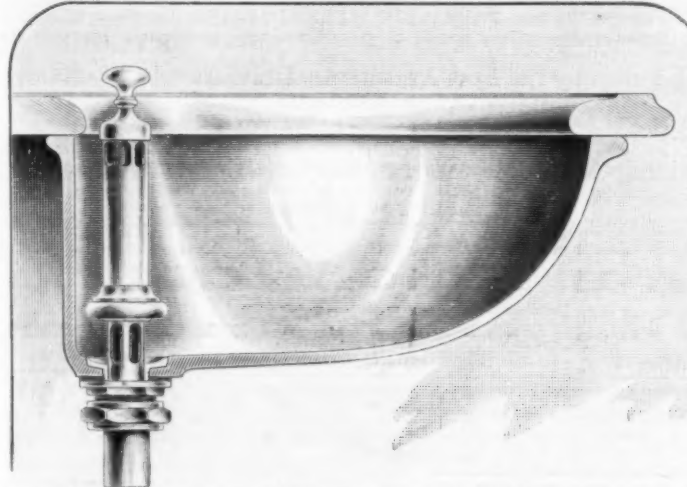


Plate 844—G. Cross Section of "Simplex" Recess Basin, showing Waste raised as when water is being let out of Basin.

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[See Alphabetical Index on page VII for Pagination.]

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- Conductors (Water).**
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Norton Door-Check and Spring Co., Boston.
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- Heating Apparatus (Steam).**
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- Heating Apparatus (Steam).**
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- Iron-Work (Architectural).**
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- Iron-Work and Construction.**
Troy Laundry Machinery Co., Troy.
- Iron-Work and Construction.**
Mahogany.
- Iron-Work and Construction.**
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Unexcelled Paper Tube Co., New York. (mon)
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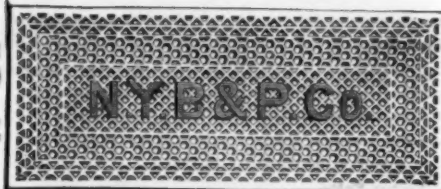
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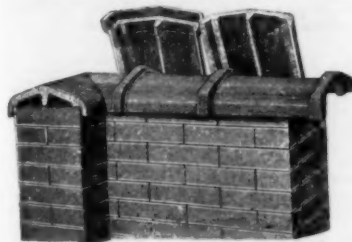
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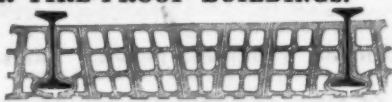
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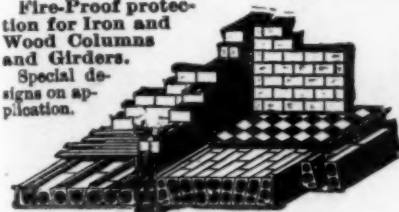
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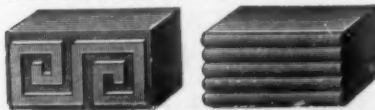
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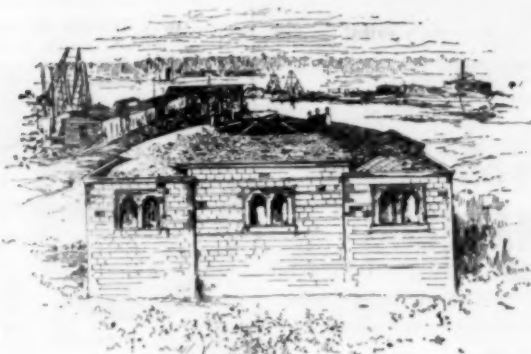
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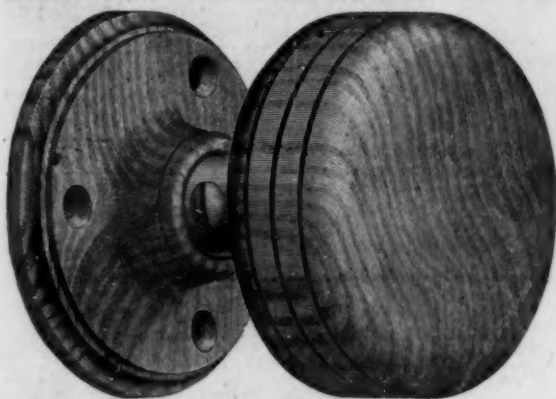
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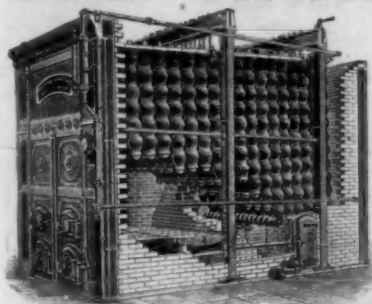
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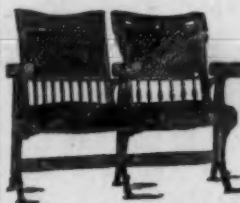
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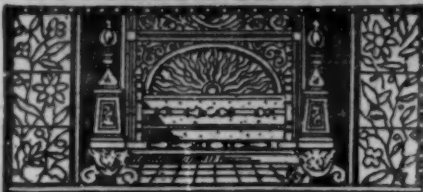
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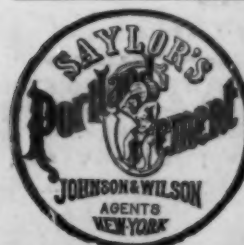
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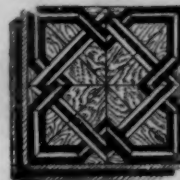
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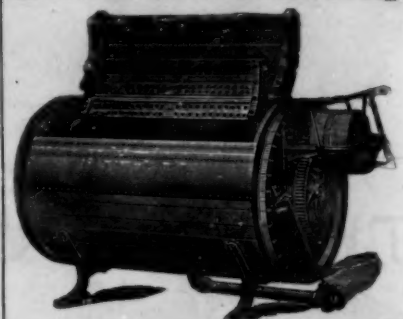
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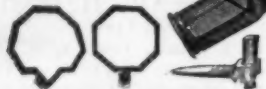
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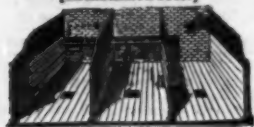
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Reasons why you should use them: It costs less than
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crews; can be put up in or taken out in less than one
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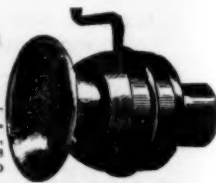
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Reported for the American Architect and Building News.

	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
BRICK. — P. M.				
Common: Cargo afloat.				
Pale.	3 00 @ 3 50	Eastern	Building Brick	Sq. Hard @ 12
Jersey.	5 75 @ 6 75	9 00 @ 10 00	@ 6 50	" @ 9 00
Long Island.		Bay State Hard		Salm n @ 6 50
Up River.		9 75		Sq. " @ 9 00
Haverstraw Bay 2nd.	6 75 @ 7 00	Domestic Com.	Indiana Pressed	Light Stretchers
" 1st.	7 25 @ 7 50	9 50 @ 10 00	14 00 @ 20 00	@ 12 00
Hollow.	@ 13 00	Domestic Face	St. Louis Fronts	Medium " @ 14 00
Fronts.		20 00 @ 22 00	@ 27 00	Red " @ 15 00
Croton, Brown.	14 00 @ 15 00	Philadelphia		Dark " @ 15 00
" dark.	15 00 @ 16 00	40 00 @ 45 00		Frosted @ 15 00
" red.	15 00 @ 16 00	Phila. mould		22 00 @ 26 00
Chicago pressed (Anderson).		50 00 @ 60 00		Best Paving
Chicago Moulded.				@ 16 00
Baltimore.	7 00 @ 41 00	Anderson		second " @ 14 00
Philadelphia.	@ 22 00	14 00 @ 32 00		Taird " @ 13 00
Trenton.	@ 22 00			Dom. { @ 65
Milwaukee.	@ 22 00			@ 85
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.	1 20 @ 1 25	1 20 @ 1 40	Not Sold.	1 30 @ 50
Louisville.		Brooks, S. & Co	1 05 @ 1 30	B & S.E. 275 @ 300
Utica, Akron, Buffalo, Milw'kee.	Not sold.	2 60 @ 3 00	1 00 @ 1 25	2 85 @ 3 25
Portland, English (Gibbs).	2 50 @ 3 00	2 60 @ 3 00	2 75 @ 3 25	2 85 @ 3 15
" (K. B. & S.).	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" (Burham).	2 25 @ 2 50	2 60 @ 3 00	4 00 @ 3 25	2 85 @ 3 15
" (White's).	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" French (Lafarge).	2 85 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" German (Alsen).	3 00 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor
" (Fowar).	3 00 @ 3 25	3 00 @ 3 50	2 50 @ 3 20	2 50 @ 2 75
" (Vorwobler).	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 75 @ 2 85
" (Lagerdofer).	2 50 @ 2 90	Cleopatra	@ 3 40	
" (Dyckerhoff).	2 90 @ 3 25	2 55 @ 3 00	2 75 @ 3 00	2 50 @ 2 75
" (Hanover).	2 50 @ 3 00	3 00 @ 3 50	3 25 @ 3 50	3 00 @ 3 25
" Stettin (Anchor).	2 85 @ 2 85		Not Sold.	2 75 @ 2 85
" American (Saylor's).	2 15 @ 2 45	2 15 @ 2 50	2 75 @ 3 00	
Roman.	2 75 @ 3 00		2 75 @ 3 25	2 50 @ 2 75
Keene's coarse.	5 15 @ 6 50		6 00 @ 7 00	3 00 @ 3 50
" superfine.	9 25 @ 10 25		9 @ 10 50	6 50 @ 7 00
Lime:				8 00 @ 9 00
Lime of Tel.	3 50 @ 4 00			
Hydraulic Lime.	@ 1 45	@ 1 35	Not sold.	White Lime
Chicago Lime in bulk.		St. John 1 00	55 @	25 @ 30 @ bush
Wisconsin.	@ 1 10		60 @	White Mash
Rockland and Rockport, (Com.).	@ 1 00	@ 1 05	Not sold.	1 25 @ 1 50
Rockland and Rockport, finish.	@ 1 20	@ 1 20	Not sold.	1 00 @ 1 00
Kelley Island Lime, finish.	@ 1 20		100 bulk, 75c.	
State, com. cargo rates (nom.).	@ 85		Not sold.	
State, finishing.	@ 1 10		Not sold.	
Plaster of Paris (alcined).	1 30 @ 1 35	1 85 @ 2 00	1 85 @ 1 90	Not sold.
" (casting).	1 30 @ 1 35	2 25 @ 2 25	1 85 @ 1 90	Not sold.
Hair (Cattle) @ bush.	12 @ 15	25 @ 30	30 @ 35	1 50 @ 2 25
" (Goat).	22 @ 25	30 @ 30	30 @ 35	1 75 @ 2 50
Sand, @ load.	1 00 @ 1 25	1 75 @ 1 90	@ 60	30 @ 35
STONE. (P cubic foot, rough.)				@ 1 50
Granite: (Maine)				
Limestone:				
Bedford.	45 @ 1 25	@ 90		50 @ 60
Joliet.	@ 1 60	95 @ 1 00		75 @ 90
Lamont.				Richmond
Serpentine.				75 @ 1 50

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Mortar Colors.

(Wholesale Prices.)

(Prices to Builders and Contractors.)

Black, brown, buff 7 lb.	12 1/2			
Colorful 7 lb.	2 1/2			
Red 7 lb.	3			
White 7 lb.	1 75			
Foundation:				
Dimension 500 7 ton		500	200	500
Block 400 7 perch		400	100	400
Rubble 125 7 150		125	50	125
Bluestone: (7 sq. ft.)				
Sidewalk 50 500		50	100	50
Planned 50 600		50	100	50
Sandstone:				
Longmeadow 50		50	100	50
Kilbo 50		50	100	50
Brown (Connecticut) 1 00		1 25	1 45	1 50
Amherst 90 95		90	100	90
Berea Ohio 75 100		80	90	75
Berlin 75 100		80	90	75
Bellefonte 80 125		125	135	125
New Brunswick (Dorchester) 80 100		75	90	80
Queen 105		105	200	105
Carlisle, English 105		105	105	105
Corse Hill (Scotch) 105		105	105	105
Marble: (7 cu. ft.)				
Lee, Mass. 1 75		1 75	2 50	2 00
Rutland, white and blue 3 00		3 00	3 00	3 00
Sutherland Falls 1 25		1 75	2 00	1 75
Glens Falls, black 1 25		1 75	2 00	1 75
Italian, blue-veined 1 25		1 75	2 00	1 75
" Sienna 1 25		1 75	2 00	1 75
Tennessee, red 1 25		1 75	2 00	1 75
" Knoxville 1 25		1 75	2 00	1 75
Pennsylvania, blue 1 25		1 75	2 00	1 75
Vermont, white 1 25		1 75	2 00	1 75
Slate: Roofing (7 square)				
" green 5 00		5 00	6 00	5 00
" unfading 5 00		5 00	6 00	5 00
" purple 5 00		5 00	6 00	5 00
" red 4 25		4 75	5 25	4 25
" black, Lehigh 4 25		4 75	5 25	4 25
" "Chapmans" 4 25		4 75	5 25	4 25
" Unfading Black, Monson, Me. 5 50		8 00	5 50	8 00
Tile, Am. 7 1/2				
N. Poach Bottom, warranted unfading 7 1/2				
PAINTS. (In oil, 7 lb.)				
White lead, Am. 7 1/2				
" Zinc 7 1/2				
Red lead, Am. 7 1/2				
" Venetian 7 1/2				
" Vermilion 7 1/2				
Red Indian, Eng. 7 1/2				
Yellow Ochre 7 1/2				
" Chrome 7 1/2				
Green (chrome) 7 1/2				
Green, Paris 7 1/2				
Black, lamp 7 1/2				
Blue, ultramarine 7 1/2				
Oil, linseed, (raw) 62				
" "boiled" 62				
Turpentine 41				
Varnish, coach 1 50				
Shellac 2 50				
Putty 2 50				
Whiting 7 1/2				
Paris white, (Eng.) 1 30				
Litharge, Am. 14				
Sienna (burnt) 14				
Umber 14				
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought.) 2 85				
10d. common 2 80				
Shingle 3 35				
Lath 4 85				
Finishing nails according to size. (For casing nails add 75c. per leg.)				
Butts: 4"x 4" (7 doz. pairs) 1 00				
Finish 1 50				
Japaned 1 50				
Acorn, Japaned 1 50				
Ball Tip, Boston Finish (7 pair) 65				
Bronze metal 1 90				
Brass (10" supboards) 10				
Ebony 10				
Apple wood 10				
Knobs: (7 Set.)				
Mineral, best 8				
Lava 8				
Hemlock 17				
Porcelain 10				
Glass, solid 50				
Glass, silvered 88				
Bronze metal 50				
Brass 50				
Solder:				
Sheet Lead 6				
Lead Pipe 6				
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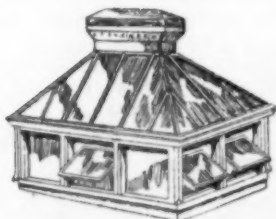


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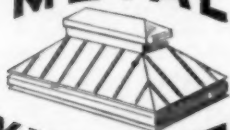
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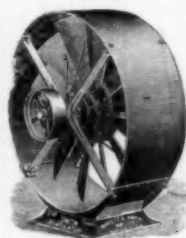
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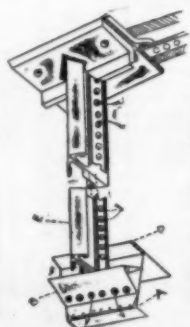
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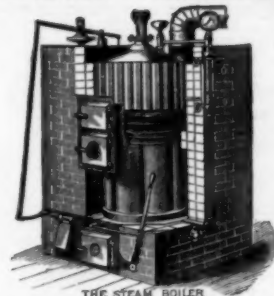
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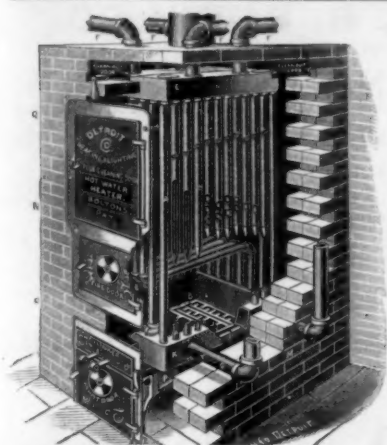


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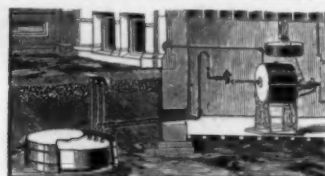
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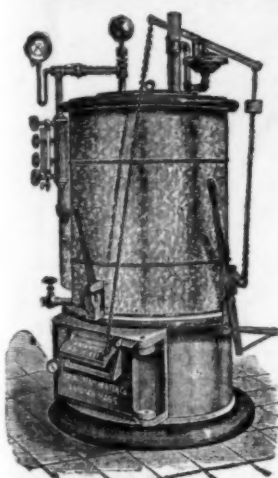
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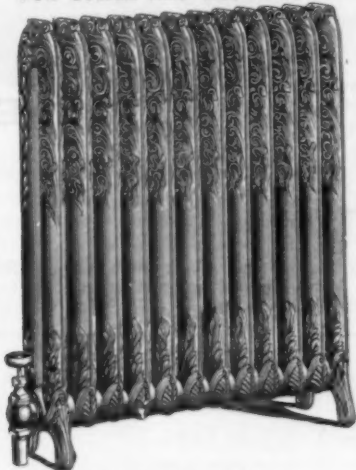
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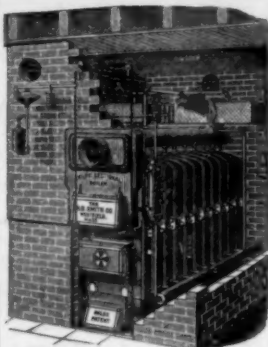
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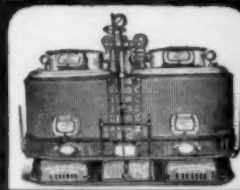
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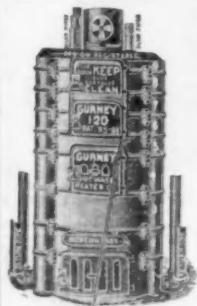
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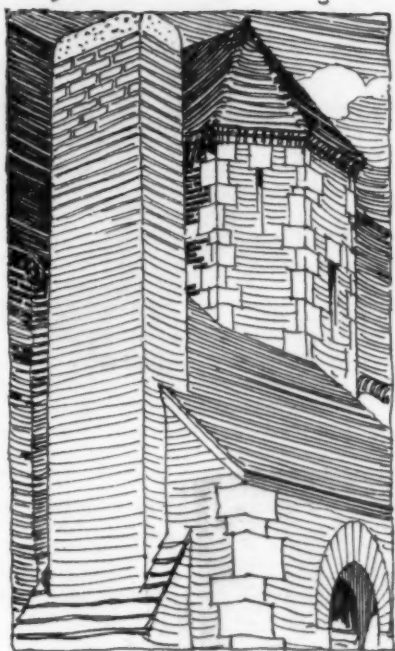
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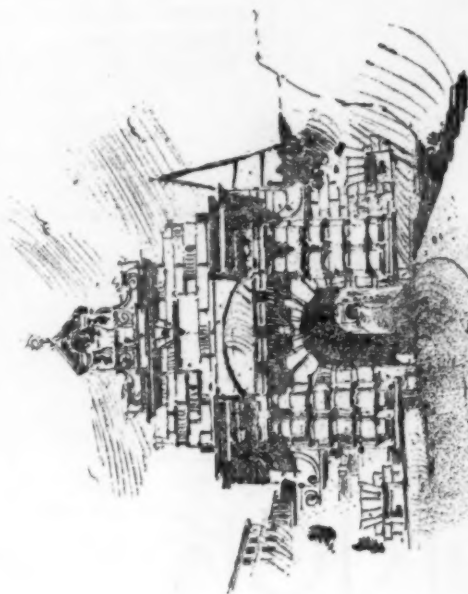


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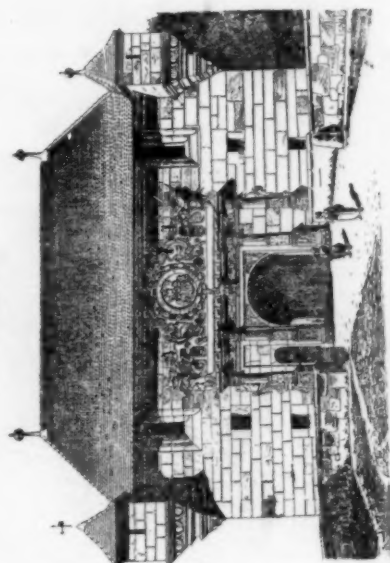
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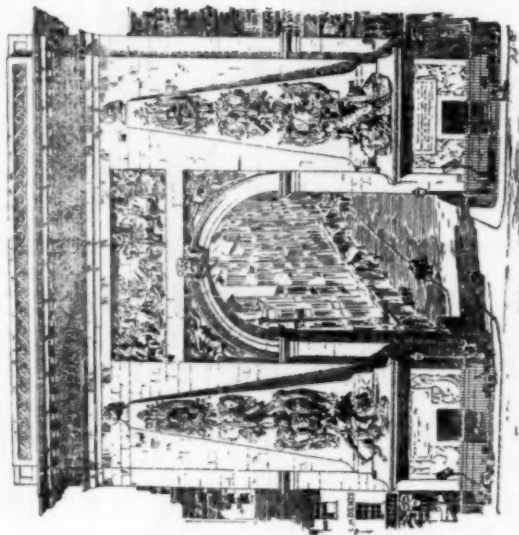
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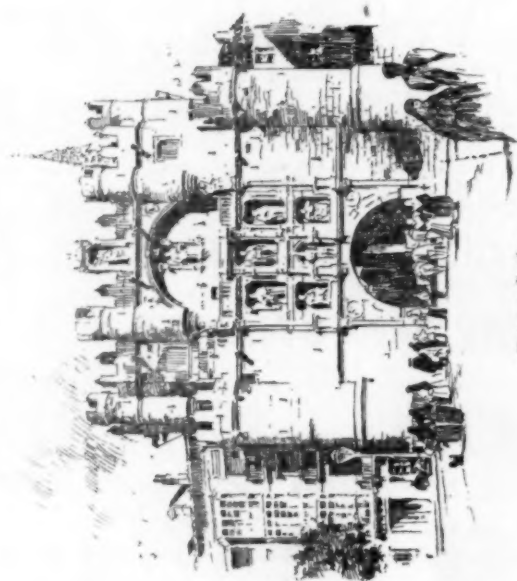
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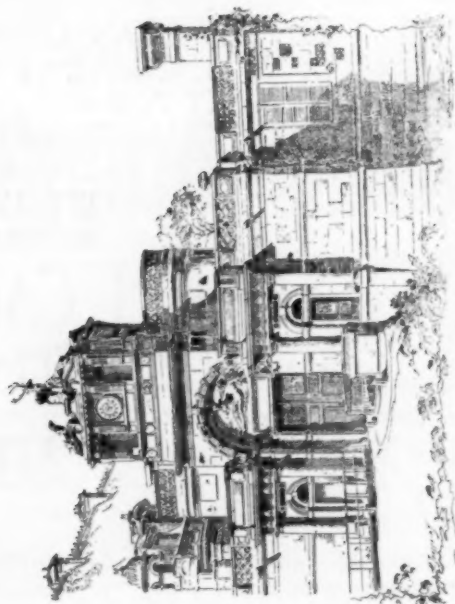
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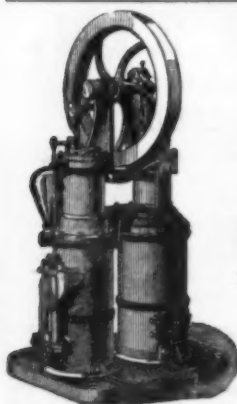
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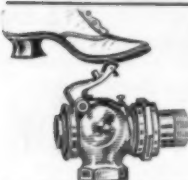
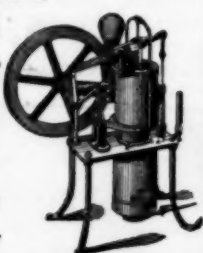
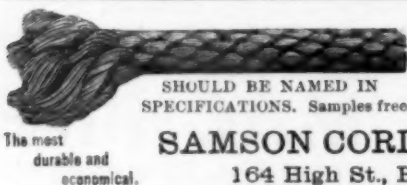
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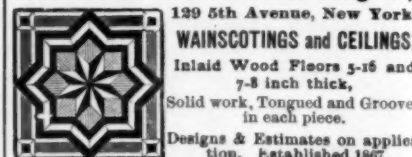
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New Advertisements.

MURPHY & CO. (Newark, N. J.), Varnish. Page xlii.
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H. M. HANSEN (Chicago, Ill.), Chimney Tops. Page xvi.
PARSONS & SONS CO., LTD. (Flushing, N. Y.), Plants. Page xv.

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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.

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[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.]

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Boston, Mass.—State St., Nos. 124-128, Ward 6, remodeling store front; owner, N. P. Lovering; builder, Henry D. Hunt.



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BUILDING INTELLIGENCE.

Washington St., cor. Court St., Ward 10, repair damage by fire; owner, J. M. Sears.
Summer St., Nos. 184-190, Ward 2, alter brick hotel to four dwellings; owner, Wm. P. Kuhn; builder, H. Roberts.

Chicago, Ill.—Chicago Sugar Refining Co., six-st'y addition, Taylor and Beech Sts.; cost, \$15,000.
Leach & Son, one-st'y addition, 430-434 Wabash Ave.; cost, \$5,000.

H. P. Gormally, three-st'y addition, 71 North Sheldon St.; cost, \$1,200.
Northampton, Mass.—J. N. Leonard & Co., three-st'y frame addition to mill.

Philadelphia, Pa.—Locust St., s. s. w. Thirty-ninth St., one-st'y addition to church; contractors, A. H. Williams & Son, 402 Tenor Pl.
Westminster St., cor. Belmont Ave., one-st'y addition to church; Jesse P. Danfield, Belmont and Lancaster Aves.

Park Ave., Nos. 2437-29, two new fronts; contractors, Stephen Morris & Son, 123 North Sixth St. Sanson St., No. 738, front alteration; contractor, Wm. J. Simpson, 1351 South Eighth St.
Dauphin St., No. 1416, one-st'y addition to shop; contractor, Henry G. Schultz, 2633 Germantown Ave.

Eleventh St., n. w. cor. Sanson St., alteration and addition; contractor, Jno. S. Sanders, 2140 North Eleventh St.
Lancaster Ave., s. s. w. Thirty-second St., front alteration; contractors, Decker Bros., 3503 Lancaster Ave.

Tioga St., n. s. w. Kensington Ave., 2 two-st'y alterations and back building; owner, J. C. stackhouse, 2691 D St.
Twenty-second St., w. s. n. Race St., one-st'y addition to shop; owner, Patrick Hickey, 210 North Twenty-second St.

Eighth St., n. w. cor. Cherry St., front and interior alterations; contractor, Jas. Hood, 213 New St.
Thirteenth St., No. 1424, front and interior alterations; owner, John Simon, 2642 North Eleventh St.
Broad St., n. e. cor. Susquehanna Ave., interior alteration; owner, C. H. Schroeder, at place.

Germantown Ave., No. 3017, interior alteration; contractor, A. S. Siman, Springfield Ave.
North Second St., No. 1317, alteration and bay window; contractor, E. S. Davis, 2913 Diamond St.

Amber St., No. 2412, front alteration; contractor, Aug. Schreiber, 2030 Howard St.
Twenty-third St., e. s. n. Oxford St., one-st'y addition to engine-house; contractors, John Brown & Son, Seventeenth and Oxford Sts.

APARTMENT-HOUSES.

Chicago, Ill.—Eugene Geissler, three-st'y flats, 711-715 Wood St.; cost, \$14,000.
A. Hughes, 2 three-st'y flats, 1234-1236 Monroe St.; cost, \$10,000.

Geo. J. Shannon, three-st'y flats, Seventy-ninth and Dickey Sts.; cost, \$10,000.

E. M. Jagger, 6 two-st'y flats, 1468-1478 Warren Ave.; cost, \$25,000.
William Krouse, three-st'y and basement flats, 177 Jay St.; cost, \$3,500.

V. Volbeck, two-st'y and basement flats, 800 Van Buren St.; cost, \$2,200.
Geo. S. Bridge, two-st'y flats, 427 Forty-first St.; cost, \$5,000.

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F. Englehardt, two-st'y flats, 145 Hudson Ave.; cost, \$1,000.

John Zalend, three-st'y flats, 835 Allport Ave.; cost, \$4,500.

A. Yurman, two-st'y flats, 140 Hastings St.; cost, \$2,000.

Ole Johnson, three-st'y flats, 28 Snell St.; cost, \$5,000.

Chas. J. Kline, two-st'y and basement flats, 405 North Lincoln St.; cost, \$3,000.

Wm. Crawley, two-st'y flats, 484 Evans Ave.; cost, \$6,000.

L. Circaski, two-st'y flats, 5423 Indiana Ave.; cost, \$6,000.

John Kulien, two-st'y flats, 5125 Laffin St.; cost, \$1,400.

A. Soudermier, two-st'y flats and store, 4832 Ashland Ave.; cost, \$3,000.

F. W. Baske, two-st'y flats, 4417 Lincoln Ave.; cost, \$1,000.

Jacob Kowalski, two-st'y flats, Escanaba and Eighty-fourth Sts.; cost, \$1,500.

Fred Ferity, two-st'y and basement flats and store, 571 Clybourn Ave.; cost, \$3,500.

John Gibbons, two-st'y flats, Fifty-first St., near Morgan St.; cost, \$1,400.

Y. Keul, two-st'y and basement flats, 5208 School St.; cost, \$1,400.

Michael Smith, two-st'y and basement flats, 1144 Hastings St.; cost, \$4,000.

M. S. Patchen, two-st'y flats, 6622 Green St.; cost, \$1,100.

Thos. Mitchell, 2 two-st'y and basement flats, 5462-5464 Madison Ave.

O. W. Peterson, two-st'y and basement flats, 1453 Roscoe St.; cost, \$2,200.

H. Deckmeyer, two-st'y flats, 937 Rebecca St.; cost, \$1,900.

Chas. Wickland, two-st'y and basement flats, 3226 Hanover St.; cost, \$2,500.

New York, N. Y.—Madison St., No. 173, five-st'y brick flat, tin roof; cost, \$20,000; owners, Fay & Stacom, 337 Pleasant Ave.; architect, Charles Rents, 153 Fourth Ave.

Willet St., No. 99, five-st'y brick flat, tin roof;

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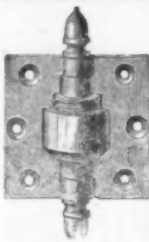
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cost, \$20,000; owners, Fay & Staecom, 337 Pleasant Ave.; architect, Charles Keutz, 153 Fourth Ave.
Second Ave., No. 2292, five-sty brick flat, tin roof; cost, \$16,000; owner, Henry Turno, 2292 Second Ave.; architect, William Graul, 215 Bowery.
Broome St., No. 302, five-sty brick flat, tin roof; cost, \$20,000; owners, Fay & Staecom, 337 Pleasant Ave.; architects, Rentz & Lang, 153 Fourth Ave.
West Twenty-first St., No. 330, five-sty brick flat, tin roof; cost, \$22,000; owners, Drought & Carew, 508 West Fifty-first St., 249 West Forty-second St.; architect, M. V. B. Ferdon, 272 West Thirty-fourth St.

One Hundred and Nineteenth St., s. s. 175 w First Ave., 2 five-sty brick flats, tin roofs; cost, \$42,000; owner, Ernest C. Keri, 412 Pleasant Ave.; architect, Edward Wenz, 1491 Third Ave.

East One Hundred and Nineteenth St., Nos. 318-320, 2 five-sty brick flats, tin roofs; cost, \$36,000; owners, John & James Shea, 125 and 320 East One Hundred and Nineteenth St.; architect, J. J. Freeland, 1731 Washington Ave.

One Hundred and Twenty-first St., n. s. 95 e Manhattan Ave., 4 five-sty brick flats, tin roofs; cost, \$80,000; owner, Henrietta Behrens, 16 East One Hundred and Fourteenth St.; architect, Edward Wenz, 1491 Third Ave.

East Fifty-third St., No. 217, five-sty brick flat, tin roof; cost, \$29,000; owner, James Walsh, 350 East Fifty-sixth St.; architect, Franklin Baylies, 52 Bible House.

Rivington St., s. e. cor. Mauglin St., five-sty brick flat, tin roof; cost, \$18,000; owner, Dierich Sackman, 76 Mauglin St.; architect, Herman Horenburger, 99 East Third St.

Fifty-eighth St., n. s. 225 w Sixth Ave., six-sty brick flats, asphalt roof; cost, \$140,000; owner, R. Loforte, 135 West Eighty-first St.; architects, Hubert, Pirsson & Hoddick, 19 East Twenty-eighth St.

Ninth Ave., n. e. cor. Sixtieth St., five-sty brick flat, tin roof; cost, \$30,000; owners, Lowen & Halliday, 400 West Forty-sixth St., 1791 Ninth Ave.; architects, Herter Bros., 191 Broadway.

Broome St., Nos. 274-276, five-sty brick flat, tin roof; cost, \$30,000; owner, Otto Hildenbrand, 14-16 Vandewater St.; architect, L. Kastner, 744 Broadway.

Courtlandt Ave., five-sty brick flat, tin roof; cost, \$27,000; owner, Edward Steitler, 1051 Park Ave.; architect, Charles Stegmayer, 306 East Eighty-second St.

One Hundred and Fifth St., s. s. 45 e Madison Ave., 2 five-sty brick flats, tin roofs; cost, \$20,000; owner, John S. Scott, 4 West One Hundred and Thirtieth St.; architect, John C. Burns, 1531 Third Ave.

Fifty-ninth St., n w cor. Tenth Ave., 8 five-sty

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St. Louis, Mo.—Two-sty brick flats; cost, \$6,500; owner and contractor, John W. Reinhard.
Two-sty brick flats; cost, \$3,800; owner, F. W. Krenning; contractor, C. Grein.

CHURCHES.

New York, N. Y.—One Hundred and Sixty-third St., n. w cor. Brook Ave., five-sty brick factory; cost, \$32,000; owner, F. Kiel; architect, Chas. S. Clark.
St. Louis, Mo.—Two-sty brick factory; cost, \$4,800; owners, Hof & Blumer Stair Co.; contractor, J. P. Riechers.

One-sty brick factory; cost, \$6,500; owner, F. Fenerbacher; contractors, Paulus & Weidemeuller.

HOTELS.

Chicago, Ill.—J. S. Woolcott, five-sty hotel, Lake View Ave. and Deming Ct.; cost, \$100,000.

HOUSES.

Boston, Mass.—Idaho St., off River St., Ward 24, frame dwell., 29' x 26'; owner, Dudley Talbot; builder, A. M. Hobbs.

Unnamed St., off Puritan Ave., Ward 24, frame dwell., 29' x 28'; owner and builder, J. C. Betts.

Walter St., cor. Arundel St., Ward 24, frame dwell., 22' x 29'; owner and builder, P. M. Brown.

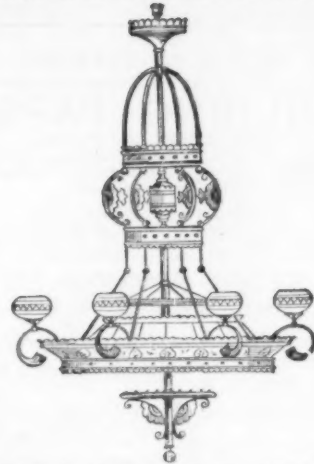
North Harvard St., near Western Ave., Ward 25, one-sty frame dwell., 18' x 30'; owner, J. Dwyer; builder, A. McDonald.

Richardson St., cor. Huntington Ave., Ward 23, frame dwell., 24' x 38'; owner, Nelson Pearson; builders, Sittig Bros.

Lincoln St., rear, near Market St., Ward 25, 2 three-sty frame dwell., flat roofs, 23' x 38'; owner, Margaret Denvir; builder, B. B. Ryan.

Continued on page xvii.]

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Christ Episcopal, Jordan, N. Y.
First Congregational, Williamstown, Mass.
First Baptist, Franklin, Ind.
Euclid Ave. Congregational, Cleveland, O.
Second Congregational, New London, Conn.
Twenty-Second St. Baptist, Louisville, Ky.
Methodist Episcopal, Chatham, N. Y.
Universalist, Titusville, Pa.
Presbyterian, Greenwich, Conn.
St. Stephen's, Worcester, Mass.
Trumbull Ave. Presbyterian, Detroit, Mich.
Methodist Episcopal, Flemington, N. J.
Jane St. M. E., New York.
First Unitarian, Deerfield, Mass.
St. Rose, Lima, N. Y.
St. John's M. E., Brooklyn, N. Y.
Methodist Episcopal, San Bernardino, Cal.
First Baptist, Columbus, Miss.
Methodist Episcopal, Ontario, Cal.
Church of the Ascension, Hamilton, Ont.
Madison Ave. Reformed, New York.
Centenary M. E., Newark, N. J.
Greenwood Baptist, Brooklyn, N. Y.
Seventh Day Baptist, Plainfield, N. J.
Zion, Greene, N. Y.
West Side Ave. Presbyterian, Jersey City, N. J.
English Lutheran, Hazleton, Pa.
Berk Church, Presbyterian, Orange, N. J.
Methodist Episcopal, Austin, Minn.
First Baptist, Johnstown, Pa.
Presbyterian Church, Horseheads, N. Y.
Methodist Episcopal, Hackettstown, N. J.
Trinity Church, Portland, Conn.
Dwight Place Church, New Haven, Conn.
First Presbyterian, Galveston, Tex.
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Tomkins Ave. Congregational, Brooklyn, N. Y.
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Asbury Memorial M. E. Church, Providence, R. I.
St. Bernard's, Raritan, N. J.
Cumberland Presbyterian, Murfreesboro, Tenn.
First Presbyterian, Englewood, N. J.
Pilgrim Congregational, Duluth, Minn.
First Congregational Church, St. Albans, N. Y.
Garland St. M. E. Church, Flint, Mich.
Summer Ave. M. E. Church, Brooklyn, N. Y.
Tabernacle Baptist, Brooklyn, N. Y.
Baptist Church, Bristol, Conn.
Lutheran Church, Wooster, O.
Centenary M. E. Church, Jacksonville, Ill.
Elliot St. Congregational, Newton, Mass.
St. George's Church, Astoria, N. Y.
St. Luke's, Brooklyn, N. Y.
First Methodist Episcopal, Portland, Oregon.
Centenary M. E. Church, Norfolk, Va.
Grace M. E. Church, Red Bank, N. J.
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Third German Baptist, New York.
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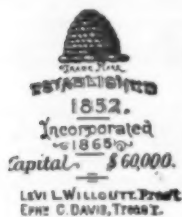
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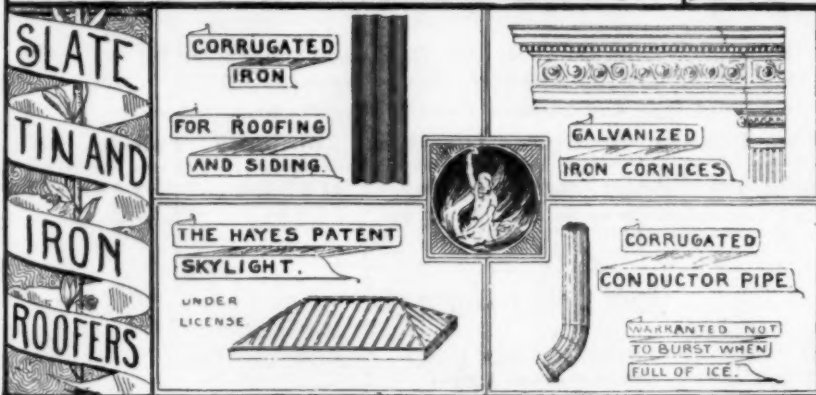
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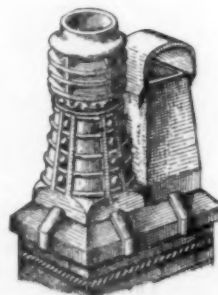
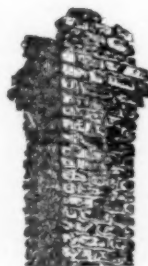
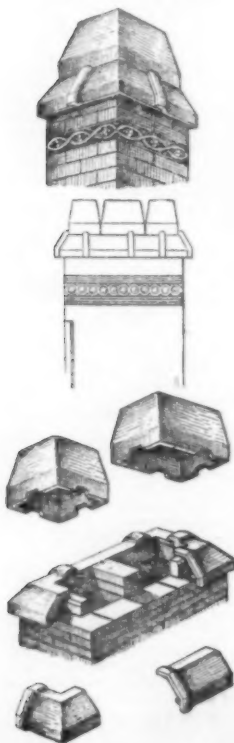
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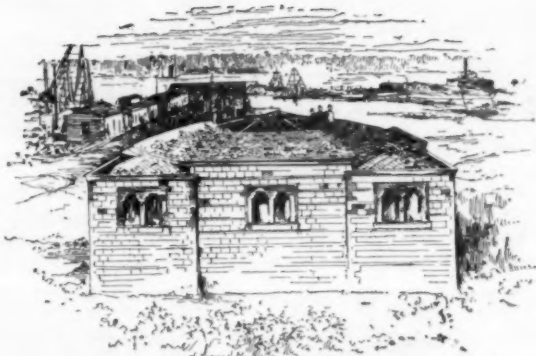
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Two-st'y brick dwell.; cost, \$5,800; owner, S. E. Wegner; contractors, P. W. Morrison & Co.
Two-st'y brick dwell.; cost, \$2,600; owner, Matt. Norotuy; contractors, Bissler Bros.
Two-st'y brick dwell.; cost, \$20,000; owner, C. H. Evans; contractors, Abbott & George.
Wellesley Hills, Mass.—Washington St., frame double dwell., 30' x 46', with L. 18' x 36'; cost, abt. \$6,000; owner, L. R. Putney; architect, Ernest N. Boyden, Boston; builder, G. N. Smith.
West Newton, Mass.—Highland Ave., frame dwell., 30' x 31', with L. 16' x 20'; cost, abt. \$6,000; owners, H. M. & G. W. Taylor; architect, Ernest N. Boyden, Boston; builder, Wm. Pettigrew.

(Continued on page xviii.)

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Architects and builders are fully aware of these facts and when not interfered with by a misguided owner will use none but the best tin plates. Such plates have long been placed on the American market and their excellence sustained and use advocated by Messrs. Merchant & Co., an old and reliable metal firm of Philadelphia. Their tin plates are rapidly being employed on roofs in Dubuque and the northwest. Such tanners as are high minded and above the meanness of injuring their reputation by gaining a temporary advantage use these plates and even guarantee their work for a period of ten years.

A writer recently in a Pittsburgh paper unsolicited and without the knowledge of Messrs. Merchant & Co., thus bears testimony to the superiority of the tin brands of these gentlemen:

It was the house of Merchant & Co., of Philadelphia, that instituted the practice of guaranteeing every box of plates, then stamping the brand and thickness on every sheet, and excluding wasters or defective sheets, and, lastly, by branding the net weight of 112 sheets on each box, to satisfy the customer (in this age of light-weight plates) that he obtained full weight and just what he paid for. The action of the firm was at once a stab at the dishonesty in tin plates and is being felt from ocean to ocean. The firm now come out with the broad declaration for the benefit of those that want the very best roofing plates, that what they assert and claim that they are prepared to prove, that there are no other brands of roofing tin offered in the market to-day, by any firm, under the four different guarantees given by them, and they challenge public contradiction of the statement.

Their brands are "Gilbertson's Old Method," "Merchant's Roofing," and "Camaret." The writer has given this matter a great deal of attention in the past few years, and he has no hesitancy in stating in these columns, and without favor to this house or partiality to them in any way, that he does not for a single moment question the veracity of these statements, but asserts that he knows them to be the truth, the whole truth and nothing but the truth.—*The Dubuque Trade Journal*, Jan. 1890.

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BUILDING INTELLIGENCE.

OFFICE-BUILDINGS.

Chicago, Ill.—Chicago Ship-Building Co., two-st'y office, One Hundred and First St., near Milwaukee Ave.; cost, \$2,500.

New York, N. Y.—West One Hundred and Twenty-fifth St., Nos. 200-213, five-st'y brick office-building, tin roof; cost, \$250,000; owner, Oscar Hammerstein, 2323 Seventh Ave.; architects, McElpatrick & Son, 1193 Broadway.

Broadway, n w cor. Twentieth St., seven-st'y brick office and store building; owner, George Henry Warren; architects, McKim, Mead & White.

Broadway, No. 203, and Fulton St., Nos. 164-168, eight-st'y fireproof office-building; owner, Col. E. F. Shepard, of the Mail and Express; architects, Carrere & Hastings.

Philadelphia, Pa.—Twenty-seventh St., e s, n Diamond St., one-st'y office; contractor, George McKay, 2260 Bouvier St.

Germantown Ave., No. 2552, one-st'y office; contractor, H. G. Schultz, 2633 Germantown Ave.

RAILROAD BUILDINGS.

Chicago, Ill.—Chicago, Rock Island & Pacific R. R., dry-dock and freight-house, 1418 South Clark St.; cost, \$9,000.

SCHOOL-HOUSES.

Boston, Mass.—Centre St., Ward 21, two-st'y brick parochial school, hip roof, 61' x 73'; owner, J. J. Williams.

Kearney, Neb.—\$50,000 will be expended for school-buildings during 1899.

Providence, R. I.—Highland Ave. and Seventh St., frame school-house for the City of Providence; cost, \$9,080; builder, John Butler.

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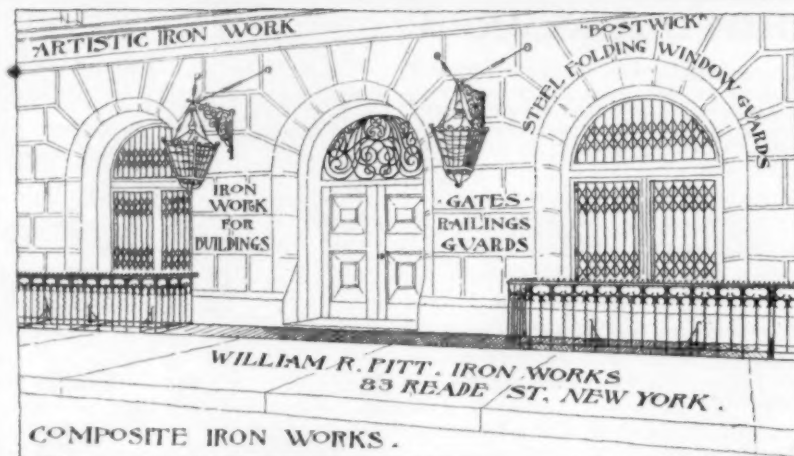
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BUILDING INTELLIGENCE.

STABLES.

Baltimore, Md.—Geo. F. Nardin will build a two-st'y stone stable, s 1701 Maryland Ave.

Boston, Mass.—Hillside St., rear, near Parker Hill Ave., Ward 22, frame stable, 23' x 25'; owner, J. Brennan; builder, W. McDonald.

Power St., near Boston St., Ward 15, frame stable, 25' x 30'; owner, W. H. Taber.

Philadelphia, Pa.—Reading Pike, w s, n Chestnut Ave., two-st'y stable; contractor, Wm. C. Mackie, Chestnut Hill.

North One Hundred and Twenty-third St., No. 1711, two-st'y stable; contractor, M. Andrews, 1604 North Eighteenth St.

STORES.

Chicago, Ill.—H. W. Perce, three-st'y store and flats, 1353 West Madison St.; cost, \$8,000.

Simon Florsheim, seven-st'y and basement store, 215-221 Wabash Ave.; cost, \$150,000.

J. E. Tracy, two-st'y store and flats, 296 Springfield Ave.; cost, \$6,000.

F. C. Peterson, two-st'y and basement store and flats, Halsted and Sixteenth Sts.; cost, \$5,000.

Louis Martin, three-st'y and basement store and flats, 580-590 Thirtieth St.; cost, \$3,000.

Denver, Col.—Welton St., cor. Twenty-third St., two-st'y brick store-building; cost, \$12,500; owner, J. R. De Kemmer; architect, Fred A. Hale; contractor, J. M. Lambert.

Welton St., bet. Sixteenth and Seventeenth Sts., three-st'y brick store-building; cost, \$20,000; owners, Anderson & Pillar; architect, J. B. McLene.

BUILDING INTELLIGENCE.

New York, N. Y.—Washington Pl., cor. Fourth St., 3 six-st'y brick, stone and iron front stores; cost, \$250,000; owners, L. Sachs & Bro.; architect, Rd. Berger.

Philadelphia, Pa.—Kennedy St., s e cor. Emerald St., two-st'y store and dwell.; contractor, Frank Dietrich, 2677 Frankford Ave.

Twenty-seventh, Church and Birch Sts., three-st'y store and dwell.; contractor, T. H. Doan, 3827 Baring St.

South Eighth St., No. 236, four-st'y store and shop; contractor, Thos. Bennett, 923 Locust St.

Eighth St., w s, s Spring Garden St., two-st'y store; contractor, Samuel Morrison, 3561 North Fifth St.

St. Louis, Mo.—Three-st'y brick store and dwell.; cost, \$5,000; owner, T. J. Burk; contractor, B. Stock.

Three-st'y brick store; cost, \$18,000; owner, Geo. Sauerburn; contractors, T. H. Bussey & Co.

Three-st'y brick store and dwell.; cost, \$7,000; owner, F. Amb; contractor, F. Dielenheim.

Two-st'y brick store and dwell.; cost, \$6,000; owner, J. Lambert; contractor, J. C. Hacker.

Two-st'y brick store and dwell.; cost, \$2,900; owner, E. J. McCann; contractor, M. B. Scanlon.

Three-st'y brick store and dwell.; cost, \$4,800; owner, F. W. Bierbaum; contractor, F. Warning.

Three-st'y brick store and dwell.; cost, \$4,000; owner, Geo. Nestle; contractors, Johnson & Brown.

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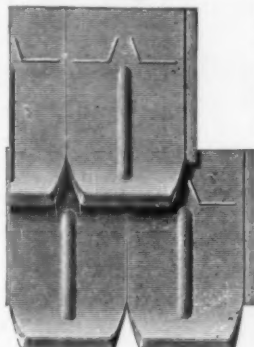
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DISSOLUTION OF
PARTNERSHIP.

The partnership heretofore existing between T. H. Bakewell and W. H. Mullins, under the firm name of

BAKEWELL & MULLINS,
has this day been dissolved; T. H. Bakewell retiring; having sold his interest, including dies, stock, tools, machinery and property of every description, to W. H. Mullins, who will hereafter carry on the business, and will collect and pay all accounts due to, or by said firm.

Salem, Ohio, February 14, 1890.

BUILDING INTELLIGENCE.

one-half-st'y tenement, Hackberry St.; cost, \$7,000; architect, Kukertz & Pfeiffer.

New York, N. Y. - One Hundred and Fifty-first St., s s, 550 e Courtlandt Ave., four-st'y brick tenement, tin roof; cost, \$10,000; owner, Wm. H. Borman, 507 Courtlandt Ave.; architect, Theo. E. Thomson, 244 West One Hundred and Twenty-fifth St.

Springfield, Mass. - J. P. McClune, four-st'y block of four tenements, Dwight St.; architect, F. Newman.

St. Louis, Mo. - Two-st'y brick tenement; cost, \$4,000; owner, D. Foertner; contractor, C. H. Foertner.

Two-st'y brick tenement; cost, \$3,500; owner, Andrew Garzombek; contractor, Jno. Dummeyer.

THEATRES.

New York, N. Y. - Thirty-fifth St., n s, e Sixth Ave., theatre; cost, \$100,000; owner, Edward Harrigan; plans to be selected by competition.

WAREHOUSES.

Chicago, Ill. - A. Burkenstein, five-st'y warehouse, 48 Michigan St.; cost, \$9,000.

MISCELLANEOUS.

Baltimore, Md. - The Phoenix Club contemplate the building of a club-house, to cost abt. \$40,000, from plans by Charles Corson, architect.

Boston, Mass. - Dartmouth St., near Columbus Ave., Ward 11, one-st'y brick mechanical building, flat roof, 48' x 48'; owners, J. S. Bailey and E. Paige; builder, J. E. Potter.

South St., No. 255, Ward 12, one-st'y brick gas-works, pitch roof, 47' x 70'; builders, Woodbury & Leighton.

Chicago, Ill. - Chicago Ship-Building Co., black-smith shop, One Hundred and First St., near Milwaukee Ave.; cost, \$8,000.

F. Long, one-st'y building, 488 West Twenty-first St.; cost, \$1,000.

Chicago Ship-Building Co., two-st'y sheds, One Hundred and First St., near Milwaukee Ave.; cost, \$2,000.

Pennsylvania R. R. Co., one-st'y boiler-house, 115 Dodge St.; cost, \$3,000.

Cincinnati, O. - Vogle & Son, one-st'y engine and boiler room, Colerain Ave.; cost, \$3,000; architect, Fred Ortlipp.

BUILDING INTELLIGENCE.

Denver, Col. - Lawrence St., bet. Ninth and Tenth Sts., brick storage building; cost, \$8,600; owners, Denver Brew. Co.; architect, F. C. Eberly.

Gothenburg, Neb. - Geo. Hiles will build a two-st'y brick business block; cost, \$15,000; architects, Foster & Schuchle.

Kearney, Neb. - The Kearney National Bank will build a stone and brick block, containing an opera-house, banking-rooms, offices and stores; cost, \$100,000; architects, Frank & Bailey.

New York, N. Y. - West Thirty-ninth St., Nos. 633-635, two-st'y brick storage building, gravel roof; cost, \$5,000; owner, Joseph Stern, 616 West Fortieth St.; architects, Thom & Wilson, 1267 Broadway.

West Forty-third St., Nos. 19-29, the Racquet Club will have a new club-house built; architect not yet selected.

Philadelphia, Pa. - Laurel St., s s, w Front St., 2 two-st'y buildings; owners, Northern Liberty Gas Co., s s Laurel St., w Front St.

Twenty-seventh St., w s s, Poplar St., one-st'y boiler-house; contractor, Philip Haibach, Twenty-sixth and Thompson Sts.

Reed St., No. 1325, two-st'y back building; contractor, W. J. McClure, Fifteenth St., n Federal St.

North Second St., No. 834, two-st'y engine and salting room; owner, Geo. T. Thackara, 512 West Venango St.

Mervine St., No. 1730, three-st'y brewery; contractor, Jacob Herold, 932 North Eleventh St.

Lawrence St., Nos. 2223-2225, 2 one-st'y kitchens; owner, Frank Herman, on premises.

Woodland Ave., w s s, Sixty-third St., one-st'y frame building; owner, Thos. R. Bye, on premises.

Indiana Ave., No. 636, two-st'y back building; owner, Frank Selser, on premises.

Chew St., e s s, Washington St., one-st'y kitchen; contractor, Wm. C. Mackie, Chestnut Hill.

Brown St., No. 818, one-st'y kitchen; contractor, Louis Marbitz, 928 North Tenth St.

North Tenth St., No. 2308, two-st'y back building; contractor, Conrad Inhof, 2559 Tyson St.

Jasper St., No. 2625, one-st'y bath.

Broad St., w s s, Susquehanna Ave., three-st'y hall; contractor, Wm. Tecklenburg, 1614 Cadwalader St.

Canal St., n s, w Second St., two-st'y back building; owner, James L. Evans, 2811 Franklin St.

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Mervine St., No. 1732, one-st'y boiler-house; owner, Chas. Claas, brewer, on premises.

Sycamore St., No. 1128, one-st'y brick bakery; owner, Charles Rukle, on premises.

Cooper's Creek, s Federal St., lime kiln; owner, L. D. Blizzard, Millville, N. J.

Sixth and Pine Sts., one-st'y dry-house, end-house, machine-house; owners, Equitable Brick Manufacturing Co., Forty-first and Chestnut Sts.

Rising Sun Ld. and Fifth St., one-st'y smith-shop; owner, James M. Hastings, Pittville.

Ninth St., w s, n Poplar St., three-st'y building for carpet-cleaning, contractor, W. L. Atkinson, 2214 Wallace St.

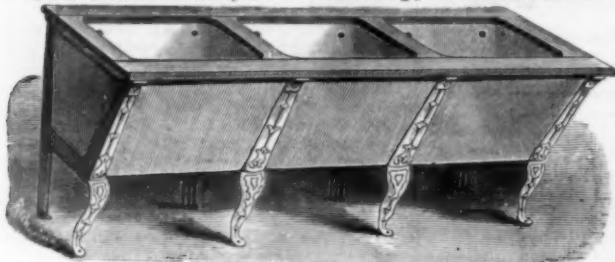
North Forty-first St., No. 533, two-st'y shop; owner, A. Collins, 529 North Forty-first St.

Kensington Ave., s e cor. Ontario St., three-st'y shop; owner, John Junnerdeiski.

Palethorp St., w s s, Cumberland St., two-st'y shop; contractor, Geo. S. Parr, 2429 North Second St.

Toledo, O. - As in nearly all parts of the country, the mechanics have experienced very little hindrance in pursuing building operations almost every day during the present winter. However, as usual, there is a postponement of the commencement of any important structures until about the customary spring period for breaking ground. Most of the buildings commenced in the past three months have been frame cottages and buildings of minor importance. The coming season promises fairly - about as the average has been for the past five years. There is a talk of advance in price of certain building materials and in some branches of labor; but as

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BUILDING INTELLIGENCE.

there has at no time been any "labor trouble" here to retard business, none is now apprehended.

The Y. M. C. A. contemplate beginning upon a new edifice the coming season on Michigan St., fronting the Court-House Park. E. O. Fallis & Co. have been selected as architects. The building will probably be built in three sections, or "instalments," and will eventually cost from \$75,000 to \$100,000 probably.

Competitive plans are being prepared by E. O. Fallis & Co., D. L. Stine and Bacon & Huber for house for Toledo Club, to be built the coming season, cor. Huron and Madison Sts.; cost, abt. \$40,000. Competition to be limited to the three firms named above.

Van Wert, O.—The Cincinnati, Jackson & Mackinaw R. R. Co. contemplate building a brick round-house and machine-shop; cost, abt. \$15,000; architects, Bacon & Huber, Toledo; contract not yet awarded.

Windsor Locks, Conn.—Grand Army Memorial Hall, given to the J. H. Converse Post by C. E. Chaffee; cost, \$20,000; architect, F. Newman; contractor, Watson H. Bliss.

PROPOSALS.

OFFICE-BUILDINGS.

[At Atlanta, Ga.]
Sealed bids will be received by the undersigned until 10 o'clock A. M. Thursday, March 20, 1890, for the erection and completion of an office-building in Atlanta, Ga.

Plans and specifications can be seen at the Builders' Exchanges at Cincinnati, O., and Cleveland, O., and at the office of Bruce & Morgan, architects, Atlanta, Ga.

The successful bidder will be required to give a bond of \$10,000.

The right is reserved to reject any or all bids.

M. C. KISER.

742

LIGHT-TOWER.

[At Diamond Shoal, N. C.]
OFFICE OF THE LIGHT-HOUSE BOARD.

WASHINGTON, D. C., January 9, 1890.
Proposals will be received at this office until 12 o'clock, noon, of Tuesday, the 1st day of July, 1890, for the design, the specifications, the complete construction and equipment and the temporary maintenance of a light-tower on Diamond Shoal, off Cape Hatteras, N. C.

By an act of Congress, the total cost of the light station shall not exceed the sum of \$500,000.

Specifications embodying the requirements of the structure, forms of proposals 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.

DAVID B. HARMONY,

Rear Admiral, U. S. Navy, Chairman.

740

February 15, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 15th day of March, 1890, for all the labor and materials required in the erection and completion of the United States Court-House, Post-Office, etc., building at Winona, Minn. (heating apparatus and plumbing not included), in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$500. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect.

740

February 20, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 19th day of March, 1890, for all the labor and

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PROPOSALS.

materials required to complete the approaches to the United States Post-office building at Ottumwa, Iowa, in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect.

February 13, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 11th day of March, 1890, for all the labor and material required to fix in place complete the low-pressure, return-circulation, steam-heating and ventilating apparatus required for the United States Court-House, Post-Office, etc., building at Abingdon, Va., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect.

February 7, 1890. The time for receiving and opening the proposals for the labor and materials required for the stone and brick masonry of the superstructure of the United States Custom-house, Post-office, etc., building at Port Townsend, Washington, is hereby extended until 2 o'clock P. M., on the 13th day of March, 1890. JAMES H. WINDRIM, Supervising Architect.

February 17, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 10th day of March, 1890, for all the labor and materials required to put in place all the brick and terra-cotta floor arches and covering for iron columns, cement floors, wood floor strips, concrete filling, etc., required for the United States Court-House and Post-Office building at Pittsburgh, Pa., in accordance with the drawings and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect.

COL. GEORGE E. WARING, JR., C. E. etc., in his recent work on Sewerage and Land Drainage, in speaking of traps liable to siphonage, says: "the best remedy would be to supply the defective traps at their summits with McClellan's Mercury Seal-Trap Vent, a perfectly safe device, of little cost, simple and easy of application, and sure to supply air when needed."

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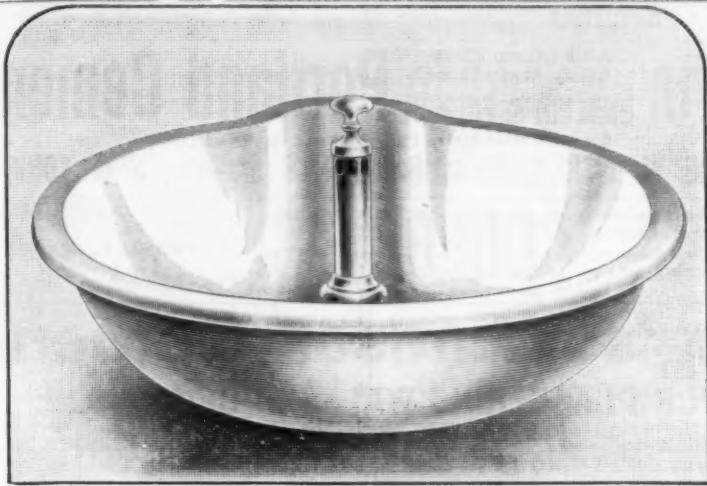


Plate 843—G. The "SIMPLEX" Recess Basin and Waste. (Patented.)

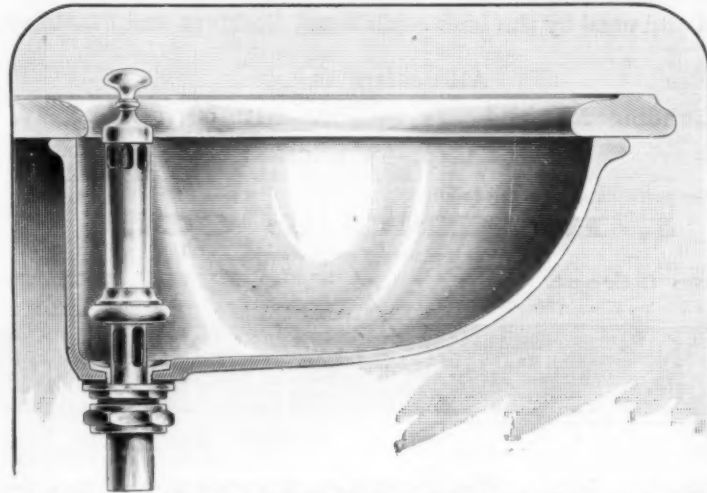


Plate 844—G. Cross Section of "Simplex" Recess Basin, showing Waste raised as when water is being let out of Basin.

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The Highest Grade Imported exclusively by
BAETJER & MEYERSTEIN, 5 Day St.
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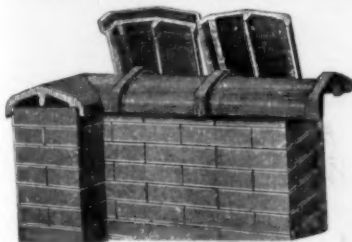
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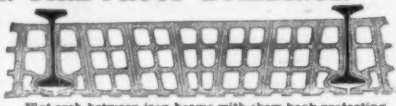
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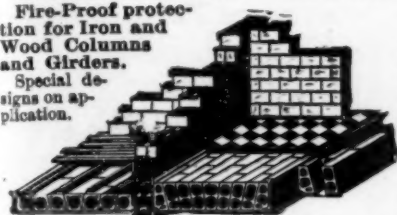
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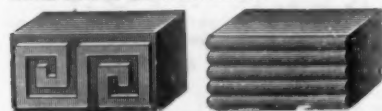
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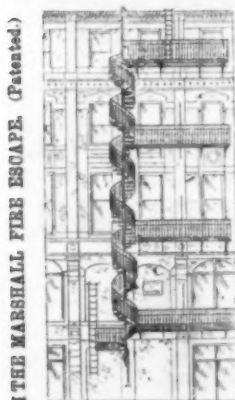
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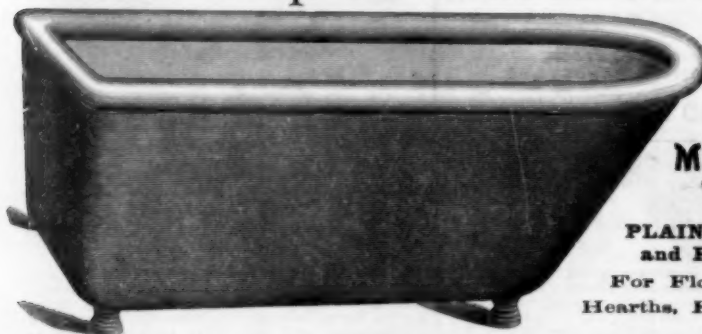
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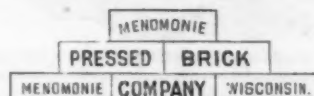
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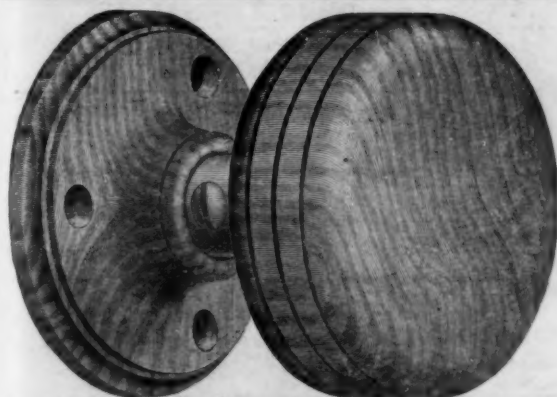
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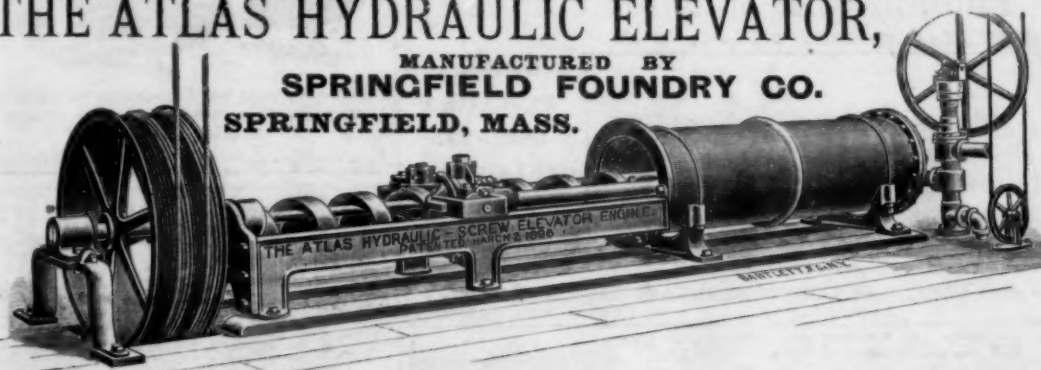
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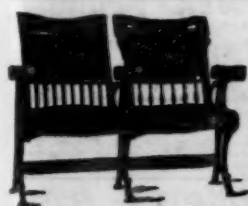
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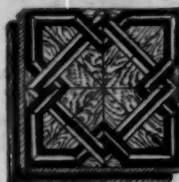
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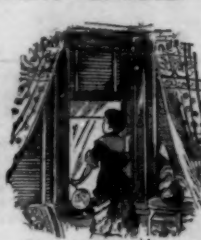
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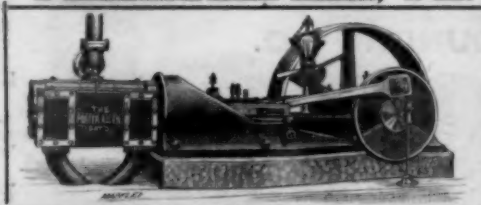
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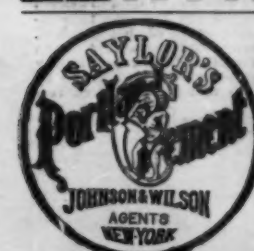
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3/4"	3 lb.	3/4"	3 lb.	3/4"	3 lb.	3/4"	3 lb.	3/4"	3 lb.	3/4"	3 lb.
1"	4 lb.	1"	4 lb.	1"	4 lb.	1"	4 lb.	1"	4 lb.	1"	4 lb.
1 1/4"	5 lb.	1 1/4"	5 lb.	1 1/4"	5 lb.	1 1/4"	5 lb.	1 1/4"	5 lb.	1 1/4"	5 lb.
1 1/2"	6 lb.	1 1/2"	6 lb.	1 1/2"	6 lb.	1 1/2"	6 lb.	1 1/2"	6 lb.	1 1/2"	6 lb.
1 3/4"	7 lb.	1 3/4"	7 lb.	1 3/4"	7 lb.	1 3/4"	7 lb.	1 3/4"	7 lb.	1 3/4"	7 lb.
2"	8 lb.	2"	8 lb.	2"	8 lb.	2"	8 lb.	2"	8 lb.	2"	8 lb.
2 1/4"	9 lb.	2 1/4"	9 lb.	2 1/4"	9 lb.	2 1/4"	9 lb.	2 1/4"	9 lb.	2 1/4"	9 lb.
2 1/2"	10 lb.	2 1/2"	10 lb.	2 1/2"	10 lb.	2 1/2"	10 lb.	2 1/2"	10 lb.	2 1/2"	10 lb.
2 3/4"	11 lb.	2 3/4"	11 lb.	2 3/4"	11 lb.	2 3/4"	11 lb.	2 3/4"	11 lb.	2 3/4"	11 lb.
3"	12 lb.	3"	12 lb.	3"	12 lb.	3"	12 lb.	3"	12 lb.	3"	12 lb.
3 1/4"	13 lb.	3 1/4"	13 lb.	3 1/4"	13 lb.	3 1/4"	13 lb.	3 1/4"	13 lb.	3 1/4"	13 lb.
3 1/2"	14 lb.	3 1/2"	14 lb.	3 1/2"	14 lb.	3 1/2"	14 lb.	3 1/2"	14 lb.	3 1/2"	14 lb.
3 3/4"	15 lb.	3 3/4"	15 lb.	3 3/4"	15 lb.	3 3/4"	15 lb.	3 3/4"	15 lb.	3 3/4"	15 lb.
4"	16 lb.	4"	16 lb.	4"	16 lb.	4"	16 lb.	4"	16 lb.	4"	16 lb.
4 1/4"	17 lb.	4 1/4"	17 lb.	4 1/4"	17 lb.	4 1/4"	17 lb.	4 1/4"	17 lb.	4 1/4"	17 lb.
4 1/2"	18 lb.	4 1/2"	18 lb.	4 1/2"	18 lb.	4 1/2"	18 lb.	4 1/2"	18 lb.	4 1/2"	18 lb.
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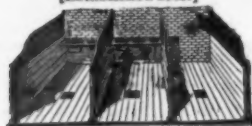
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Cypress.....		32 00 @ 40 00		35 00
Clapboards:				
Pine.....		40 00 @ 60 00	10 00 @ 21 00	14 00 @ 25 00
Spruce.....		25 00 @ 45 00	Not sold.	Not sold.
Framing Timber:				
Pine.....	14 00 @ 18 00	15 50 @ 18 00	14 00 @ 15 00	25 00 @ 37 30
Spruce.....	12 00 @ 16 00	12 50 @ 15 00	10 00 @ 13 00	16 00 @ 18 00
Hemlock.....	18 00 @ 21 00	24 00 @ 25 00	Not sold.	13 00 @ 17 00
Yellow pine.....				23 00 @ 28 00
Laths:				
Pine.....		2 25 @ 2 25	2 10 @ 2 25	2 75 @ 3 00
Spruce.....	2 50 @ 2 60	2 25 @ 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 00 @ 2 70	
Spruce, sawed.....	1 50 @ 2 00	1 50 @ 00	Not sold.	
Kedwood..... P. M.....	1 40 @ 1 00	3 75 @ 4 00	6 00 @ 7 50	30" 35 @ 40
Cedar, split..... P. M.....			Not sold.	24" 8 @ 21
Cedar, sawed.....		2 00 @ 4 00	2 00 @ 2 35	20" 35 @ 14
Cypress, Split..... T & B.....	18 00 @ 20 00	5 00 @ 6 00	3 50 @ 4 00	11 00 @ 14 00
Miscellaneous:				
Plies 6c. 7 ft.....	4 1 @ 5 1	Plies 6c. 7 ft.....	Cut to order.	
Fence pickets, Common.....	8 00 @ 10 00	10 00 @ 15 00	P. 10 00 @ 15 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts).....		25 @ 50	9 @ 21	4 7 @ 1 25
Chestnut ".....		25 @ 50	Not sold.	20 @ 30
Finishing Woods: P. M. (First Qual.)				
Ash..... (Kiln dried.)	80 00 @ 120 00	45 00 @ 60 00	40 00 @ 40 00	30 00 @ 40 00
Cherry.....	40 00 @ 60 00	60 00 @ 120 00	40 00 @ 10 00	80 00 @ 100 00
Butternut.....		60 00 @ 70 00	50 00 @ 60 00	70 00 @ 80 00
Hard-pine floors (rift).....		48 00 @ 50 00		
Manogany, Baywood (Mexican).....	@ 180 00	150 80 @ 180 00	150 00 @ 200 00	150 00 @ 250 00
Maple.....	45 00 @ 60 00	120 00 @ 350 00	200 00 @ 250 00	200 00 @ 400 00
Oak, red.....	70 00	45 00 @ 50 00	18 00 @ 35 00	25 00 @ 55 00
" white.....	70 00	50 00 @ 55 00	32 00 @ 40 00	45 00 @ 55 00
quarters.....	90 00	65 00 @ 80 00	22 00 @ 40 00	45 00 @ 55 00
Sycamore quartered.....		50 00 @ 65 00	45 00 @ 50 00	60 00 @ 75 00
Pine, clear.....	65 00 @ 70 00	50 00 @ 75 00	35 00 @ 5 00	37 25 @ 65 00
Redwood.....	60 00 @ 70 00	60 00 @ 70 00	55 00 @ 60 00	45 @ 65 00
Rosewood..... P. M.....			55 00 @ 60 00	60 00 @ 75 00
Spruce floors (clear, kiln-dried).....		30 00 @ 32 00		
Walnut, black.....	125 00 @ 150 00	80 00 @ 120 00	55 00 @ 100 00	50 00 @ 170
Whitewood.....	45 00 @ 50 00	40 00 @ 45 00	18 00 @ 40 00	25 00 @ 40 00
Yellow pine..... P. M.....	45 00	40 00 @ 42 00	19 00 @ 40 00	27 50 @ 45 00

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With M. F. CUMMINGS, Architect, Troy, N. Y.

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C. EDWARD LOTH, Architect.

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BUILDING MATERIALS.

Reported for the American Architect and Building News.

	New York.	Boston.	Chicago.	Philadelphia.
	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
BRICK.—(P M.)				
Common: Cargo float.				
Pale.....	3 50 @ 4 00	Eastern.....	Building Brick.....	Sq. Hard @ 12
Jersey.....	5 25 @ 6 75	9 00 @ 10 00	@ 6 50	" @ 9 01
Long Island.....	7 25 @ 7 75	Bay State Hard.....		Salmon @ 6 50
Up River.....	6 75 @ 7 00	9 75		Sq. " @ 9 00
Haverstraw Bay End.....	7 25 @ 7 75	Domestic Com.....	Indiana Pressed.....	Light Stretchers.....
1st.....	7 25 @ 7 75	9 50 @ 10 00	14 00 @ 20 00	" @ 12 00
Hollow.....	13 00	Domestic Face.....	St. Louis Fronte.....	Medium " @ 14 00
Fronts.....		20 00 @ 22 00	@ 27 00	Red " @ 15 00
Croton, Brown.....	14 00 @ 15 00	Philadelphia.....		Dark " @ 15 00
" dark.....	15 00 @ 16 00	40 00 @ 45 00		Frosted @ 15 00
" red.....	15 00 @ 16 00	Phila. mould.....		22 00 @ 26 00
Chicago pressed (Anderson).....		50 00 @ 50 00		Best Paving.....
Chicago Moulded.....				@ 16 00
Baltimore.....	7 00 @ 41 00	Anderson.....		Second " @ 14 00
Philadelphia.....	@ 22 00	14 00 @ 32 00		Third " @ 13 00
Trenton.....	@ 22 00			Dom. { @ 65
Milwaukee.....	@ 22 00			{ @ 85
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 cask.)				
Bosendale Cement.....	1 20 @ 1 25	1 20 @ 1 40	Not Sold.	1 30 @ 50
Louisville.....		Brooks, S. & Co.....	1 05 @ 1 30	B & S.E. 275 @ 300
Utica, Akron, Buffalo, Milw'kee.....	Not sold.	2 00 @ 3 00	1 00 @ 1 25	2 85 @ 3 25
Portland, English (Gibbs).....	2 50 @ 3 00	2 60 @ 3 00	2 75 @ 3 25	2 85 @ 3 15
" (K. B. & S.).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross.....	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burham).....	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" " (White).....	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" " French (Lafarge).....	3 60 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor.....
" " German (Alsen).....	2 90 @ 3 25	3 00 @ 3 50	@ 3 20	2 50 @ 2 75
" " (Vorweller).....	2 25 @ 2 40	3 15 @ 3 35	3 20 @ 3 40	2 75 @ 2 85
" " (Lagerhofer).....	2 50 @ 2 90	Cleopatra.....	2 75 @ 3 00	2 50 @ 2 75
" " (Dyckerhoff).....	2 90 @ 3 25	2 55 @ 3 00	3 25 @ 3 50	3 00 @ 3 25
" " (Hanover).....	2 50 @ 3 00	3 00 @ 3 50	Not Sold.	2 75 @ 2 85
" " Stettin, (Anchor).....	3 25 @ 2 85		Not Sold.	
" American (Saylor's).....	2 15 @ 2 45	2 15 @ 2 50	2 75 @ 3 00	2 50 @ 2 75
Roman.....	2 75 @ 3 00	3 00 @ 3 50	3 75 @ 3 25	3 00 @ 3 50
Keene's coarse.....	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine.....	9 25 @ 10 25	@ 11 50	9 @ 10 50	8 00 @ 9 00
LIME:				
Lime of Tel.....	3 50 @ 4 00		Not sold.	White Lime.....
Hydraulic Lime.....	@ 1 45	@ 1 35	55 @ 30 @ bush	25 @ 30 @ bush
Chicago Lime in bulk.....		St. John 1 00	60 @	White Mash.....
Wisconsin.....	@ 1 00	@ 1 05	Not sold.	1 25 @ 1 50
Rockland and Rockport, (Conn.).....	@ 1 20	@ 1 10	Not sold.	1 00 @ 1 00
Rockland and Rockport, (Conn.).....	@ 1 20	@ 1 20	1 00 bulk, 75c.	
Kelley Island Lime, (Conn.).....	@ 1 20	@ 1 20	Not sold.	Not sold.
State, comm. cargo rates (nom.).....	@ 85	Not sold.	Not sold.	Not sold.
State, finishing.....	@ 1 10	Not sold.	Not sold.	Not sold.
Plaster of Paris (calcined).....	1 20 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 50 @ 2 25
" (casting).....	1 30 @ 1 35	@ 2 25	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) @ bush.....	1 1 @ 15	35 @ 30	30 @ 25	3 @ 15
" (Goat).....	2 @ 25	@ 30	30 @ 55	30 @ 30
Sand, @ load.....	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 15
STONE. (P cubic foot, rough.)				
Granite: (Mass).....		@ 60		55 @ 65
Limestone:				
Bedford.....	45 @ 1 25	@ 1 00	50 @	75 @ 90
Joliet.....	@ 1 00		35 @ 55	75 @ 1 50
Lemont.....			35 @ 60	4 50 @ 1 50
Superior.....			1 00	

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Portland, Or. 23, 25 N. Front St. Parks & Lacy Mch. Co.
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Sidewalk @ 30 500
Paved @ 50 600

Sandstone.

Longmeadow @ 80
Kibbe @ 90
Brown (Connecticut) @ 1 00 95

Amherst @ 75 100
Berlin @ 75 100
Belleville @ 80 125
New Brunswick (Dorchester) @ 80 100

Qaan @ 105
Carlisle, English @ 1 05
Corse Hill (Scotch) @ 1 05

Marble (per cu. ft.)

Lee, Mass. @ 1 25 1 75
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Sutherland Falls @ 1 25 1 75
Glens Falls, black @ 1 25 1 75
Italian, blue-veined @ 1 25 1 75
Sienna @ 1 25 1 75
Tennessee, red @ 1 25 1 75
Pennsylvania, blue @ 1 25 1 75
Vermont, white @ 1 25 1 75

Slate, roofing (per square) @ 5 00 6 00
" green @ 5 00 6 00
" unfading @ 5 00 6 00
" purple @ 5 00 6 00
" red @ 4 25 4 75
" black, high @ 4 25 4 75
" Chapmans @ 5 50 8 00
" Unfading Black, Monson, Me. @ 5 50 8 00

Tiles, Am. @ 7 00 7 1/2
N. Peach Bottom, warranted unfading @ 7 00 7 1/2
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" Zinc @ 7 00 7 1/2
Red lead, Am. @ 7 00 7 1/2
" Venetian @ 7 00 7 1/2
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Red Indian, Eng. @ 7 00 7 1/2
Yellow Ochre @ 7 00 7 1/2
" Chrome @ 7 00 7 1/2
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Green, Paris @ 7 00 7 1/2
Black, lamp @ 7 00 7 1/2
Blue, ultramarine @ 7 00 7 1/2
Oil, linseed, (raw) @ 7 00 7 1/2
" boiled @ 7 00 7 1/2
Turpentine @ 7 00 7 1/2
Varnish, coach @ 7 00 7 1/2
Shellac @ 7 00 7 1/2
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Lath @ 7 00 7 1/2
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Bronze metal @ 7 00 7 1/2
Brass (for supboards) @ 7 00 7 1/2
Ebony @ 7 00 7 1/2
Apple wood @ 7 00 7 1/2
Knobs: (per Set.) @ 7 00 7 1/2
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Lava @ 7 00 7 1/2
Hemlock @ 7 00 7 1/2
Porcelain @ 7 00 7 1/2
Glass, solid @ 7 00 7 1/2
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Bronze metal @ 7 00 7 1/2
Brass @ 7 00 7 1/2
Solder: @ 7 00 7 1/2
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Lead Pipe @ 7 00 7 1/2
Iron: @ 7 00 7 1/2
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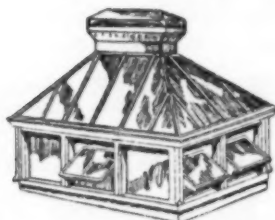
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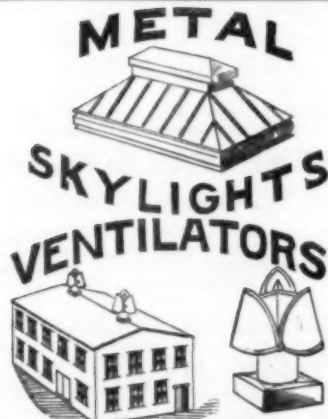
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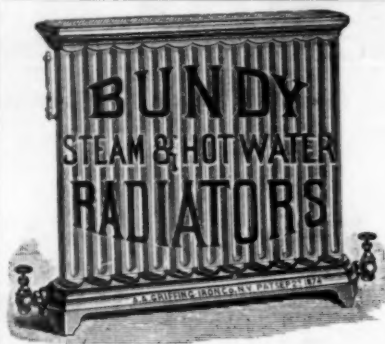
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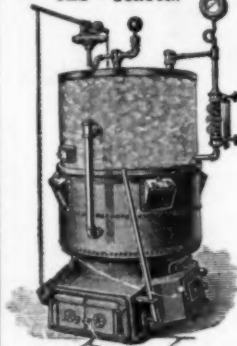
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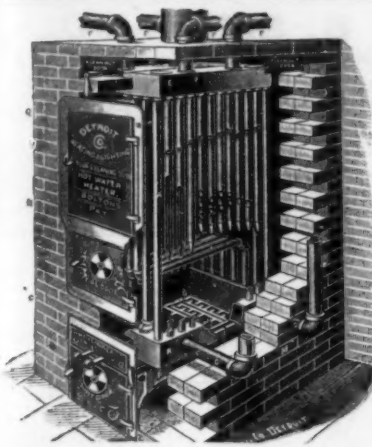
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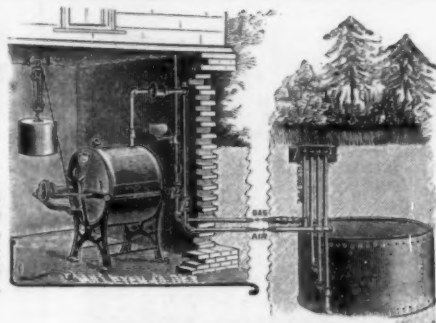
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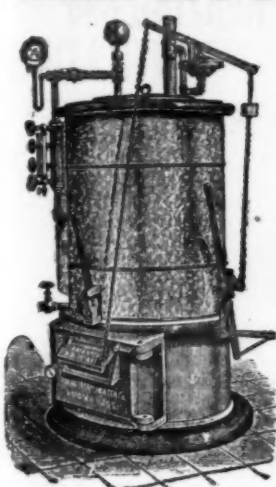
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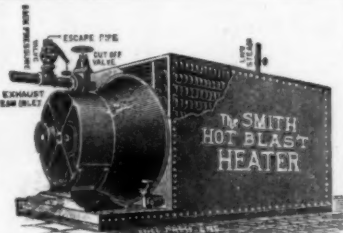
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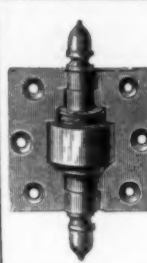
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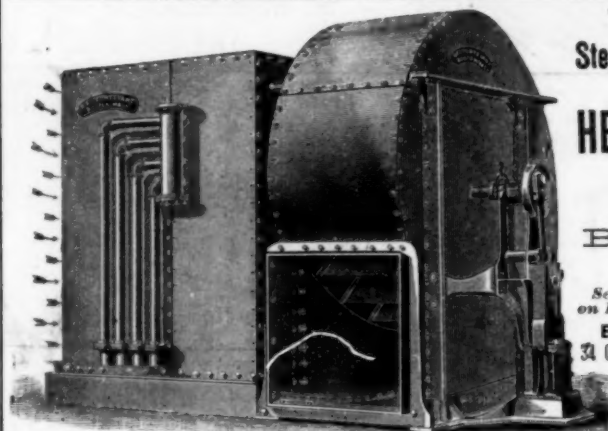
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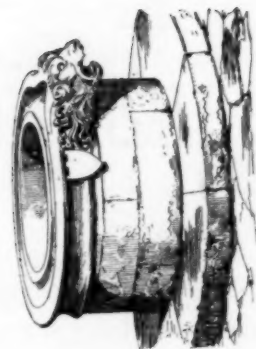
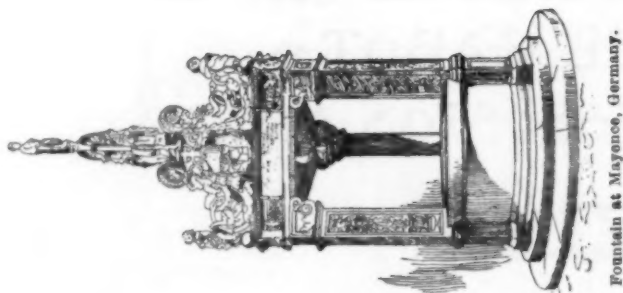
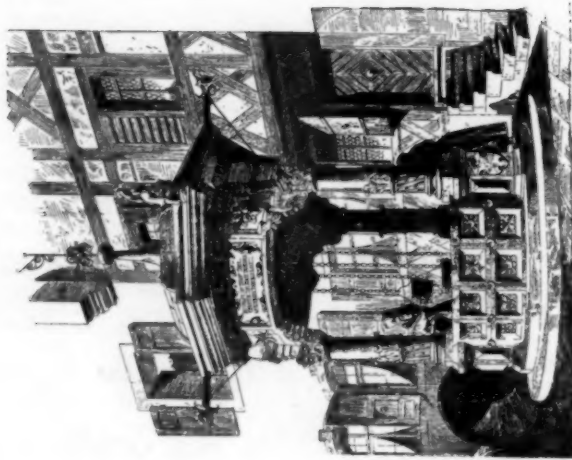
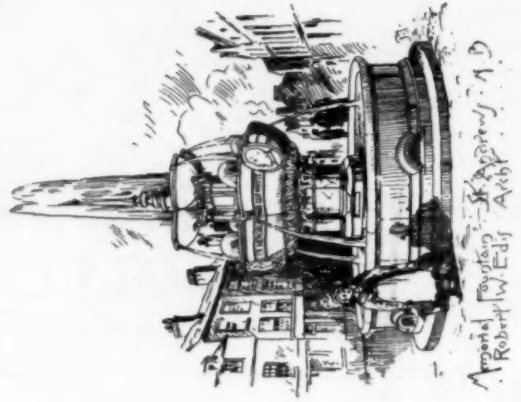
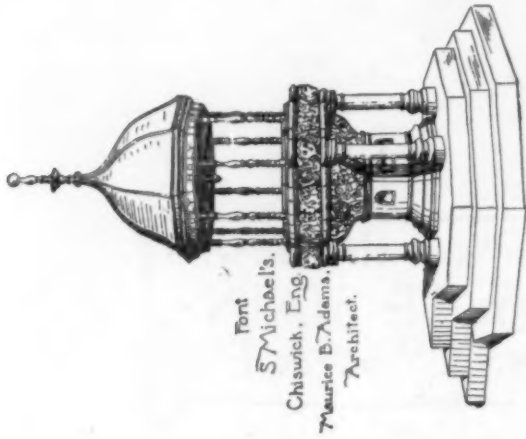
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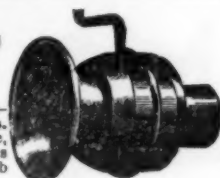
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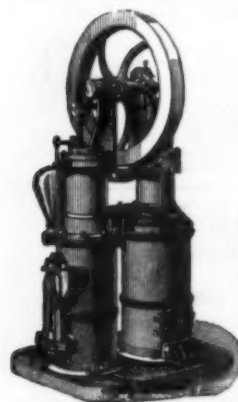
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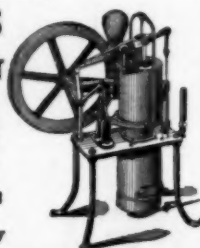


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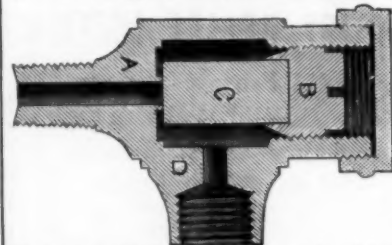
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In number 19 of these papers we told of one of the best examples of house-work anywhere, our new building in Newark. In number 27 we treated of plate-glass finish on wood. If you read those two together now, you will get a clear notion of what we mean by richness in varnish.

Let us repeat two sentences—Any office, or building, or house, can be varnished like that—(and this)—A first-rate job without extravagance; no amount of extravagance could have bettered it.

How does the counterfeit look? It may look like that when new; but the chances are that all the difficult places are skipped in the rubbing; a year or two old, the plate-glass finish is gone, dull wood or rust has taken its place. Nine-tenths of fine houses are finished with counterfeit varnish, put on with the counterfeit work of counterfeit varnishers.

How does real economy differ from stinginess?

Real economy uses Transparent Wood Finish, Interior and Exterior, \$2.50 and \$4 a gallon; Cæsus himself and Poor Richard use the same; but the latter shows his thrift in putting it on Poor Richard saves in having his wood-work plain, his mouldings smooth; he save nine-tenths of Cæsus's rubbing. His varnish lacks the plate-glass finish; but it lasts as long as Cæsus's.

Stinginess saves in the varnish itself and daubs it on like paint; it knows too much to rub it. The house is vile, but it shines when new; in a year the mortgage is foreclosed and the house is varnished again.

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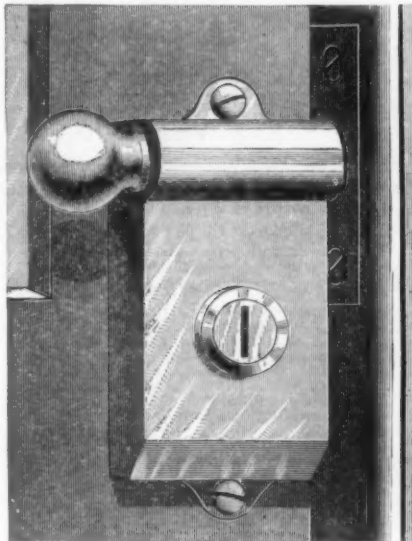
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New Advertisements.

MURPHY & CO. (Newark, N. J.), Varnish. Page xiii.
JAMES B. SCOTT & CO. (Pittsburgh, Pa.), Roofing Materials. Page xvii.
HARPER & BROS. (New York, N. Y.), Books. Page xv.

PERSPECTIVE DRAWING.

The American Architect Drawing-Office will undertake the preparation of perspective drawings in line or color from sketch drawings, or will render drawings already in outline. Address the editors.

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DRAUGHTSMEN.—Two or three first-class architectural draughtsmen can immediately find steady employment (one year or more), salary from \$3.50 to \$4.50 per day, at the office of R. Kletting, architect, Salt Lake City, Utah. 743

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WANTED.

DRAUGHTSMAN.—Wanted, a good architectural draughtsman having a knowledge of construction and details for exterior and interior finish, with some experience in out-door work. Address, stating experience, reference and salary expected, D. B. Woodruff, Architect, Macon, Ga. 742

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SUPERINTENDENT'S POSITION.—Wanted by the 1st of May. An experienced architect would like a position as superintendent; thoroughly understands the construction of all classes of buildings; capable of calculating the strength of materials, etc. Address "Architect," 879 Cauldwell Avenue, New York City. t.f.

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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.]

ALTERATIONS.

Boston, Mass.—Washington St., No. 1747, cor. Chester Sq., Ward 18, alter brick dwell. to three stores; owner, G. Bove; builders, M. S. & G. N. Miller.
A St., near Richards St., Ward 13, alter frame storage to stables; six stalls; owners, Boston Wharf Co.; builder, W. J. Forbes.

Chicago, Ill.—Mrs. M. Garrity, one-st'y and basement addition, 8909 Green Bay St.; cost, \$1,500.
Jas. Kerwin, basement and flat addition, 5314 Atlantic St.; cost, \$1,000.
James E. Otis, two-st'y addition, 280-282 Wabash Ave.; cost, \$6,000.

New York, N. Y.—East Sixteenth St., Nos. 14-16, altered into a six-st'y lodging-house for girls, with extension; owner, Col. Elliott F. Shepard; architect, R. H. Robertson.

West Thirty-fourth St., Nos. 460-462, altered from private dwells. to four-st'y flats; owner, John Farrell; architects, D. & J. Jardine.

French Hospital, additions, etc.; architect, H. Edwards-Ficken.
J. H. Lange, extension to dwell., etc.; architect, H. Edwards-Ficken.

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See last or next issue for the following advertisements.

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J. J. Schillinger.
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BUILDING INTELLIGENCE.

Westfield, Mass.—The Dwight Co., two-st'y addition to mill.

APARTMENT-HOUSES.

Chicago, Ill.—O. Zitterland, three-st'y and basement flats, 3916 South Halsted St.; cost, \$10,000.
Joseph Konkel, two-st'y and basement flats, 8846 Exchange Ave.; cost, \$1,500.
Austin Zakinenickz, two-st'y and basement flats, 8220 Exchange Ave.; cost, \$1,300.
C. Simmons, two-st'y and basement flats, 326 West Thirtieth St.; cost, \$2,400.
Mrs. B. Zulfier, two-st'y and basement flats, 3122 Wallace St.; cost, \$4,000.
B. J. Bernston, three-st'y and cellar flats, 593 North Hoyne Ave.; cost, \$4,000.
Joseph Purcell, two-st'y and cellar flats, 2920 Wallace St.; cost, \$2,800.
Thomas Mika, three-st'y and cellar flats, 512 Wood St.; cost, \$5,000.
Mrs. M. A. Wrightman, two-st'y and basement flats, Greenwood Ave. and Sixty-fifth St.; cost, \$6,000.
Andrew Kalvelage, two-st'y and basement flats, 68 Racine Ave.; cost, \$2,500.
Hans Peterson, two-st'y flats, 780 Rockwell St.; cost, \$2,600.
C. J. Williams, two-st'y and cellar flats, 829 Seminary Ave.; cost, \$1,200.
M. J. Murphy, two-st'y and basement flats, 1542 Lexington Ave.; cost, \$3,000.
August Kropp, two-st'y and basement flats, 16 Warder St.; cost, \$2,800.
H. Gerland, two-st'y flats, Houston Ave. and Ninetieth St.; cost, \$1,400.
C. J. Wolf, two-st'y and basement flats, 6339 Langley Ave.; cost, \$2,200.
A. Jansseheffer, two-st'y and cellar flats, 1272 Ashland Ave.; cost, \$1,800.
B. J. Hognason, 2 two-st'y and cellar flats, 498-500 West Huron St.; cost, \$7,500.
W. F. O'Brien, three-st'y flats, 1236 West Van Buren St.; cost, \$6,000.
John Doharty, two-st'y flats, Baker's Ave. and Wright St.; cost, \$1,000.
James Kaminski, two-st'y and basement flats, Cook St., near Forty-eighth St.; cost, \$1,000.
Geo. Peters, two-st'y and basement flats, Elizabeth and Sixty-ninth Sts.; cost, \$1,300.

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Cash Capital.....	\$3,000,000.00
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Geq. W. Finch, two-and-one-half-sty and basement flats and additional store, 169-171 Francisco St.; cost, \$3,000.

James Pertt, two-sty flats and dwell, Twelfth St. and Forty-first Pl.; cost, \$2,600.

T. L. Frich, two-sty and cellar flats, 309 Campbell Ave.; cost, \$2,500.

C. G. Johnston, two-sty and cellar flats, Edwards and Seventy-ninth Sts.; cost, \$1,500.

D. Dempsey, two-sty and basement flats, 46 Spruce St.; cost, \$2,000.

John Anderson, two-sty flats, 1437 Roscoe St.; cost, \$2,000.

W. J. Breysprank, three-sty and basement flats, 49 Flomond St.; cost, \$5,000.

F. Behrens, two-sty and cellar flats, 408 Winchester Ave.; cost, \$3,000.

Minnie Werner, two-sty flats, 853 Superior St.; cost, \$1,500.

F. Both, four-sty and basement flats, 111-113 Hobbie St.; cost, \$5,000.

B. J. Torkelson, 2 two-sty and basement flats, Heine St. and Armitage Ave.; cost, \$2,500.

Agnes Frenz, two-sty and basement flats, 582 Homans Ave.; cost, \$2,400.

August Mueller, three-sty flats, 423-25 West Division St.; cost, \$3,000.

Fred Langhopp, three-sty and cellar flats, 33 Fry St.; cost, \$7,000.

A. Sallach, two-sty and cellar flats, 1019 Wolf Ave.; cost, \$1,500.

Albert Keminski, two-sty and basement flats, Green Bay Ave. and Eighty-third St.; cost, \$1,000.

Alexander Simon, two-sty and basement flats, 332 South Paulina St.; cost, \$4,000.

C. M. Loomis, two-sty and basement flats, 1103 Superior St.; cost, \$2,000.

New York, N. Y.—One Hundred and Fifty-first St., n. s. 529' w Grand Boulevard, 2 three-sty flats, gravel roofs; cost, \$12,000; owner and architect, A. J. Fullam, 443 West Thirty-fourth St.

One Hundred and Fifth St., n. s. 297' 6" e Tenth Ave., 2 five-sty brick flats, tin roofs; cost, \$60,000; owner, David H. Knapp, 151 West One Hundred and Fifth St.; architect, Ralph S. Townsend, s e cor. Seventy-second St. and Ninth Ave.

West End Ave., s w cor. Seventy-eighth St., five-sty brick flat, tin roof; cost, \$25,000; owners, Egan & Hallacy, 446 West Forty-third St., 308 East One Hundred and Twenty-fifth St.; architect, M. V. B. Ferdon, 272 West Thirty-fourth St.

West End Ave., w s. 229' 2" s Seventy-eighth St., 4 five-sty brick flats, tin roofs; cost, \$80,000; owners, Egan & Hallacy, 446 West Forty-third St., 308 East One Hundred and Twenty-fifth St.; architect, M. V. B. Ferdon, 272 West Thirty-fourth St.

Ninety-fourth St., s e cor. Ninth Ave., 4 five-sty brick flats, tin roofs; cost, \$165,000; owners, Geo. C. Edgar & Son, 185 West Eighty-second St.; architect, G. A. Schellinger, 128 Broadway.

One Hundred and Fifth St., s s. 59' w Manhattan Ave., 2 five-sty brick flats, tin roofs; cost, \$45,000; owner, D. F. Moisan, 406 East One Hundred and Fourth St.; architect, C. Steinmetz, 26 West Eighty-fifth St.

Eighty-ninth St., s s. 110' e Third Ave., 4 five-sty brick flats, tin roofs; cost, \$72,000; owners, Higgins & King, 1420 Second Ave.; architects, Thom & Wilson, 1267 Broadway.

Eighty-eighth St., n. s. 125' w First Ave., 5 five-sty brick flats, tin roofs; cost, \$90,000; owners, Feehan & Hammer, 1113 Second Ave., One Hundred and Fifty-seventh St. and Wetmore Ave.; architects, Thom & Wilson, 1267 Broadway.

One Hundred and Second St., s s. 210' e Third Ave., five-sty brick flat, tin roof; cost, 20,000; owner, Michael H. Barry, 2396 Third Ave.; architect, John C. Burne, 1531 Third Ave.

Ninetyth St., n. s. 300' e Second Ave., 4 five-sty brick flats, tin roofs; cost, \$64,000; owner, Emil Roessert, 444 East Eighty-sixth St.; architect, Edward Wenz, 1491 Third Ave.

One Hundred and Twenty-fifth St., s e cor. Seventh Ave., eight-sty fireproof apartment with stores; cost, \$350,000; owner, George Hillen; architect, W. H. Hume.

Walton Ave., n e cor. One Hundred and Forty-ninth St., four-sty apartment; owner, Katherine Van Cleave; architect, Geo. Martin Huss.

Henry St., s w cor. Jefferson St., six-sty fireproof brick, stone and terra-cotta apartment; cost, \$40,000; owner, H. Pasinsky; architects, Schneider & Herter.

CHURCHES.

New York, N. Y.—Fifty-sixth and Fifty-seventh Sts., w Eighth Ave., St. Timothy's Protestant Episcopal Church, Rev. Henry Lubock, rector, lately burned, is to be rebuilt.

FACTORIES.

Chicago, Ill.—J. Jensen, four-sty and basement factory, 171 Vedder St.; cost, \$4,000.
Peters Trimming Co., four-sty factory, 227 Fulton St.; cost, \$6,500.

Cincinnati, O.—Andrew Soap Co., four-sty factory, Spring Grove Ave.; cost, \$12,000; architects, G. & A. Brink.

New York, N. Y.—Greenwich St., n e cor. West Third St., six-sty brick factory, gravel roof; cost, \$8,000; owner, Joseph D. Eldridge, 82 West Ninety-fifth St.; architect, James M. Farnsworth, Temple Ct.

Greenwich St., w s. 30' e Gansevoort St., six-sty brick factory, gravel roof; cost, \$8,000; owner, Joseph D. Eldridge, 82 West Ninety-fifth St.; architect, James M. Farnsworth, Temple Ct.

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Two-sty brick factory; cost, \$15,500; owner, J. E. Liggett; contractors, F. W. Morrison & Co.

HOTELS.

Denver, Col.—Broadway, Glenarm and Seventeenth Sts., ten-sty granite, sandstone and pressed-brick hotel-building; cost, \$1,000,000; owner, H. C. Brown; architects, F. E. Edbrooke & Co.; contractors, Geddis & Seerie.

HOUSES.

Baltimore, Md.—Harker & Allard, 4 two-sty brick buildings, n s Oliver St., bet. Caroline and Dailas Sts.

H. O. Wilbur, three-sty brick building, w s Charles St., bet. Cross and West Sts.

Robert M. Dalrymple, two-sty and mansard brick building, e s Howard St., bet. Centre and Franklin Sts.

Thos. F. Locke, 5 two-sty brick buildings, s s Cemetery La.; and 8 two-sty brick buildings, e s Carlton St., n Mosher St. and w Arlington Ave.

A. L. Gorter, 6 four-sty brick buildings, w s Calvert St., s Biddle St.

Sarah Muhley, 3 two-sty brick buildings, w s James Alley, near Wiley St.

Boston, Mass.—Unnamed St., off Tolman St., Ward 24, frame dwell, 28' x 32'; owner, John Casey; builder, W. J. Hatch.

Tolman St., near Neponset Ave., Ward 24, frame dwell, 28' x 32'; owner, J. McFarlan; builder, E. Ramsdell.

Pomeroy St., near Gordon St., Ward 25, three-sty frame dwell, flat roof, 25.6' x 48'; owner, J. Manning; builder, J. Marmion.

Dorchester Ave., Nos. 931-945, Ward 24, 4 three-sty frame dwells, and a store, flat roofs, 22.6' x 40'; owner and builder, J. V. Devine.

Dale St., No. 45, cor. Rockland Ave., Ward 21, frame dwell, 22' x 52'; owner, Mrs. E. C. Dinmore; builders, Holbrook & Harlow.

Gordon St., near North Beacon St., Ward 25, frame dwell, 26' x 43'; owner, A. McMurtrie; builder, V. M. Cutter.

Walbeck St., near Milville Ave., Ward 24, one-sty frame dwell, 23.8' x 43.4'; owner, Catherine Gustin; builders, Henderson & Parks.

Walnut Ave., No. 356, Ward 21, frame dwell, 30.2' x 64'; owner, W. A. Johnson; builder, M. Craig.

North Beacon St., near Market St., Ward 25, frame dwell, 27' x 40'; owner, Mrs. M. Welsh; builder, James Muldoon.

Bennington St., No. 609, Ward 1, two-sty frame dwell, flat roof, 22' x 55'; owner, G. M. D. Reed; builder, G. P. Brooker.

Fulda St., nearly opp. Valentine and River Sts., Ward 21, 2 three-sty frame dwells, flat roofs, 23' x 44'; owner of one, Joseph Tondorf; of the other, Joseph Spang; builder, F. Schneider.

Rill St., near Ware St., Ward 24, frame dwell, 25' x 36'; owner, Ellen R. Robbins; builder, W. J. Jobling.

Boylston St., near Exeter St., Ward 11, 4 four-sty brick dwells, flat roofs, 24' x 60'; owner and builder, S. W. Merrill.

Edgewood St., near Warren St., Ward 21, three-sty frame dwell, flat roof, 22' x 51'; owner and builder, L. Vose.

Topliff St., near Geneva Ave., Ward 24, one-sty frame dwell, 22' x 32'; owner, J. T. Middleton; builder, F. P. Macker.

Blue Hill Ave., Nos. 152-154, cor. Rand St., Ward 20, 2 three-sty frame dwells, flat roofs, 22.6' x 47'; owner and builder, H. J. Bartlett.

Vaughan Ave., near Columbia St., Ward 24, three-sty frame dwell, 23' x 32'; owner, Mrs. A. Watson; builder, H. J. McNabb.

Unnamed St., from Tremont St., near Newton line, Ward 25, frame dwell, 28' x 36'; owner, John Walsh; builder, M. O. Keefe.

Knoll St., near Walter St., Ward 23, three-sty frame dwell, pitch roof, 22.6' x 48.6'; owner, W. K. Henderson; builder, J. J. Flynn.

Mt. Vernon St., Ward 25, three-sty frame dwell, pitch roof, 23' x 32'; owner, S. A. Rogers; builder, H. R. Ruggles.

East Fifth St., near Q St., Ward 14, three-sty frame dwell, flat roof, 26' x 54'; owner, F. P. Murphy; builders, Holbrook & Harlow.

Hewlett St., near Centre St., Ward 23, frame dwell, 22' x 32'; owner and builder, Timothy Keefe.

Mozart St., near Selwyn St., Ward 23, frame dwell, 24' x 36'; owner, J. Gannon; builder, D. Hurley.

Bartlett Ct., near Norfolk Ave., Ward 20, three-sty frame dwell, flat roof, 22' x 32'; owner, D. Talbot; builder, D. Halliday.

Juniper St., Nos. 20-24, Ward 21, three frame dwells, 21' x 51'; owners, M. F. Gramer, Mrs. E. T. Eger, Mrs. R. A. Danenhof; builder of all, B. Rose.

Tolman St., near Neponset Ave., Ward 24, frame dwell, 28' x 32'; owner, D. McShane; builder, E. Ramsdell.

Thornton St., Nos. 12-18, Ward 21, four frame dwells, 21' x 51'; owners, C. E. Gramer, J. G. Gramer, Mrs. J. T. Plageman, Mrs. M. L. Schaff; builder of all, B. Rose.

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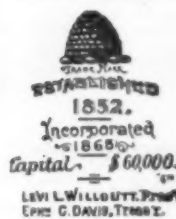
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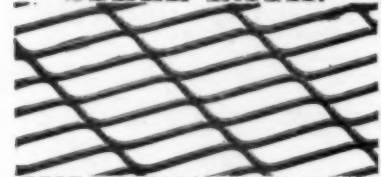
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\$2,700; each, owner, C. H. R. Davis; contractor, D. G. Hughes.
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Three-st'y brick dwell.; cost, \$3,500; owner, A. Hartung; contractor, K. Doerste.
Two-st'y brick dwell.; cost, \$3,000; owner, Wm. Koeneman; contractors, Schildman & Becker.
Two-st'y brick dwell.; cost, \$4,600; owner, F. Steigemeier; contractors, Schildman & Becker.
Two-st'y brick dwell.; cost, \$4,400; owner, A. Leimkuhler; contractors, Schildman & Becker.
Two-st'y brick dwell.; cost, \$4,600; owner, J. Collier; contractors, Kluthe & Boche.
Two two-st'y brick dwell.; cost, \$5,800; owner, C. C. Knight; contractors, C. Linuenkohl & Co.
Two-st'y brick dwell.; cost, \$4,000; owner, A. Stuever; contractor, A. Ditz.
Two-st'y brick dwell.; cost, \$4,600; owner, H. Hiemens; contractors, Paulus & Weidemueller.
Three-st'y brick dwell.; cost, \$18,000; owner and contractor, Abnerston.
Two-st'y brick dwell.; cost, \$4,500; owner, Eva A. Hogan; contractors, F. A. Gray & Bro.
Two-st'y brick dwell.; cost, \$5,000; owner, Mrs. A. E. Filley; contractor, Jas. H. Keefe.
Two-st'y brick dwell.; cost, \$5,000; owner, P. C. Pauley; contractor, Alex. McAllister.
Two two-st'y brick dwell.; cost, each, \$4,300; owner, Wm. C. Uhri; contractors, Uhri & Son.
Three-st'y brick dwell.; cost, \$3,200; owner, Wm. Doelling; contractors, Mattheis & Schneider.
Two-st'y brick dwell.; cost, \$7,500; owner, H. H. Curtis; contractors, Abbott & George.
Two-st'y brick dwell.; cost, \$5,000; owner, Mary Harrigan; contractor, Thos. C. Higgins.
Two three-st'y brick dwell.; cost, each, \$8,000; owner, J. B. Legg; contractor, T. J. Kelly.
Two three-st'y brick dwell.; cost, each, \$9,700; owner, J. G. Brandt; contractor, T. H. Busey.
Three-st'y brick dwell.; cost, \$8,000; owner, C. E. Bradley; sub-let.
Two two-st'y brick dwell.; cost, each, \$4,000; owner, J. Delaney; contractor, J. Costello.
Two-st'y brick dwell.; cost, \$5,000; owner, C. W. McFarland; contractor, H. W. Boone.
Two-st'y and mansard brick dwell.; cost, \$4,000;

BUILDING INTELLIGENCE.

owner, Edw. Oleszewski; contractor, H. H. Schu-
maker.
Two-st'y brick dwell.; cost, \$3,500; owner and
contractor, J. Lanenborg.
Two two-st'y brick dwell.; cost, each, \$3,000;
owner and contractor, J. Lanenborg.
Two-st'y brick dwell.; cost, \$4,000; owner, Wm.
Forst; contractors, Fred Voelpel & Son.
Two-st'y brick dwell.; cost, \$3,600; owner, Mrs. J.
Kinder; contractors, Fred Voelpel & Son.
Two-st'y brick dwell.; cost, \$1,000; owner and
contractor, J. Bissant.
Two-st'y brick dwell.; cost, \$12,000; owner and
contractor, J. Bissant.
Two-st'y brick dwell.; cost, \$3,500; owner, A.
Jungks; contractor, A. J. Riddle.
Toledo, O.—Woodruff Ave., two-st'y frame dwell.;
cost, abt. \$3,500; owner, H. R. Ballard; architects
Bacon & Huber; builder, L. Atwell.

OFFICE-BUILDINGS.

Chicago, Ill.—Pittsburgh & Fort Wayne R. R. Co.,
one-st'y office, Twelfth and Holden Sts.; cost, \$10-
000.

PUBLIC BUILDINGS.

Providence, R. I.—The State of Rhode Island has
appropriated for and appointed a committee to
obtain plans, etc., for a new State-house before
January 1, 1891.

SCHOOL-HOUSES.

New York, N. Y.—Ninety-third St., new cor. Tenth
Ave., four-st'y brick school, peak tin roof; cost,
\$170,000; owner, City of New York, City-hall, New
York; architect, Geo. W. Debevoise, 146 Grand St.
New buildings are to be added to Columbia Col-
lege from plans of Chas. C. Haight.

Orange, Mass.—Two-st'y brick school-house; archi-
tects, Richmond & Seabury.

STABLES.

Brookline, Mass.—Clark Rd., frame stable, 25' x
48'; owner, J. J. Rothery; contract to be let; archi-
tects, Lewis & Phipps, Boston.
Chicago, Ill.—A. Klinger, three-st'y and basemen
barn and flats, 145 Elm St.; cost, \$1,800.

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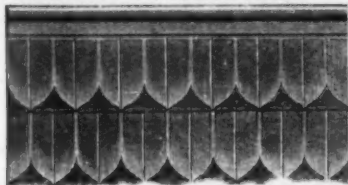
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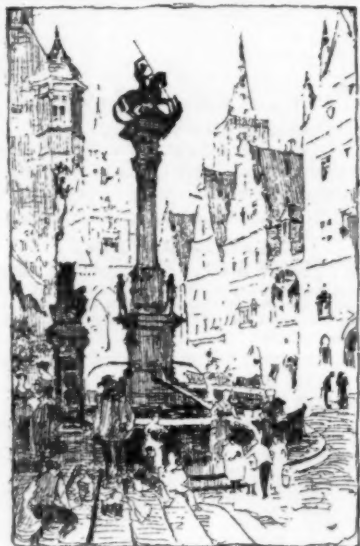
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BUILDING INTELLIGENCE.

New York, N. Y.—Hester St., No. 209, five-st'y brick stable, cement roof; cost, \$20,000; owner, John Aches, 207 East Tenth St.; architect, Louis F. Heinecke, 62 Bowery.

Fourth Ave., w. s. 75' 8" n One Hundred and Ninth St., two-st'y brick stable, tin roof; cost, \$5,000; owner, John Townshend, 95 Nassau St.; architect, James W. Cole, 403 West Fifty-first St.

One Hundred and Thirty-seventh St., s. s. 100' w Lincoln Ave., two-st'y brick stable, tin roof; cost, \$6,000; owner, Emil A. Mayer, 319 East One Hundred and Twenty-fifth St.; architect, Andrew Spence, 1163 East One Hundred and Twenty-fifth St.

Rockport, Mass.—Frame stable, 20' x 45'; owners, W. A. Folsom and Thatcher heirs; to be placed in rear of their dwellings, now being built; builders: Mr. Ballantyne, carpenter; H. S. Tuttle, Lynn, mason; architects, Bryant & Eaton, Boston.

Somerville, Mass.—Thurston St., cor. Medford St., frame stable, 20' x 28'; owner and builder, Ephraim C. Smith.

Quincy St., frame stable for four horses, 23' x 36'; owner and builder, Chas. C. Bartlett.

STORES.

Baltimore, Md.—Anna M. Lautenslager, three-st'y brick building, e. s. Gay St., bet. Forrest and Aisquith Sts.

Wm. Bowersfeld, three-st'y brick building, e. s. Gay St., bet. Forrest and Aisquith Sts.

Chicago, Ill.—Miss McDermott, two-st'y store and dwell., Thirty-second and Lake Sts.; cost, \$2,300.

E. G. Webber, three-st'y store and flats, 454-456 Sixty-third St.; cost, \$16,000.

J. Monday, three-st'y and basement store and flats, 633 West Twentieth St.; cost, \$6,500.

John Murtagh, two-st'y and basement store and office, 850 Thirty-fifth St.; cost, \$4,500.

S. H. Mack, two-st'y store and dwell., 824 West Indiana St.; cost, \$2,000.

Andrew Johnson, two-st'y stores and flats, 1343 California Ave.; cost, \$1,500.

M. Clarkson, two-st'y store and dwell., State and Sixty-fifth Sts.; cost, \$2,300.

J. Melaske, two-st'y store and flats, 4856 Page St.; cost, \$2,300.

Fannie E. Phalen, two-st'y store and dwell., Fifty-seventh, near Bishop St.; cost, \$1,500.

BUILDING INTELLIGENCE.

James Bulger, two-st'y and basement store and flats, 783 West Twenty-second St.; cost, \$3,500.

A. C. Lynch, four-st'y stores and halls, 686-688 West Taylor St.; cost, \$20,000.

P. J. Peppard, two-st'y store and flats, 5111 Halsted St.; cost, \$2,300.

P. Mallimore, 2 one-st'y stores and dwells, 830 Fifty-first St.; cost, \$1,500.

W. Varley, two-st'y store and dwell., 1197 West Van Buren St.; cost, \$2,300.

Mathias Schulten, four-st'y and basement stores and flats, 114 Centre St.; cost, \$10,000.

Morris Danneher, three-st'y and basement store and flats, 514 Forty-seventh St.; cost, \$4,000.

T. O. Shea, two-st'y store and dwell., 3358 Wood St.; cost, \$2,500.

C. Burghause, three-st'y store and flats, 2964 Deering St.; cost, \$5,000.

Edward Elder, two-st'y store and dwell, Morgan Ave. and Fifty-second St.; cost, \$1,700.

John Kirchgasner, 2 two-st'y stores and flats, 540 Halsted St.; cost, \$3,000.

Oscar Grigg, two-st'y store and dwell., 4655 Wentworth Ave.; cost, \$2,500.

Martin Kennedy, two-st'y store and dwell., 6616 State St.; cost, \$1,900.

Kate Derby, two-st'y store and dwell., Fifty-seventh and Sherman Sts.; cost, \$2,000.

H. Miller, two-st'y store and flats, 793 West Chicago Ave.; cost, \$3,500.

Denver, Col.—Welton St., cor. Twenty-second St., two-st'y brick store-building; cost, \$20,000; architect, T. D. Robinson.

Welton St., bet. Twenty-sixth and Twenty-seventh Sts., two-st'y store and brick store-building; cost, \$12,000; owner, Geo. W. Timmerman; architects, Lang & Pugh.

Detroit, Mich.—Gordon W. Lloyd, architect, block of 2 five-st'y stores, Larned St. w.; cost, \$35,000; owners, D. Whitney, Jr., and W. Reid.

H. S. Peoples, 4 two-st'y brick stores, 1145-51 Michigan Ave.; cost, \$13,000.

L. Kirehner, two-st'y brick store and dwell., 856 Gratiot Ave.; cost, \$3,000.

New York, N. Y.—Greene St., Nos. 192-192, six-st'y brick store-building, tin roof; cost, \$100,000; owner, Samuel Meinhard, Savannah, Ga.; architect, Alfred Zucker, 346 Broadway.

West Fifty-fourth St., No. 419, one-st'y brick store,

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BUILDING INTELLIGENCE.

tin roof; cost, \$3,200; owner, Julius Busch, 1284 Second Ave.; architect, John Wolf, 55 Liberty St.

Bowery, No. 85, five-st'y brick store, tin roof; cost, \$22,000; owner, Barney Isaacs, n e cor. Hester and Orchard Sts.; architects, Schneider & Herter, Bible House, Seventh St. and Bowery.

Philadelphia, Pa.—East Girard Ave., No. 110, three-st'y store; owner, E. Clevenger, 112 East Girard Ave.

St. Louis, Mo.—Three-st'y brick store and dwell.; cost, \$6,000; owner, Wm. Bradpack; contractors, Geimer & Gizard.

Two-st'y brick store and dwell.; cost, \$3,000; owner, C. F. Seidlitz; contractors, F. H. Gray & Bro.

Six-st'y brick store; cost, \$80,000; owner, G. B. Allen estate; contractor, C. E. Clark.

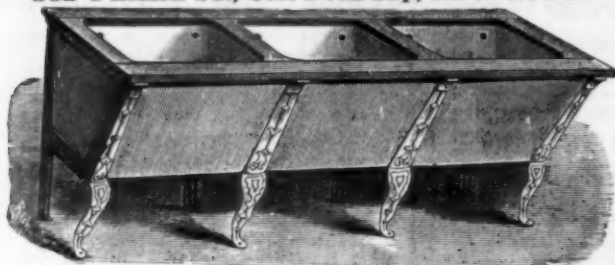
TENEMENT-HOUSES.

Cincinnati, O.—H. Berckhorst, four-st'y tenement, Woodward St.; cost, \$5,000; architects, G. & A. Brink

New York, N. Y.—One Hundred and Forty-sixth St., n s. 240' w Brook Ave., four-st'y brick tenement, tin roof; cost, \$11,500; owner, Herman J. Goon, 723 East One Hundred and Forty-sixth St.; architect, Adolph Pfeiffer, 2773 Third Ave.

Courtland Ave., e. s. 28' 37" n One Hundred and Forty-ninth St., four-st'y brick tenement, tin roof; cost, \$10,000; owner, Chas. Spillner, 524 Courtland Ave.; architect, Gustav Schwarz, 578 East One Hundred and Fifty-second St.

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WAREHOUSES.

New York, N. Y. — Greene St., w s, n Bleecker St., six-sty brick and stone warehouse; owner, Geo. R. Read.

MISCELLANEOUS.

Baltimore, Md. — The Central Savings Bank will build a five-sty brick bank and office building, s e cor. Charles and Lexington Sts.

Brooklyn, N. Y. — Oakland St., No. 29, w s, 31st n Van Cott Ave., three-sty frame building; cost, \$5,000; owner and architect, Wm. H. Fenwick, 68 Newell St.; builders, Gately & Smith.

Broadway, s w cor. Saratoga Ave., four-sty brick building, flat roof; cost, \$20,000; owner and builder, W. H. H. Glover, 788 Quincy St.; architect, Clarence Lincoln, 1277 Bushwick Ave.

Russell Pl., n e cor. Atlantic Ave., 6 two-sty and basement frame buildings, flat roof; cost, \$3,500; owner, W. D. Bogart, 1592 Bushwick Ave.

Ridgewood Ave., s s, 60th w Linwood St., two-sty frame building with brick foundation walls, peak roof; cost, \$2,600; owner and builder, Isaac Newton, 2921 Atlantic Ave.; architect, Wm. Danmar.

Chicago, Ill. — International Packing Co., two-sty refrigerator building, Centre Ave. and Forty-seventh St.; cost, \$10,000.

Ernest Fischer Brewing Co., five-sty brewery, 671-693 Dudley St.; cost, \$20,000.

Hyde Park Suburban Club, two-sty club-house, Washington Ave. and Fifty-seventh St.; cost, \$30,000.

Steel Co.'s Shops, shop, 3147 South Ashland St.; cost, \$1,000.

Crane Elevator Co., one-sty blacksmith shop, 219-221 Jefferson St.; cost, \$9,000.

John Mack, two-sty shop and dwell., Lafin and Forty-eighth St.; cost, \$1,500.

Denver, Col. — Grand Ave., bet. Third and Fourth Sts., brick electric-power station; cost, \$8,000; owners, Denver Tramway Co.; architect, Fred A. Hale.

New York, N. Y. — Second St., Nos. 196-198, rear, five-sty brick workshop, tin roof; cost, \$4,500; owner, Andrew Lion, 36 Avenue B; architect, William Graul, 215 Bowery.

Northampton, Mass. — Smith & Livermore, frame and stone building, Pleasant St. and Kirkland Ave.; cost, \$5,500.

Philadelphia, Pa. — Chestnut St., No. 3029, rear, one-sty smithshop; contractor, A. C. Wilson, 4058 Powelton Ave.

Tyson St., e s, n Cumberland St., two-sty shop; owner, H. G. Schultz.

Jefferson Ave., e s, n Penn St., one-sty back building; contractor, Benj. Taylor, 4330 Paul St.

PROPOSALS.

CAST-IRON WATER-PIPES.

[At Boston, Mass.]

OFFICE OF THE BOSTON WATER BOARD.

March 1, 1890.

Sealed proposals will be received at this office until 12 o'clock a. m. of Friday, the 14th day of March, 1890, to be indorsed "Proposals for Cast-Iron Water-Pipes, Boston Water-Works."

And at that time and place they will be publicly opened and read.

Bidders are required to state in their proposals their names and places of residence.

Each bid must be signed by the bidder and accompanied by a certified check for \$1,000, conditioned for the execution of the contract (with satisfactory security for its performance) within the time specified in this advertisement in case the bid be accepted.

The person to whom the contract may be awarded will be required to execute the contract within four days (not including Sunday) from the date of notification of such award, and the preparation and readiness for signature of the contract.

The delivery of the pipes to commence on or before

PROPOSALS.

May 1, 1890, and to be completed on the first day of September, 1890.

The estimate of quantities required, and by which the bids will be compared, is as follows:

- 100 tons 6-inch pipe, class B.
- 350 tons 8-inch pipe, class B.
- 300 tons 10-inch pipe, class B.
- 650 tons 12-inch pipe, class B.
- 100 tons special castings.

Specifications may be obtained and plans seen at the office of the City Engineer, City-hall, Boston.

The amount of security required will be such sum as may be fixed by the Water Board after the proposals are opened.

The Water Board reserves the right to reject any or all proposals, should it deem it for the interest of the City of Boston so to do.

ROBERT GRANT, } Boston
THOMAS F. DOHERTY, } Water
PHILIP J. DOHERTY, } Board.

741

March 3, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock p. m., on the 24th day of March, 1890, for all the labor and materials required to construct complete the iron ceiling framing and the iron partitions in fifth story of the United States Court-house and Post-office building at Pittsburgh, Pa., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect. 742

TO CONTRACTORS AND BUILDERS. Office of the Light-house Engineer, Third District, Tompkinsville, N. Y., February 25, 1890. Sealed proposals will be received at this office until 12 o'clock noon of Saturday, the 15th day of March, 1890, for furnishing the materials and labor of all kinds necessary for the construction, completion and delivery of Coney Island Light-Station, New York, as follows: Item No. 1, foundation of tower; item No. 2, erection of tower; item No. 3, keeper's dwelling, including grading; also fog-bell tower and front beacon. Plans, specifications, forms of proposals and other information may be obtained on application to this office. The right is reserved to reject any or all bids. Bids will be received for any part or all, and will be considered by separate items. D. P. HEAP, Major of Engineers, U. S. Army, Engineer Third Light-house District. 742

February 26, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock p. m. on the 21st day of March, 1890, for all the labor and materials required in the erection and completion of the extension of the United States Post-Office, Court-House, etc., building at Detroit, Mich., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect. 742

February 20, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock p. m., on the 19th day of March, 1890, for all the labor and materials required to complete the approaches to the United States Post-office building at Ottumwa, Iowa, in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect. 741

COL. GEORGE E. WARING, JR., C. E. etc., in his recent work on Sewerage and Land Drainage, in speaking of traps liable to siphonage, says: "the best remedy would be to supply the defective traps at their summits with McClellan's Mercury Seal-Trap Vent, a perfectly safe device, of little cost, simple and easy of application, and sure to supply air when needed."

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PROPOSALS.

February 7, 1890. The time for receiving and opening the proposals for the labor and materials required for the stone and brick masonry of the superstructure of the United States Custom-house, Post-office, etc., building at Port Townsend, Washington, is hereby extended until 2 o'clock p. m., on the 13th day of March, 1890. JAMES H. WINDRIM, Supervising Architect. 741

OFFICE-BUILDINGS.

[At Atlanta, Ga.]

Sealed bids will be received by the undersigned until 10 o'clock a. m. Thursday, March 20, 1890, for the erection and completion of an office-building in Atlanta, Ga.

Plans and specifications can be seen at the Builders' Exchanges at Cincinnati, O., and Cleveland, O., and at the office of Bruce & Morgan, architects, Atlanta, Ga.

The successful bidder will be required to give a bond of \$10,000.

The right is reserved to reject any or all bids.

M. C. KISER.

742

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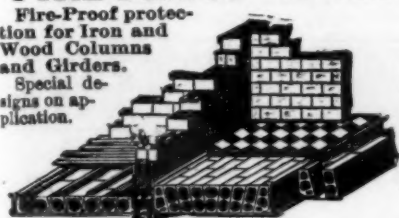
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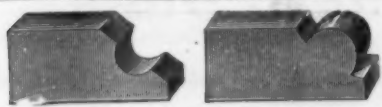
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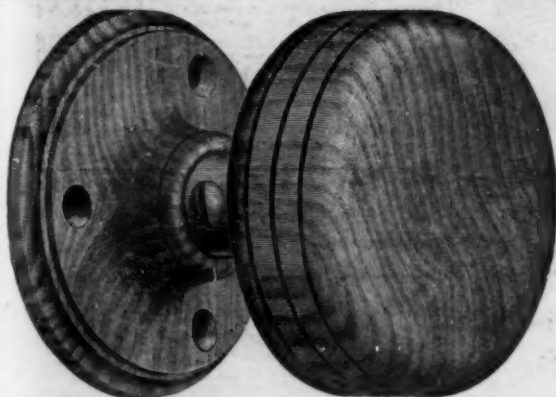
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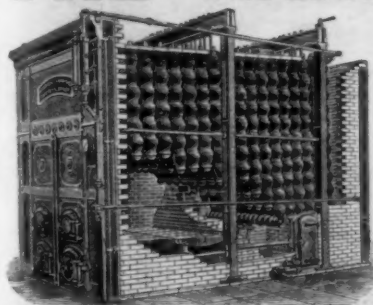
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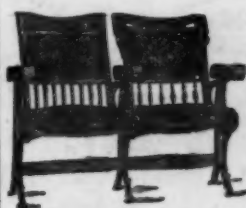
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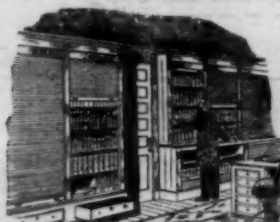
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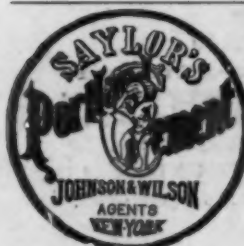
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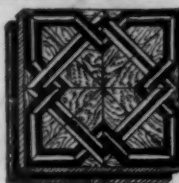
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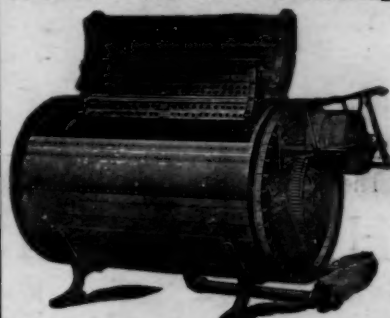
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1 1/2 to 2	1 1/2 to 2	1 1/2 to 2	1 1/2 to 2	1 1/2 to 2	1 1/2 to 2
2 to 2 1/2	2 to 2 1/2	2 to 2 1/2	2 to 2 1/2	2 to 2 1/2	2 to 2 1/2
2 1/2 to 3	2 1/2 to 3	2 1/2 to 3	2 1/2 to 3	2 1/2 to 3	2 1/2 to 3
3 to 3 1/2	3 to 3 1/2	3 to 3 1/2	3 to 3 1/2	3 to 3 1/2	3 to 3 1/2
3 1/2 to 4	3 1/2 to 4	3 1/2 to 4	3 1/2 to 4	3 1/2 to 4	3 1/2 to 4
4 to 4 1/2	4 to 4 1/2	4 to 4 1/2	4 to 4 1/2	4 to 4 1/2	4 to 4 1/2
4 1/2 to 5	4 1/2 to 5	4 1/2 to 5	4 1/2 to 5	4 1/2 to 5	4 1/2 to 5
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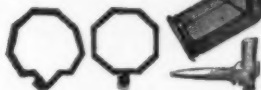
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" 2d quality.....	55 00 @ 60 00	42 00 @ 50 00	43 00 @ 45 00	40 00 @ 45 00
" 3d quality.....	18 00 @ 22 00	35 00 @ 40 00	39 00 @ 41 00	30 00 @ 35 00
Spruce.....	12 00 @ 25 00	12 00 @ 25 00	Not sold.	16 00 @ 20 00
Hemlock.....	13 1/2 @ 14	13 00 @ 15 00	12 00	11 25 @ 13 50
Yellow pine.....	20 @ 40	25 00 @ 35 00	21 00	14 00 @ 29 00
Cypress.....	22 00 @ 40 00			22 00 @ 35 00
Clapboards.....		40 00 @ 60 00	10 00 @ 21 00	14 00 @ 25 00
Pine.....		25 00 @ 45 00	Not sold.	Not sold.
Spruce.....			14 00 @ 15 00	25 00 @ 37 30
Framing Timber:			Not sold.	16 00 @ 18 00
Pine.....	14 00 @ 18 00	15 50 @ 18 00	10 00 @ 13 00	13 00 @ 17 00
Spruce.....	12 00 @ 16 00	12 50 @ 15 00		22 00 @ 28 00
Hemlock.....	18 00 @ 21 00	24 00 @ 35 00		
Yellow pine.....				
Laths:				
Pine.....	2 75 @ 3 00	2 25 @ 2 35	2 10 @ 2 25	2 75 @ 3 00
Spruce.....		2 25 @ 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 00 @ 2 70	
Spruce, sawed..... "	1 50 @ 2 00	1 50 @ 00	Not sold.	
Redwood..... P. M.....	1 40 @ 1 60	3 75 @ 4 00	6 00 @ 7 50	{20" \$35 @ 40
Cedar, split..... P. M.....			Not sold.	{24" 8 @ 21
Cedar, sawed..... P. M.....		2 00 @ 4 00	2 00 @ 2 35	{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..... 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 @ 18 00	9 00 @ 13 00
Cedar posts, 9 ft. (sq. posts.).....		25 @ 50	9 @ 21	47 @ 1 25
Chestnut.....		25 @ 50	Not sold.	20 @ 30
Finishing Woods: P. M. (First Qual.)				
Ash..... [Kiln-dried.]	@ 55 00	45 00 @ 60 00	20 00 @ 40 00	30 00 @ 40 00
Cherry.....	80 00 @ 120 00	65 00 @ 120 00	80 00 @ 103 00	80 00 @ 100 00
Butternut.....	40 00 @ 60 00	60 00 @ 70 00	50 00 @ 60 00	70 00 @ 80 00
Hard-pine floors (rift).....		45 00 @ 50 00		
Mahogany, Baywood (Mexican).....	@ 180 00	150 00 @ 160 00	150 00 @ 200 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	18 00 @ 35 00	25 00 @ 55 00
Oak, red.....	@ 70 00	50 00 @ 50 00	32 00 @ 40 00	45 00 @ 55 00
" white.....	@ 70 00	50 00 @ 55 00	22 00 @ 40 00	45 00 @ 55 00
" quartered.....	@ 90 00	65 00 @ 80 00	45 00 @ 50 00	60 00 @ 75 00
Sycamore quartered.....		50 00 @ 65 00	35 00 @ 50 00	67 50 @ 65 00
Pine, clear.....	65 00 @ 70 00	50 00 @ 75 00	35 00 @ 50 00	60 00 @ 75 00
Redwood.....	60 00 @ 70 00	60 00 @ 70 00	55 10 @ 65 00	60 00 @ 75 00
Rosewood..... P. M.....		30 00 @ 32 00		
Spruce floors (clear, kiln-dried).....				
Walnut, black.....	125 00 @ 150 00	80 00 @ 120 00	55 00 @ 100 00	50 00 @ 170
Whitewood.....	45 00 @ 50 00	40 00 @ 45 00	18 00 @ 40 00	25 00 @ 40 00
Yellow pine..... P. M.....		40 00 @ 45 00	19 00 @ 40 00	37 50 @ 45 00

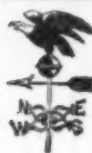
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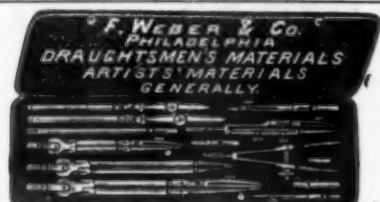
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Common: Cargo float.				
Pale.....	3 00 @ 4 00	Eastern	Building Brick	Sq. Hard @ 12
Jersey.....	5 25 @ 6 75	9 00 @ 19 00	@ 6 50	" @ 9 00
Long Island.....	7 00 @ 7 50	Bay State Hard		Salm n @ 6 50
Up River.....	7 00 @ 7 50	9 75		Sq. " @ 9 00
Haverstraw Bay 2nd.....	7 50 @ 7 75	Domestic Com.	Indiana Pressed	Light Siretchers
" 1st.....	7 50 @ 7 75	9 50 @ 10 00	14 00 @ 20 00	@ 12 00
Hollow.....	13 00	Domestic Face	St. Louis Fronts	Medium " @ 14 00
Fronts.....		20 00 @ 23 00	@ 27 00	Red " @ 15 00
Croton, Brown.....	14 00 @ 15 00	Philadelphia }		Dark " @ 15 00
" dark.....	15 00 @ 16 00	40 00 @ 45 00 }		Frosted @ 15 00
" red.....	15 00 @ 16 00	Phila. mould }		22 00 @ 26 00
Chicago pressed (Anderson).....		50 00 @ 80 00 }		Best Paving @ 16 00
Chicago Moulded.....				Second " @ 14 00
Baltimore.....	7 00 @ 41 00	Anderson		Third " @ 13 00
Philadelphia.....	@ 22 00	14 00 @ 32 00		Dom. { @ 65
Trenton.....	@ 22 00			85
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. east.)				
Rosendale Cement.....	1 20 @ 1 25	1 20 @ 1 40	Not Sold.	1 30 @ 50
Louisville.....		Brooks, S. & Co	1 05 @ 1 30	1 30 @ 200
Utica, Akron, Buffalo, Milw'kee.....	Not sold.	2 60 @ 3 00	1 00 @ 1 25	1 35 @ 3 25
Portland, English (Gibbs).....	2 50 @ 3 00	2 60 @ 3 00	2 75 @ 3 25	2 85 @ 3 15
" (K. B. & S.).....	2 50 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" Black Cross.....	2 25 @ 2 50	2 60 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" (Burham).....	2 50 @ 2 80	2 60 @ 3 00	2 90 @ 3 15	2 75 @ 2 85
" (White's).....	2 65 @ 3 00	2 60 @ 3 00	3 00 @ 3 25	
" French (Lafarge).....	3 60 @ 3 75	3 15 @ 3 35	3 75 @ 4 25	Hemmoor
" German (Alsen).....	2 90 @ 3 25	3 00 @ 3 50	3 30 @ 3 40	2 50 @ 2 75
" (Fowler).....	2 25 @ 2 40	3 15 @ 3 35	3 30 @ 3 40	2 75 @ 2 85
" (Vorwoller).....	2 50 @ 2 90			Josson
" (Lagerdofer).....	2 90 @ 3 25	Cleopatra	2 75 @ 3 00	2 50 @ 2 75
" (Dyckerhoff).....	2 50 @ 3 00	2 55 @ 3 00	3 25 @ 3 50	3 00 @ 3 25
" (Hanover).....	2 35 @ 2 85	3 00 @ 3 50	Not Sold.	2 75 @ 2 85
" Stettin, (Anchor).....	2 15 @ 2 45		Not Sold.	
" American (Saylor's).....	2 75 @ 3 00	2 15 @ 2 50	2 75 @ 3 00	2 50 @ 2 75
Roman.....	2 75 @ 3 00	3 00 @ 3 50	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse.....	5 75 @ 6 50		6 00 @ 7 00	6 50 @ 7 00
" superfine.....	9 25 @ 10 25		9 @ 10 50	8 00 @ 9 00
LIME.				
Lime of Tell.....	3 50 @ 4 00		Not sold.	White Lime
Hydraulic Lime.....	@ 1 45	@ 1 35		25 @ 30 @ bush
Chicago Lime in bulk.....		St. John 1 00	55 @	White Mass
Wisconsin.....	@ 1 00		60 @	1 25 @ 1 50
Rockland and Rockport, (Com.).....	@ 1 20	@ 1 05	Not sold.	1 00 @ 1 00
Rockland and Rockport, finish.....	@ 1 20	@ 1 10	Not sold.	
Kelley Island Lime, finish.....	@ 1 10	@ 1 20	Not sold.	
State, comm. cargo rates (nom.).....	@ 85	Not sold.	1 00 bulk, 75c.	Not sold.
State, finishing.....	1 20 @ 1 25	Not sold.	Not sold.	Not sold.
Plaster of Paris (calcined).....	1 30 @ 1 35	1 85 @ 2 00	1 55 @ 1 90	1 50 @ 2 25
" (casting).....	12 @ 15	2 25 @ 3 00	1 85 @ 1 90	1 75 @ 2 50
Hair (Cattle) @ bush.....	22 @ 25	25 @ 30	30 @ 35	30 @ 35
" (Goat).....	1 00 @ 1 25	1 75 @ 1 90	30 @ 55	30 @ 35
Sand, @ load.....			@ 50	@ 1 50
STONE. (P. cubic feet, rough.)				
Granite: (Maine)		@ 60		55 @ 65
Limestone:				
Bedford.....	45 @ 1 25		50 @	75 @ 90
Bedford.....	@ 1 00	95 @ 1 00	35 @ 55	75 @ 1 05
Joliet.....			35 @ 60	4 50 @ Perch
Lemont.....			1 00	
Serpentine.....				

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Red 3				
White 1 1/2				
Foundation.				
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Block.		4 60 7 perch		1 45 2 50
Rubble.		1 25 1 50	8 50 00	
Binestone (7 sq. ft.)		40 1 75	75 1 00	1 in. th. 10 25
Sidewalk.	30 50 5 00		50 1 00	37 50
Planed.	50 6 00			
Sandstone.				
Longmeadow.	80	80 90		95 1 16
Kibbe.	90	90 1 10		1 05 1 35
Brown (Connecticut).	1 00 95	1 25 1 45	1 50 7 cub. ft.	
Amherst.	90 95	90 1 00	45 50	55 1 00
Brae.	75 1 00	80 90	45 55	
Berlin.	75 1 00	80 90	55 65	
Bellefonte.	80 1 25	1 25 1 35	65 1 25	
New Brunswick (Dorchester).	100 1 00	75 90		1 10 1 1
Caen.	100 1 00	2 00		1 00 1 1
Carlisle, English.	1 05	1 05		1 25 1 1
Corse Hill (Scotch).	1 05	1 05		95 1 1
Marble (7 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	350 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.	4 00 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
State, Roofing (7 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	7 50 10 25
black, Lohigh.	4 25 4 75		6 25 6 85	3 25 4 00
Chapmans.			7 00 8 00	4 00 4 65
Unfading Black, Monson, Me.	5 50 8 00	5 50 8 00	7 00 9 00	5 50 8 00
Tiles, Am.			Not sold.	6 00 25 00
N. Peach Bottom, warranted unfading				6 00 6 75
PAINTS. (In oil, 7 lb.)				
White lead, Am.	7 00 7 1/2	7 1/2	6 1/2 7	7 7
Zinc.	5 00 7	7 1/2	6 1/2 10 1/2	7 7
Red lead, Am.	8 00 10 1/2	7 12	14 21	8 8
Vermilion.	65 70	72 75 dry	65 68	66 66
Red Indian, Eng.	12 20	12 20	12 20	7 7
Yellow Ochre.	6 15	7 12	3 15 15	14 14
Chrome.	12 20	18 25	15 25	12 12
Green (chrome).	8 13	8 20	8 30	20 20
Green, Paris.	25 40	25 40	18 35	12 12
Black, lamp.	15 25	15 25	8 30	12 12
Blue, ultramarine.	12 18	18 30	12 35	20 20
Oil, linseed, (raw)	59 63	61 62	57 60	58 58
boiled.	62 66	64 65	61 63	61 61
Turpentine.	41 45	46 47	51 51	50 50
Varnish, coach.		1 50 6 00	1 25 2 00	3 00 3 00
Shellac.		2 50 3 00	2 25 4 00	2 75 2 75
Putty.	2 4	2 4	1 1 1/2	2 2
Whiting.	75 1 00	2 1 1/2	1 1 1/2	1 14
Paris white, (Eng.)	1 30 2 00	2 3	1 1 1/2	1 14
Litharge, Am.	14 20	14 30	4 16	7 7
Sienna (burnt).	14 20	14 30	2 10	14 12
Umber.				
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Nails: (Per Cask.) Spikes, (wrought.)	2 85		2 05 2 15	pr kg 2 25
10d. common.	2 60	3 30	2 15	2 30
Shingle.	3 35	2 50	2 05	2 60
Lath.	4 85	3 70	3 55	3 00 4 75
Finishing nails according to size.			Add .85 to \$1.15	per lb 4 6
(For casing nails add 75c. per leg.)			.50 to .90	Add pr cask
Butts: 4" x 4" (7 doz. pairs.)				2 90 (all kinds.)
Plain.	1 00	1 20	65 1 00	90 90
Japaned.	1 50	1 75	Not sold.	1 35 2 00
Acorn, Japaned.	1 50	1 90	2 00 3 75	1 35 2 75
Ball Tip, Boston Finish. (7 pair.)	65	50	Not sold.	48 50
Bronze metal.	1 10	plain 1 65	2 00 3 25	1 25 1 25
Brass (or supboards).	10	10	12	1 00 1 00
Ebony.				35 35
Apple wood.				37 1 00
Knobs: (7 Set.)				
Mineral, best.	8	8	8 10	Not sold.
Lava.	50	75	65 80	25 50
Hemlock.	Not sold	17 35	31 40	100 2 50
Porcelain.	30	30	Not sold.	1 75 2 00
Glass, solid.	Not sold	88 1 00	Not sold.	50 3 50
Glass, silvered.	Not sold	50 3 00	50 2 50	75 1 25
Bronze metal.	75 2 00	50 3 00	1 50 3 00	13 16
Brass.	1 00 2 50	50 3 00	13 00 15 %	6 6
Solder:				
Sheet Lead.		6 1/2	7	
Lead Pipe.			6 1/2	
Iron:				
1 Beams, up to and including 30 ft.	3 3-10 34	3 1-10	3 3-10 3 70	2 8-10
1 Beams, over 30 ft. 1, 1, 1 c. advance.	3 3-10 34	3 1-10		2 4-10
Channel Beams.				2 4-10

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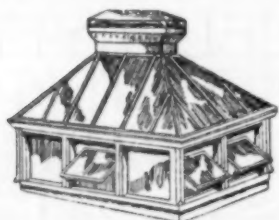
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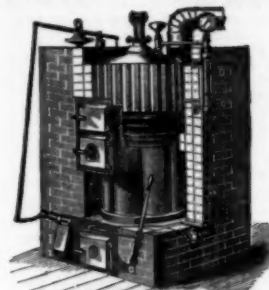
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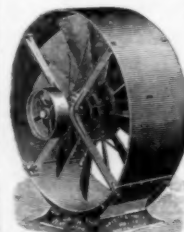
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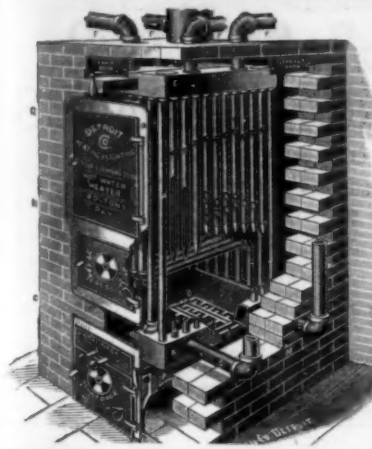
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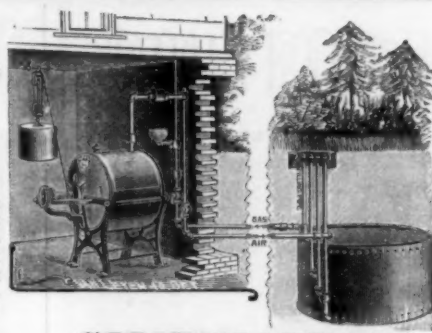
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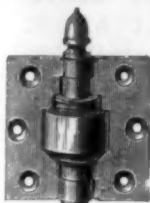
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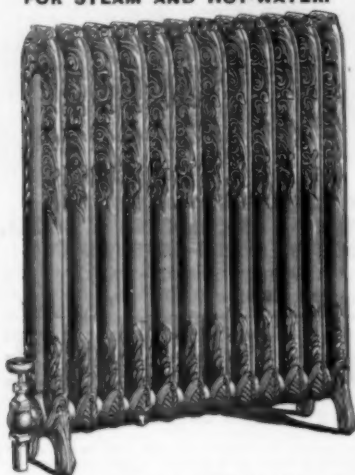
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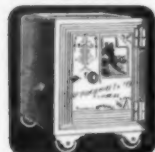
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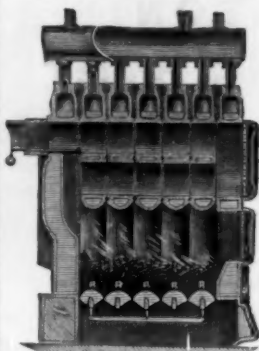
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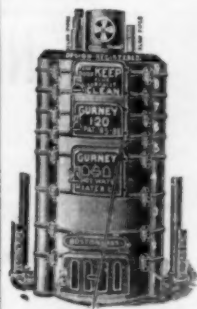
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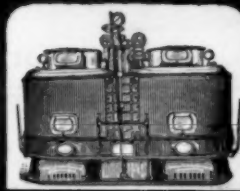
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German Evangelical St. Lucas Church, one-and-one-half-sty dwell., Sixty-second and Green Sts.; cost, \$1,200.

J. C. Lewis, two-sty dwell., Selwin St., near Montrose St.; cost, \$1,500.

Frank Hopkins, two-sty dwell., Park Ave., near Mowry St.; cost, \$1,500.

Elizabeth Barnes, two-sty dwell., Central Park Ave.; cost, \$1,300.

J. Sogerlof, one-sty cottage, 244 Clifton Ave.; cost, \$1,400.

Chas. Thornton, two-sty cottage, Sherman and Seventieth Sts.; cost, \$1,200.

John Price, one-sty cottage, 203 Richmond St.; cost, \$800.

Chas. Johnson, one-sty cottage, Aberdeen and Fifty-seventh Sts.; cost, \$900.

William Gleason, two-sty dwell., Sixtieth St., near Mowry St.; cost, \$1,500.

Robert Bevandt, two-sty cottage, Western Ave. and Thirty-fifth St.; cost, \$1,000.

Vaskowski & Duga, 2 one-sty cottages, Wood and Forty-eighth Sts.; cost, \$2,200.

John Solett, three-sty dwell., 515 Jackson St.; cost, \$8,000.

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Olsen & Scherg, 2 one-sty cottages, Kimball Ave., near North Ave.; cost, \$1,500.

Ellen Lynch, two-sty cottage, Tracy Ave., near Fifty-eighth St.; cost, \$900.

E. K. Rider, two-sty dwell., Graceland Ave. and Perry St.; cost, \$1,800.

L. Portmen, two-sty dwell., 377 Goodwin St.; cost, \$4,000.

Mrs. S. T. Watkins, two-sty and basement dwell., Lawrence and Forty-third Sts.; cost, \$5,000.

C. J. Woodward, one-sty cottage, 1583 Harrison St.; cost, \$1,000.

R. W. Weld, 6 three-sty and basement dwells., Madison Lake Ave.; cost, \$27,000.

E. J. Elerton, two-sty and cellar dwell., 7225 Rhodes Ave.; cost, \$4,000.

John H. Stack, 2 three-sty and basement dwells., 38 Bellevue Ave.; cost, \$5,000.

C. O. Closter, five cottages, Mead and Wentworth Sts.; cost, \$5,000.

E. S. Zarlott, 2 two-sty and basement dwells., Goldsmith and Seventy-fifth Sts.; cost, \$10,000.

J. E. Thorndell, one-sty cottage, Forty-eighth and Ida Sts.; cost, \$1,000.

C. S. Rundell, two-sty dwell., Fortieth Pl. and Randolph St.; cost, \$1,500.

S. Bowen, two-sty dwell., Pallis Ave. and Pittsfield St.; cost, \$1,800.

M. Lenney, one-sty cottage, Forty-eighth St., near Wallace St.; cost, \$1,000.

C. D. Snapp, two-sty dwell., Seventy-first St., near Vincennes St.; cost, \$1,500.

C. G. Gostupin, two-sty cottage, Troop St., near Sixtieth St.; cost, \$1,800.

A. McCormick, 6 one-sty and basement cottages, Sherman and Fifty-third Sts.; cost, \$6,000.

O. D. Snapp, two-sty and cellar dwell., Webster Ave. and Seventy-second St.; cost, \$4,500.

John H. Weiss, two-sty dwell. and barn, 4119 Drexel Bou.; cost, \$4,000.

O. Olson, two-sty dwell., Ballou St. and Armitage Ave.; cost, \$1,000.

Mrs. D. A. Kitton, two-sty and basement dwell., Woodlawn and Polk Sts.; cost, \$2,500.

Bertha Bidlin, one-sty and basement cottage, 92 Wender St.; cost, \$1,500.

S. A. Kunz, one-sty and basement dwell., 1619 Robey St.; cost, \$1,100.

P. W. George, two-sty dwell., Maple and Wood Sts.; cost, \$3,500.

M. Carleton, two-sty dwell., Green and Eighty-sixth Sts.; cost, \$1,800.

(Continued on page xviii.)

TIN ROOFS.

In the matter of roofing material no appliance has been found so suitable and useful as

TIN PLATES.

But since the war in this country, an inferior and defective article has been imposed on consumers by dishonest importers in order to sell at lower figures. Of course, this in the end proved not only unsatisfactory but far more expensive. It costs just the same to lay plates that have been sufficiently coated and properly made as it does to put on those thinly coated and full of small openings on the surface which readily admit of the access of air and moisture speedily producing rust and disintegration. In this case, as in most, if not all, others true economy consists in employing the best material.

Architects and builders are fully aware of these facts and when not interfered with by a misguided owner will use none but the best tin plates. Such plates have long been placed on the American market and their excellence sustained and use advocated by Messrs. Merchant & Co., an old and reliable metal firm of Philadelphia. Their tin plates are rapidly being employed on roofs in Dubuque and the northwest. Such tinnners as are high minded and above the meanness of injuring their reputation by gaining a temporary advantage use these plates and even guarantee their work for a period of ten years.

A writer recently in a Pittsburgh paper unsolicited and without the knowledge of Messrs. Merchant & Co., thus bears testimony to the superiority of the tin brands of these gentlemen:

It was the house of Merchant & Co., of Philadelphia, that instituted the practice of guaranteeing every box of plates, then stamping the brand and thickness on every sheet, and excluding wasters or defective sheets, and, lastly, by branding the net weight of 112 sheets on each box, to satisfy the customer (in this age of light-weight plates) that he obtained full weight and just what he paid for. The action of the firm was at once a stab at the dishonesty in tin plates and is being felt from ocean to ocean. The firm now come out with the broad declaration for the benefit of those that want the very best roofing plates, that what they assert and claim that they are prepared to prove, that there are no other brands of roofing tin offered in the market to-day, by any firm, under the four different guarantees given by them, and they challenge public contradiction of the statement.

Their brands are "Gilbertson's Old Method," "Merchant's Roofing," and "Camaret." The writer has given this matter a great deal of attention in the past few years, and he has no hesitancy in stating in these columns, and without favor to this house or partiality to them in any way, that he does not for a single moment question the veracity of these statements, but asserts that he knows them to be the truth, the whole truth and nothing but the truth.—*The Dubuque Trade Journal*, Jan. 1890.

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J. E. Tracy, one-sty cottage, 1328 Park St.; cost, \$1,000.
Anton Baronowski, two-sty dwell., Superior and Eighty-third Sts.; cost, \$1,500.
P. Lawrany, one-sty and basement dwell., 588 Washburn St.; cost, \$2,000.
Ulrick Frank, 2 two-sty cottages, Mead and Cortland Sts.; cost, \$2,000.
L. Ord, one-sty cottage, 21 Bismarck Ct.; cost, \$1,100.
Cincinnati, O.—John Adam, dwell., Jefferson Ave.; cost, \$5,500; architect, Rieg & Marty.
Mrs. M. B. Waldron, two-and-one-half-sty dwell. and one-sty shop, McMillan St.; cost, \$2,500; architect, L. W. Waldron.
Mrs. F. E. Roberts, two-and-one-half-sty dwell., Sixth St.; cost, \$5,000; architect, S. Hannaford.
Jos. H. Voss, two-and-one-half-sty dwell., Morman Ave.; cost, \$5,500; architect, Emil G. Rueckert.
B. Meyer, three-sty dwell., Warsaw Pike; cost, \$6,000; architects, G. & A. Brink.
Jos. C. Butler, 5 two-and-one-half-sty dwells., McMillan St.; cost, \$16,000; architect, W. W. Franklin.
Jos. C. Butler, double two-and-one-half-sty dwell., Auburn Ave.; cost, \$9,000; architect, W. W. Franklin.
Mrs. John Kyle, double two-and-one-half-sty dwell., Oak Ave.; cost, \$9,000; architect, W. W. Franklin.
Mrs. John Kyle, three-and-one-half-sty dwell., Gilbert Ave.; cost, \$4,500; architects, Blee & McMillen.
Dietrick Imholz, dwell., Peete St.; cost, \$3,500; architects, G. & A. Brink.
James Griffith, dwell., Ingleside St.; cost, \$8,000; architect, Sam. Hannaford.
Edward Meyers, frame dwell., Borden St.; cost, \$2,000; architect, Conrad Seyfried.
Craigville, Mass.—Frame dwell. for E. H. Garrett; contract to be let; architects, Rand & Taylor, Boston.
Denver, Col.—South Fourteenth St., cor. Fourteenth Ave., three-sty stone dwell.; cost, \$8,000; owner, Bell estate; architect, Robert S. Roeschlaub.
South Fourteenth St., bet. Thirteenth and Fourteenth Aves., 7 three-sty brick, stone and terra-cotta dwells.; cost, \$54,300; owner, Bell estate; architect, Robert S. Roeschlaub.
Logan Ave., bet. Second and Third Aves., two-

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st'y brick dwell.; cost, \$5,500; owner, P. D. Zimmer; architect, J. D. Huddart.
Market St., near Twentieth St., two-sty brick dwell.; cost, \$5,500; owner, Jas. Smith; architect, F. Goodnow.
Washington Ave., cor. Sixteenth Ave., three brick and stone dwells.; cost, \$12,100; owner, Benn Brewer; architect, Robert S. Roeschlaub.
Colfax Ave., bet. Downing and Marion Sts., seven dwells.; cost, \$43,000; owner, E. B. Light; architect, Robert S. Roeschlaub.
Detroit, Mich.—A. Varney, double brick dwell., 21 and 23 Orchard St.; cost, \$6,000; also brick dwell., 646 Trumbull Ave.; cost, \$3,500.
W. M. Durand, four frame dwells., 81, 83, 101, 105 Schutte Ave.; cost, \$6,000.
Little Rock, Ark.—A. F. Adams, two-sty frame dwell.; cost, \$4,000; architect, Fred J. H. Rickon.
W. B. Ferguson, two-sty frame dwell.; cost, \$4,500; architect, Fred J. H. Rickon.
W. S. Holt, two-sty frame dwell.; cost, \$2,500; architect, Fred J. H. Rickon.
Newton Centre, Mass.—Grant Ave., frame dwell., owner, Mrs. F. A. Foster; carpenter work to be let; architects, Rand & Taylor, Boston.
Newton Highlands, Mass.—Two frame dwells.; owner, M. G. Crane; contract to be let; architects, Rand & Taylor, Boston.
New York, N. Y.—Vanderbilt Ave., w s, 198' n One Hundred and Seventy-seventh St., three-sty brick dwell., tin roof; cost, \$7,000; owner, Richard S. Turner, Vanderbilt Ave. and One Hundred and Seventy-seventh St.; architect, Charles S. Clark, 719 East One Hundred and Seventy-seventh St.
Eighty-sixth St., n s, 200' w Eighth Ave., 2 four-sty brick dwells., tin roofs; cost, \$45,000; owner, Mary C. Morse, 711 North Broadway, Yonkers, Westchester Co., N. Y.; architect, H. Edwards-Ficken, 19 West Twenty-second St.
West End Ave., o s, 20' 11" n One Hundred and Third St., 4 three-sty brick dwells., tin roofs; cost, \$60,000; owners, Walker & Lawson, 792-798 West End Ave.; architect, Ralph S. Townsend, s e cor. Seventy-second St. and Ninth Ave.
West End Ave., n e cor. One Hundred and Third St., three-sty brick dwell., tin roof; cost, \$21,000; owners, Walker & Lawson, 792-798 West End Ave.; architect, Ralph S. Townsend, s e cor. Seventy-second St. and Ninth Ave.
Eighty-third St., s s, 165' w Eighth Ave., 5 four-sty brick dwells., tin roofs; cost, \$91,000; owner, John Livingston, 130 East Seventy-first St.; architects, A. B. Ogden & Son, 1031 Madison Ave.
One Hundred and Forty-seventh St., s s, 279' 6" w St. Nicholas Ave., 4 three-sty brick dwells., tin roofs; cost, \$40,000; owner, D. J. Dwyer, 312 East Fifty-seventh St.; architects, Higge & Rooke, 835 Broadway.
West Ninety-fourth St., No. 47, three-sty brick dwell., tin roof; cost, \$8,500; owners, Davis & Fay, 39 Day St.; architect, Henry Palmer, 9 Day St.
Ninety-second St., n s, 102' e Fifth Ave., 5 four-sty brick dwells., tin roofs; cost, \$116,000; owner, Walter Reid, 1473 Third Ave.; architects, A. B. Ogden & Son, 1031 Madison Ave.

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Madison Ave., n e cor. Ninety-third St., 5 three-sty brick and stone dwells.; cost, \$75,000; owner, Dr. J. V. S. Woolley.
Madison Ave., s e cor. Ninety-third St., 8 three-sty brownstone dwells.; cost, \$120,000; owner, Walter Reid.
Seventy-eighth St., n s, 69' e Tenth Ave., 8 four-sty brownstone dwells., with extensions; cost, \$150,000; owner, W. H. Hall, Jr.
North Adams, Mass.—W. H. Sperry, dwell., Sperry Ave.
Philadelphia, Pa.—Sloan St., w s, n Poplar St., 15 two-sty dwells.; owners, Merritt & Thornton, Fortieth and Poplar Sts.
Nevada St., s s, w Eleventh St., 4 two-sty dwells.; owner, George W. Birch, 1209 Frankford Ave.
Calona St., n s, w Eleventh St., 5 two-sty dwells.; owner, George W. Birch, 1209 Frankford Ave.
Ezekiel St., e s, n Markle St., 3 two-sty dwells.; owner, John Hare, 124 Howard St.
McClellan St., n s, w Nineteenth St., 3 two-sty dwells.; owner, John Willdridge, 1522 South Sixteenth St.
Cantrell St., w s, w Eleventh St., 13 two-sty dwells.; contractors, Durose & Welch, 758 South Broad St.
Pearce St., s s, w Lancaster St., 3 two-sty dwells.; contractors, Dahl & Kidd, 406 South Fifth St.
Snader Ave., n s, w Eighth St., 3 two-sty dwells.; contractor, F. A. Robinson, 1341 South Eighth St.
Mercer St., s s, e Eighth St., 4 two-sty dwells.; contractor, F. A. Robinson, 1341 South Eighth St.
Wharton St., n s, w Eleventh St., 17 three-sty dwells.; owner, C. B. Prettyman, 1232 South Twenty-second St.
Titan St., s s, w Eleventh St., 12 three-sty dwells.; owner, C. B. Prettyman, 1252 South Twenty-second St.
Eleventh St., w s, n Wharton St., 9 three-sty dwells.; owner, C. B. Prettyman, 1232 South Twenty-second St.
Third St., e s, n Wharton St., 4 three-sty dwells.; owner, C. B. Prettyman, 1252 South Twenty-second St.
York St., s s, w Twenty-ninth St., 19 two-sty dwells.; contractor, Wm. F. Albrecht, 2341 North Twenty-ninth St.
Hancock St., e s, n Diamond St., three-sty dwell.; owner, Wm. H. Martin, 2106 Manakin St.
Humboldt St., n s, w Tenth St., two-sty dwell.; contractor, Benj. Walker, 3963 Germantown Ave.
Farragut St., w s, s Springfield Ave., 2 three-sty dwells.; owner, W. S. Kimball, 504 South Forty-second St.
Reservoir Station, Mass.—Anglewood Ave., stone and frame dwell.; owner, J. S. Winn; contract to be let; architects, Rand & Taylor, Boston.
St. Louis, Mo.—Two-sty brick dwell.; cost, \$2,500; owner, George Ames; contractor, Jos. Stauder.
Three-sty brick dwell.; cost, \$30,000; owner, A. C. Cochran; contractors, J. Stewart & Co.
Two-sty brick dwell.; cost, \$2,900; owner, H. Blaha; contractors, F. Voelpel & Son.
Two-sty brick dwell.; cost, \$6,000; owner and contractor, Mrs. Elizabeth Thompson.

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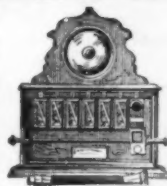
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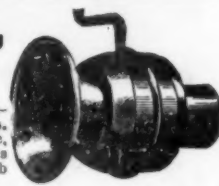


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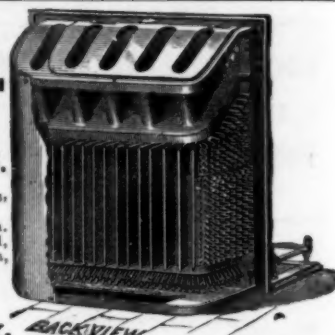
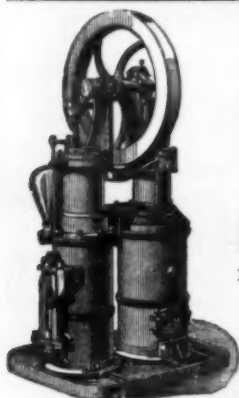
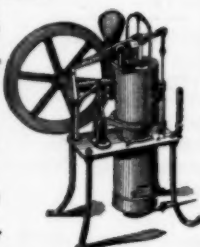
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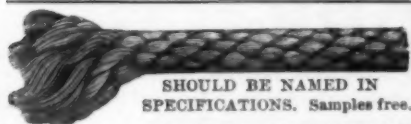
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The American Architect and Building News

IS PUBLISHED EVERY SATURDAY BY

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New Advertisements.

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MANLY MFG. CO. (Dalton, Ga.), Iron-Work. Page xv.

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.

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DRAUGHTSMAN. — Wanted, a first-class draughtsman, one who can make details and work from sketches. Address, stating experience and salary expected, Jos. H. Jackson, Waterbury, Ct. t.f.

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DRAUGHTSMAN. — Wanted, several first-class architectural draughtsmen; permanent positions. Address, stating age, experience and salary expected, Butz & Kauffman, Architects, 800-801 Lewis Block, Pittsburgh, Pa. 744

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DRAUGHTSMAN. — Wanted, a good architectural draughtsman having a knowledge of construction and details for exterior and interior finish, with some experience in out-door work. Address, stating experience, reference and salary expected, D. B. Woodruff, Architect, Macon, Ga. 742

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SUPERINTENDENT'S POSITION. — Wanted by the 1st of May. An experienced architect would like a position as superintendent; thoroughly understands the construction of all classes of buildings; capable of calculating the strength of materials, etc. Address "Architect," 879 Cauldwell Avenue, New York City. t.f.

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DRAUGHTSMAN. — Wanted, a draughtsman good at designing, detailing and the computation of quantities, and thoroughly understanding construction. Address Wm. H. Anderson, Brunswick, Ga. 743

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DRAUGHTSMAN. — Wanted, a good architectural draughtsman having a knowledge of construction. Preference will be given to one having experience on out-door work. Apply, stating experience, reference and salary expected, to "Building," care H. M. Carleton, Esq., 21 Park Row, New York City. 742

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DRAUGHTSMAN. — Wanted, a draughtsman well versed in designing and rendering, in ink and color, interiors in historical styles. Address J. H. Taft, 41 East Twentieth Street, New York City. 742

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POSITION. — Wanted, position by a good architectural draughtsman; South or West preferred. Address H. W. Simpson, New Berne, N. C. 742

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DRAUGHTSMAN. — Wanted, a first-class man of experience and constructional ability for general office-work, including detail; a good position; yearly salary. Address all data, references, etc., to Hazlehurst & Huckel, 410 Walnut Street, Philadelphia. 742

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DESIGNER. — Wanted, in a manufacturing concern building bar fixtures, office furniture, etc., a party to make plans and designs; give age, experience and salary wanted. Address Box 144, Toledo, O. 743

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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.]

ALTERATIONS.

Boston, Mass. — West Sixth St., No. 39. Ward 13, addition to front of frame dwell, and alter first story for store; owner, M. J. Kelley; builder, Thomas J. Murray.

Main St., No. 404, Ward 4, change mercantile building to dwells, and stores; owner, Fred Slater.

Ferrin St., No. 26, Ward 3, alter first floor of frame dwell, for store; owner, Wm. Cummins; builder, John P. Shea.

E St., No. 258, Ward 13, alter first floor of frame dwell, to store; owner, C. J. Blaser; builder, James Bertram.

Brooklyn, N. Y. — Gates Ave., n. s. 146' w. Reid Ave., raised three stories, tin roof and interior alterations; cost, \$5,000; owner, A. Stewart Walsh, 643 Madison St.; architects, Amos Hill & Son, 1161 Fulton St.

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See last or next issue for the following advertisements.

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Harrison Safety Boiler Works.
Alsen's Cement Works.
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BUILDING INTELLIGENCE.

Chicago, Ill. — Elstendorf & Cammen, 2 one-st'y additions, 312-314 West Monroe St.; cost, \$3,000.
David Chantal, one-st'y front addition to cottage, 3006 Butterfield St.; cost, \$1,000.

Detroit, Mich. — Malcomson & Co., two-st'y brick addition, 162 Howard St.; cost, \$3,000.

Holyoke, Mass. — Brick additions to the Holyoke House; cost, \$14,000; owners, Parson Paper Co.; architect, Clough.

Little Rock, Ark. — Jos. Pfeiffer, remodelling dwell.; cost, \$2,000; architect, Fred J. H. Rickon.

New York, N. Y. — Hester St., No. 161, four-st'y brick dwell., altered internally; cost, \$6,000; owner, Samuel Cohen, 230 Henry St.; architect, Arthur Boehmer, 40 South Ninth St., Brooklyn.
Columbia St., Nos. 105-107, two-st'y brick dwell., raised to four stories and other alterations; cost, \$4,000; owner, Henry M. Greenberg, 52 Canal St.; architect, Fred Ebeling, 3 First Ave.

East Sixty-fifth St., No. 62, four-st'y brick dwell., extension; cost, \$8,000; owner, A. D. Oppenheim, 52 East Sixty-fifth St.; architects, Cleverdon & Putzell, 529 Broadway.

East Seventy-ninth St., No. 72, four-st'y brick dwell., extension and internal alterations; cost, \$6,000; owner, Minnie G. Lowenstein, 72 East Seventy-ninth St.; architects, Cleverdon & Putzell, 529 Broadway.

Third Ave., Nos. 2353-2355, 2 four-st'y brick dwells, extensions and other alterations; cost, \$3,000; owner, Christian Brand, 1 West One Hundred and Twenty-fourth St.; architect, Andrew Spence, 163 East One Hundred and Twenty-fifth St.

West Seventeenth St., No. 120, three-st'y brick dwell., extension and internal changes; cost, \$3,500; owner, Austin Hall, One Hundred and Eighth St. and West Boulevard; architect, John H. Hiliker, 122 West Seventeenth St.

Forty-fourth St., Nos. 207-213, one-st'y brick factory, altered internally; cost, \$3,000; owner, John N. Stearna, 10 West Fifty-eighth St.; architect, Daniel Burgess, 240 East Eightieth St.

East Seventy-sixth St., No. 350, two-st'y brick

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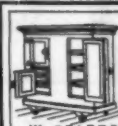
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factory, extension; cost, \$3,000; owner, Patrick Walsh, 350 East Seventy-sixth St.; architect, Edward Wenz, 1491 Third Ave.

Canal St., No. 357, five-sty brick factory, altered internally; cost, \$5,000; owner, Nancy E. Banta, 629 Willoughby Ave., Brooklyn; architect, Chas. Mettam, 305 Canal St.

West Twenty-eighth St., No. 39, four-sty brick store, extension; cost, \$5,000; owner, William Lovell, 31 West Thirty-second St.; carpenter, Edward Smith, 47 Ann St.

Hudson St., s e cor. Franklin St., five-sty brick store and warehouse, raised to six stories and internal alterations; cost, \$20,000; owner, Frederick Bechtel, 336 West Forty-sixth St.; architect, Franklin Baylies, 52 Bible House.

Broadway, No. 765, four-sty brick store, extensive internal alterations; cost, \$10,000; owner, Jane McKensie, Thirty-seventh St. and Broadway; architects, Horgan & Slatery, 12 Roosevelt St.

New St., No. 56, four-sty brick office-building, raised to five stories and internal alterations; cost, \$18,000; owner, B. K. Stevens, 33 West Thirty-second St.; architect and mason, James Stanley, 1 Lincoln Pl.

West Forty-second St., Nos. 53-59, alteration of building into hotel; cost, abt. \$50,000; architects, Lamb & Rich.

Broadway and Thirty-sixth St., Hotel Marlborough enlarged by alterations to the adjoining building on Thirty-seventh St.; cost, abt. \$30,000.

Philadelphia, Pa.—Arch St., No. 810, interior alteration; contractor, Jos. Bird, 1021 Hunter St.

Front St., w s and s v line St., w Front St., three interior alterations; contractor, Jas. Hood, 212 New St.

Twenty-fourth and Chestnut Sts., one-sty addition to depot; owners, B. & O. R. B. Co.; contractor, A. M. Slack, 1532 South Sixth St.

Passyunk Ave., s w cor. Sixth St., interior alteration; contractors, Dahl & Kidd, 406 South Fifth St.

Locust St., s a, w Thirty-ninth St., one-sty addition to church; A. H. Williams & Son, 402 Tenor Pl.

Westminster and Belmont Aves., one-sty addition to church; Jesse P. Danfield, Belmont and Lancaster Aves.

Kensington Ave., No. 2518, front alteration; contractor, Thos. Matthews, 2334 Hancock St.

Sixteenth St., n w cor. Morris St., one-sty front alteration to back building; contractor, John H. Smith, 1028 Cross St.

Forty-sixth St., e s, n Fairmount Ave., one-sty new front to stone dwell.; contractors, C. P. Wells & Son, 4080 Spring Garden St.

Baltimore Ave., n s e Fortieth St., two-sty addition to stable; owner, W. S. P. Shields, 735 Walnut St.

Taylor St., n w cor. Jasper St., addition to factory; contractor, E. Semid, 1713 Mascher St.

Lancaster Ave., No. 3205, new front and mansard roof to stable; owner, Samuel E. Parker, 3219 Market St.

Troy, N. Y.—Remodelling interior of dwelling for J. T. Christie; contract to be let; architect, H. Langford Warren, Boston.

APARTMENT-HOUSES.

Boston, Mass.—Warren St., Nos. 238-248, Ward 21, 6 four-sty brick apartments, flat roofs, 26' x 76'; owner, J. V. N. Stultz; builders, Boquet & Pepin.

Chicago, Ill.—John F. Powell, 4 two-sty flats, 34-40 Powell's Park; cost, \$15,000.

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E. L. Lord, two-sty flats, Winter St., near Seventieth St.; cost, \$1,100.

C. G. James, two-sty flats, 6834-36 Emerald St.; cost, \$8,000.

F. Dowling, three-sty flats, 427 South Paulina St.; cost, \$5,000.

A. W. Rainbow, two-sty flats, 1135 Adams St.; cost, \$4,000.

H. Boeman, three-sty flats, 147 Townsend St.; cost, \$6,000.

John Jinduch, two-sty flats, 651 West Nineteenth St.; cost, 2,800.

John Wagener, two-sty flats, 580 Flournoy St.; cost, \$2,000.

Conrad Suebbe, 2 three-sty flats, 5257 and 5259 Atlantic St.; cost, \$3,000.

A. Fildman, two-sty flats, Mackinaw Ave. and Ninety-eighth St.; cost, \$2,800.

J. A. P. Johnson, two-sty flats, Avenue K, bet. Ninety-eighth and Ninety-ninth Sts.; cost, \$1,000.

Fred Lobell, two-sty flats, Avenue I, near Ninety-fifth St.; cost, \$2,300.

Ludwick Klein, two-sty flats, Heweston St., near Eighty-seventh St.; cost, \$1,500.

B. Rybarczyk, two-sty flats, 8702 Exchange St.; cost, \$2,800.

A. Krummer, two-sty flats, 692 Van Horn St.; cost, \$3,500.

F. Karbowski, two-sty flats, 4834 Cook St.; cost, cost, \$1,400.

Gust. Saskowsky, two-sty flats, Mackinaw Ave., near Eighty-fourth St.; cost, \$300.

Young & Clarkson, 2 two-sty flats, 4324 and 26 Calumet St.; cost, \$7,000.

M. Garzekany, two-sty flats, 8833 Escanaba St.; cost, \$1,300.

P. Kurecki, two-sty flats, 8432 Buffalo St.; cost, \$1,500.

John F. Powers, one-sty flats, 42 Powell's Park; cost, \$10,000.

Thos. Vieland, two-sty flats, 134 Cleaver St.; cost, \$2,500.

J. J. Mulcahy, two-sty flats, 5636 Wabash Ave.; cost, \$3,500.

O. Strassheim, two-sty flats, 1232 George St.; cost, \$2,400.

Herman Staples, two-sty flats, 335 Melrose St.; cost, \$1,800.

Chas. Waller, two-sty flats, 390 Dudley St.; cost, \$1,500.

W. F. Correll, two-sty flats, Douglass Ave., near Irving St.; cost, \$1,600.

H. M. Gonswald, two-sty flats, 786 Seymour St.; cost, \$2,400.

John A. Wendt, four-sty flats, 468-470 Franklin St.; cost, \$12,000.

Phillip Gleason, two-sty flats, 560 Morgan St.; cost, \$3,000.

P. Epstein, three-sty flats, 492 Winchester Ave.; cost, \$6,000.

Mallinda Lumber, two-sty flats, Hartwell Ave. and Sixty-seventh St.; cost, \$2,500.

Edward Dalton, two-sty flats, Eighty-ninth and Exchange Sts.; cost, \$1,400.

W. H. Clark, 2 two-sty flats, 756 and 758 Warren Ave.; cost, \$7,000.

H. M. Gronwald, two-sty flats, 786 Seymour Ave.; cost, \$2,400.

Ernest Gowan, two-sty flats, 3116 Lowe Ave.; cost, \$2,500.

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BUILDING INTELLIGENCE.

E. Burghsen, two-sty flats, 850 Seminary Ave.; cost, \$2,500.

Joseph Gabz, two-sty flats, 4815 Wood St.; cost, \$1,800.

H. Hoon, two-sty flats, 435 Otto St.; cost, \$1,000.

W. Blake, 2 two-sty flats, Otto St., near Ashland St.; cost, \$3,000.

Holyoke, Mass.—L. A. O'Neil, apartment-house, brick and brownstone trimmings, Appleton and Walnut St.; cost, \$25,100.

New York, N. Y.—Forsyth St., Nos. 123-125, 2 five-sty brick flats, tin roofs; cost, \$36,000; owners, Fay & Stacom, 337 Pleasant Ave.; architect, Charles Rentz, 153 Fourth Ave.

Henry St., No. 55, five-sty brick flat, tin roof; cost, \$20,000; owners, Fay & Stacom, 337 Pleasant Ave.; architect, Charles Rentz, 153 Fourth Ave.

Clinton St., No. 91, five-sty brick flat, tin roof; cost, \$18,000; owners, Loomie & Parker, 115 East Eighty-ninth St.; architect, Charles Rentz, 153 Fourth Ave.

West Thirty-sixth St., No. 351, five-sty brick flat, tin roof; cost, \$21,000; owner, James Devlin, 422 West Fifty-fifth St.; architect, James W. Cole, 403 West Fifty-first St.

Norfolk St., No. 152, five-sty brick flat, tin roof; cost, \$20,000; owners, Loomie & Parker, 115 East Eighty-ninth St.; architect, Charles Rentz, 153 Fourth Ave.

Henry St., No. 214, five-sty brick flat, tin roof; cost, \$20,000; owner, Tobias Krakover, 216 Henry St.; architect, Charles Rentz, 153 Fourth Ave.

Monroe St., No. 75, five-sty brick flat, tin roof; cost, \$22,000; owner, Joseph Solomon, 51 East Broadway; architect, Fred Wandelt, 79 East Broadway.

One Hundred and Forty-ninth St., n e cor. Walton Ave., four-sty brick flat, tin roof; cost, \$20,000; owner, Katharine Van Cleave, 588 Mott Ave.; architect, Geo. Martin Huss, 1285 Broadway.

Ninety-eighth St., s a, 1224 e Ninth Ave., five-sty brick flat, tin roof; cost, \$20,000; owner, Alexander Cameron, 76 Eighth Ave.; architect, Henry Davidson, 222 Ninth Ave.

Seventy-sixth St., n s, 115 e Second Ave., 3 five-sty brick flats, tin roofs; cost, \$66,000; owner, William Dempsey, 438 East One Hundred and Thirtieth St.; architect, John C. Burne, 1531 Third Ave.

West Fortieth St., No. 449, five-sty brick flat, tin roof; cost, \$18,000; owner, Adam Geib, 444 West Fifty-fifth St.; architect, James W. Cole, 403 West Fifty-first St.

St. Louis, Mo.—Three two-sty brick flats; cost, \$9,000; owner and contractor, M. B. Scanlan.

CHURCHES.

Atlanta, Ga.—The Sixth Baptist Church will build a brick edifice to cost abt. \$12,000.

Brooklyn, N. Y.—Clinton Ave., n e cor. Greene Ave., through to Waverly Ave., one-sty brick church, metal roof, to be known as The Brooklyn Tabernacle; cost, abt. \$150,000; owners, Brooklyn Tabernacle Board of Trustees, 451 Sixth St.; architects, John B. Snook & Sons, 12 Chambers St., New York City.

Philadelphia, Pa.—Twelfth St., e s, s Walnut St., two-sty church; architect, T. F. Miller, 1221 Arch St.

FACTORIES.

Chicago, Ill.—F. P. Lenter, two-sty factory, 504 Walnut St.; cost, \$1,100.

Cincinnati, O.—Henry Pierce & Sons, two-and-one-half-sty factory, Plum St.; cost, \$3,000; architect, Wm. Mitchell.

Philadelphia, Pa.—Dillwyn St., w s, n Callowhill St., three-sty factory; contractor, M. Schmid, 217 Walnut St.

St. Louis, Mo.—Three-sty brick factory; cost, \$7,000; owners, Dozier-Weyl Cracker Co.; contractors, Cook & Casey.

Roofing Materials.

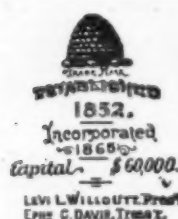
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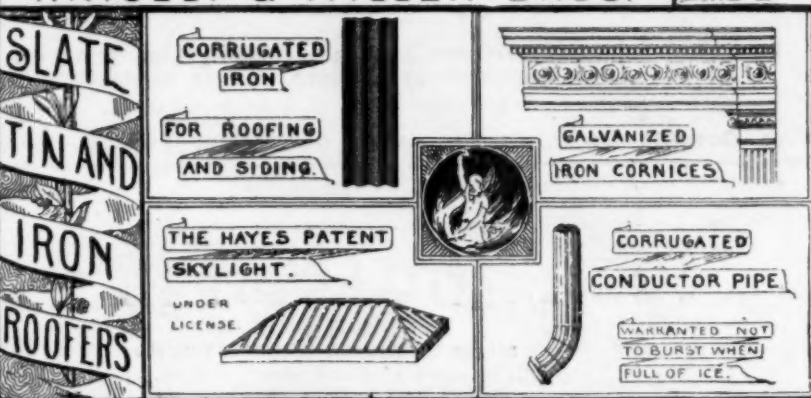
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BUILDING INTELLIGENCE.

Two-sty brick ice factory; cost, \$16,000; owners, St. Louis Brew. Assn.; contractor, C. Wehking.

HOUSES.

Baltimore, Md.—Wm. Gable, three-sty brick buildings, s. a Baltimore St., e Lloyd St.
F. E. Yewell, 23 three-sty brick buildings, n s North Ave., bet. Linden Ave. and Bolton St.

Boston, Mass.—East Broadway, near P St., Ward 14, 3 three-sty frame dwellings, flat roofs, 23' x 53'; owners and builders, Locke & Flint.

Glen Rd., nearly opp. Sigourney St., Ward 23, two-sty frame dwell., mansard roof, 30' x 52.6'; owner, Geo. W. Coffin; builder, T. A. Ross.

North Beacon St., near Market St., Ward 25, two frame dwellings, 19.6' x 44'; owner, William Keillon; builder, James Muldon.

Hallford St., cor. Howard St., Ward 20, frame dwell., 30' x 49'; owner, Asa H. Caton; builder, L. D. Robinson.

Milton Ave., near Wildwood St., Ward 24, three-sty frame dwell., flat roof, 23' x 51.5'; owners and builders, Decker Bros.

Blue Hill Ave., Ward 20, three-sty frame dwell., flat roof, 27' x 50.6'; owner, Patrick Finn; builder, John J. Flynn.

Winship St., near Peaceable St., Ward 25, frame dwell., hip roof, 24' x 45'; owner, James Galligan; builders, Tobey Bros.

Bushnell St., near Rowena St., Ward 24, frame dwell., 27' x 40'; owner and builder, James W. Nisbit.

Eaton Ct., rear Pynchon St., No. 76, Ward 21, three-sty frame dwell., flat roof, 30' x 30'; owner, Patrick Mulvey; builders, R. D. Ward & Co.

Sydney St., e s, bet. Hartland St. and Savin Hill Ave., Ward 24, frame dwell., 20' x 34'; owner and builder, Joseph H. Beale.

Athens St., No. 324, rear, Ward 14, three-sty frame dwell., flat roof, 21.10' x 32'; owner, Ernst Hornel; builder, W. T. Eaton.

Marcella St., No. 65, Ward 21, three-sty frame dwell., flat roof, 22.6' x 47'; owner, John J. Kelley; builders, R. D. Ward & Co.

Chelsea St., No. 101, Ward 3, three-sty frame dwell., 20.4' x 42.6'; owner, William Housch; builder, S. C. Hamilton.

Old Harbor St., No. 61, Ward 15, frame dwell., 22' x 22'; owner and builder, J. A. Allen.

Falcon St., No. 144, Ward 1, frame dwell., 21' x 44'; owner, George Sweeney; builders, Hatt & Rogers.

Atherton St., near Amory St., Ward 23, frame dwell., 27' x 30'; owner, R. S. Barrows; builder, M. A. Blanchard.

Parker St., Nos. 460-462, Ward 22, 2 two-sty brick dwellings, flat roofs, 20' x 32'; owner, W. Gilligan; builder, J. Patton.

Mt. Vernon St., near Pumping Station, Ward 24, frame dwell., 25' x 57.8'; owner, Mary Clark.

Egleston St., near Dalrymple St., Ward 23, frame dwell., 25' x 57'; owner and builder, M. A. Blanchard.

BUILDING INTELLIGENCE.

Middleton Ave., near Norfolk St., Ward 24, frame dwell., 22' x 35'; owner, W. O'Brien; builder, M. McNair.

Custer St., near Goldsmith St., Ward 23, three-sty frame dwell., hip roof, 24' x 41'; owner, J. Mackay; builders, R. D. Ward & Co.

Sarin St., No. 15, Ward 21, three-sty frame dwell., pitch roof, 20' x 54'; owner and builder, W. E. Davis.

Child St., near South St., Ward 23, three-sty frame dwell., flat roof, 23' x 41'; owner, T. J. Tirrell; builder, G. A. Cabill.

East Third St., No. 784, rear, Ward 14, 4 two-sty frame dwellings, flat roofs, 20' x 30'; owner, J. B. McNutt; builder, W. T. Eaton.

Chiswick Pl., near Selkirk St., Ward 25, frame dwell., 42' x 42'; owner, J. T. Brown; builder, W. H. Stewart.

Brookline, Mass. — Buckminster Rd., two frame dwellings, owners, E. W. & H. N. Taylor; contracts to be let; architects, Rand & Taylor, Boston.

Brooklyn, N. Y. — Park Ave., No. 328, n s, 200' w Summer St., four-sty frame dwell., tin roof; cost, \$5,000; owner, Charles C. Grant, 2 Summer St.; architect, Frank Holmberg, 1161 Broadway.

Bushwick Ave., e s, 20' s Schaeffer St., three-sty frame dwell., tin roof; cost, \$5,000; owner, Charles Wehr, Bushwick Ave., near Schaeffer St.; architect, Henry Vollweiler, 14 Elm St.

Schaeffer St., e s cor. Bushwick Ave., three-sty frame dwell., tin roof; cost, \$4,500; owner, Charles Wehr, Bushwick Ave., near Schaeffer St.; architect, Henry Vollweiler, 14 Elm St.

Alabama Ave., e s, 150' s Liberty Ave., three-sty frame dwell., tin roof; cost, \$5,000; owners, Rice Bros., 2729 Atlantic Ave.; architect, W. Danmar, 2921 Atlantic Ave.

Eckford St., No. 297, w s, 200' n Calyer St., three-sty frame building, tin roof; cost, \$5,000; owner, John Wolf, Calyer and Eckford Sts.; architect, Ernest Dennis, 115 Himrod St.

Bushwick Ave., s w cor. McKibben St., 2 four-sty frame dwellings, tin roofs; cost, \$13,000; owner, A. Kraemer, 104 Moore St.; architect, Th. Engelhardt, 905 Broadway.

Jefferson Ave., s e, 300' s Bushwick Ave., 5 two-sty frame buildings, tin roofs; cost, \$3,200 each; owner, R. B. Mueller, 37 Cornelius St.; architect, Mr. Schrompf, 788 Myrtle Ave.

Himrod St., s s, 250' s Central Ave., 5 three-sty frame dwellings, hemlock and tin roofs; cost, \$4,200; owner, J. Vollhardt, 122 Palmetto St.; architect, F. J. Lessing, 952 Broadway.

Conselyea St., s s, 54' s Lorimer St., 6 three-sty frame dwellings, tin roofs; cost, \$4,000; owners, Mitchell & Trim, 83 Morton St.; architect, Henry Vollweiler, 14 Elm St.

Herkimer St., n s, 25' s Utica Ave., three-sty frame building, tin roof; cost, \$5,000; owner, John A. Ripp, 1758 Fulton St.

Bushwick Ave., e s, 25' s Varet St., four-sty

BUILDING INTELLIGENCE.

frame dwell., tin roof; cost, \$5,500; owner, L. Dardo, Broadway and Sumner Ave.; architect, John Platte, 225 Lynch St.

Power St., e s, 62' w Catharine St., four-sty frame dwell., tin roof; cost, \$5,000; owner and architect, M. Schwendel, 641 Grand St.

Bushwick Ave., w s, 99' n Cooper Ave., three-sty frame dwell., tin roof; cost, \$4,500; owner, E. E. Kelly, 713 Gates Ave.; architect, Frank Hemle, 203 Rodney St.

Graham Ave., No. 258, e s, 25' n Majer St., four-sty frame dwell., tin roof; cost, \$5,500; owner, Frank J. Forster, 192 Graham Ave.; architect, F. J. Bulmbach, Jr., 174 Meserole St.

Linswood St., w s, 85' s Ridgewood Ave., 3 two-sty frame dwellings, tin roofs; cost, \$5,800; owner, Isaac Newton, 2921 Atlantic Ave.; architect, Wm. Danmar, 2921 Atlantic Ave.

Throop Ave., w s, 50' s Gerry St., 2 three-sty frame dwell., tin roofs; cost, \$4,500; owner, Michael Zirkle, Throop Ave. and Gerry St.; architects, David Acker & Son, 752-754 Broadway.

Sheffield Ave., w s, 25' s Glenmore Ave., 3 three-sty frame dwellings, tin roofs; cost, \$10,500; owner, George Meyer, Sheffield and Glenmore Aves.; architect, Chas. Infanger, 118 Fulton Ave.

Ridgewood Ave., n w cor. Essex St., two-sty frame dwell., shingle roof; cost, \$3,700; owner, Henry A. Kloppell, 117 Vanderbilt Ave.; architect, Wm. Josiah, Ridgewood Ave. and Essex St.

Bushwick Ave., w s, 50' n Cooper Ave., 2 three-sty frame dwellings, tin roofs; cost, each, \$3,200; owner, E. E. Kelly, 713 Gates Ave.; architect, Frank Hemle, 203 Rodney St.

Cooper Ave., n s, 100' w Bushwick Ave., three-sty frame dwell., tin roof; cost, \$4,200; owner, E. E. Kelly, 713 Gates Ave.; architect, Frank Hemle, 203 Rodney St.

South Third St., s s, 75' w Hevemer St., four-sty brick dwell., tin roof; cost, \$4,200; owner, Mrs. Mary Longstreet, New York City; architects, C. L. Johnson's Sons, 322 Rodney St.

Hancock St., n s, 150' e Howard Ave., 2 four-sty brick dwellings, tin roofs; cost, each, \$15,000; owners, Clark & Newman, Myrtle Ave.; architects, David Acker & Son, 752-754 Broadway.

St. Marks Ave., s w cor. Underhill Ave., three-sty brick dwell., tin roof; cost, \$5,000; owner, Daniel O'Connell, 596 Dean St.; architect and builder, T. A. Remsen, 913 Atlantic Ave.

Atlantic Ave., n s, 40' w Brooklyn Ave., 2 three-sty brick dwellings; cost, each, \$4,000; owner, Joseph D. McCrea, 499 Pacific St.; architect, John Shorrock, 217 Prospect Ave.

Gates Ave., No. 209, n s, 267' e Franklin Ave., three-sty and basement brick dwell., tin or gravel roof; cost, \$7,000; owner, S. M. Fickett, 343A Quincey St.; architect, F. L. Hine, 301 Gates Ave.

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Two-st'y brick dwell.; cost, \$3,000; owner and contractor, J. W. Fitzgerald.
Two-st'y brick dwell.; cost, \$10,000; owner, J. E. McGinnis; contractor, H. Higgins.
Two-st'y brick dwell.; cost, \$5,000; owner, J. E. McGinnis; contractor, H. Higgins.
Two two-st'y brick dwell.; cost, each, \$4,000; owner and contractor, E. B. Williams.
Two-st'y brick dwell.; cost, \$4,200; owner, Mrs. Hanna; contractors, Chapman & Thursby.
Two-st'y brick dwell.; cost, \$5,000; owner, Lucy Brauer; contractors, Wamhoff & Kemmel.
Two-st'y brick dwell.; cost, \$6,200; owner, J. C. Strauss; contractors, H. McCormack & Son.
Two-st'y brick dwell.; cost, \$15,000; owner, Thos. Reyburn; contractors, Goesse & Remmers.

PUBLIC BUILDINGS.

Ashburnham, Mass.—Stevens Library; cost, \$11,000; contractor, P. P. Cummings, Ware; architect, J. M. Currier, Springfield.
Fort Worth, Texas.—The building of a court-house, to cost abt. \$150,000, is contemplated.

SCHOOL-HOUSES.

Cameron, Texas.—The authorities will build a school-house, to cost abt. \$15,000; architects, Larmour & Watson, Austin.

BUILDING INTELLIGENCE.

STABLES.

Brooklyn, N. Y.—Van Buren St., n s, 160' w Reid Ave., three-st'y brick stable, tin roof; cost, \$9,000; owner, A. H. Van Hoesen, 63 Reid Ave.; architect, Th. Engelhardt, 905 Broadway.
Chicago, Ill.—P. Cassidy, one-st'y barn, 3119 State St.; cost, \$1,500.
Cincinnati, O.—Charles Boutet, stable and dwell., Eastern Ave.; cost, \$7,000; architect, S. E. Des Jardins.
New York, N. Y.—West Twentieth St., No. 140, four-st'y brick stable, tin roof; cost, \$18,000; owner, Fred Neumer, 155 West Twentieth St.; architect, J. Kastner, 744 Broadway.

STORES.

Baltimore, Md.—Wm. Peat will build a two-st'y stone building, e s Graves Sts., bet Monument and Madison Sts.
Chicago, Ill.—D. A. Rohn, two-st'y store and flats, 1500-1502 Wabash Ave.; cost, \$10,000.
Cincinnati, O.—S. B. Burnet, store and dwell., Central Ave.; cost, \$3,000; architect, W. S. Towbridge.

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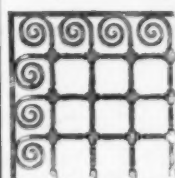
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BUILDING INTELLIGENCE.

New York, N. Y.—Broome St., Nos. 368-379, six-st'y brick store-building, gravel roof; cost, \$42,000; owner, Henry Herrmann, 368 Broome St.; architect, William Graul, 215 Bowery.
Lexington and Dewey Aves. and Forty-third and Forty-fourth Sts., six-st'y brick, stone and terra-cotta fireproof building, with stores on first floor; cost, \$400,000; owners, Robert & Ogden Goellet; architects, De Lemos & Cordes.

TENEMENT-HOUSES.

Arlington, Mass.—Moore St., block of frame tenements; owner, Geo. D. Moore; architects, Rand & Taylor, Boston.

Cincinnati, O.—Henry Lohrey, three-and-one-half-st'y tenement, Hatmaker St.; cost, \$4,000; architects, G. & A. Brink.

J. Boelscher, three-and-one-half-st'y tenement, Hopkins St.; cost, \$4,500; architects, G. & A. Brink.
New York, N. Y.—Alexander Ave., e s, 75' n One Hundred and Forty-second St., 2 five-st'y brick tenements, tin roof; cost, \$18,000; owner, Annie J. Dale, 641 Walton Ave.; architect, W. H. Hornum, 150 East One Hundred and Twenty-fifth St.

THEATRES.

Brunswick, Ga.—It is reported that an opera-house, to cost \$60,000, will shortly be built.

WAREHOUSES.

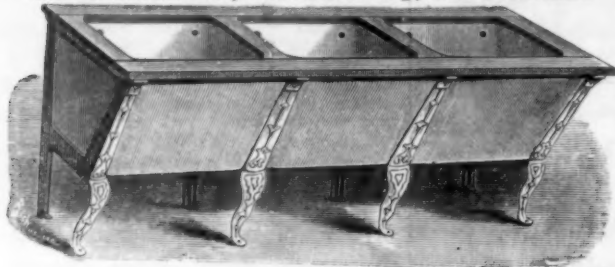
Baltimore, Md.—C. J. Carmine will build a four-st'y brick warehouse, s s Clay St., bet. Park and Howard Sts.

New York, N. Y.—A warehouse is to be built for A. L. & J. J. Reynolds; cost, \$18,000; architect, Chas. Rentz.

MISCELLANEOUS.

Boston, Mass.—Stanhope St., near Morgan St., Ward

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[ESTABLISHED 1861.]
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BUILDING INTELLIGENCE.

11, five-story brick printing-house, 40' x 107'; owners, C. A. White and W. F. Smith; builder, L. C. Knight.

Brooklyn, N. Y.—Building is quiet now, but architects report that clients are talking business very loudly, and the result is that they consider prospects very bright. Most of the new structures are to go up in the suburbs, though several big office-buildings are contemplated in the neighborhood of the City-hall, which is becoming more and more the mercantile heart of the city. Flatbush and Bensonhurst are the two suburbs most prominent when stories of new buildings are in question, and of the two places the latter is in the lead. The entire property covers about a square mile of land, not far from Bath Beach, L. I., and is owned and controlled by one James T. Lynch, who exercises a supervision of a certain sort over the buildings that are to go up. Most of these are of frame, costing from \$4,000 to \$10,000, and the future and present residents of the place are mainly New Yorkers and Brooklynites. In Flatbush, the houses going up are expensive ones, and there is a general tendency to build outside of the city limits. Ground has been broken for the Rev. T. Le Wit's Talmage's new church on the corner of Clinton and Greene Avenues, and the foundation of the corner tower has been laid. J. B. Snook & Sons are the architects. The price of laths has gone up to \$3 a thousand, a figure not reached for many years, owing to the fact that the schooners generally engaged in their freighting are carrying ice instead. A desperate shortage is reported here.

PROPOSALS.

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Sealed proposals will be received at this office until 12 M., on the 31st day of March, 1890, for furnishing and delivering, ready for setting, marble ashlar work for the first story and balustrade of the Massachusetts State-house extension, Boston, Mass., in accordance with plans and specifications, copies of which and any additional information relating thereto, may be had on application at the office of Brigham & Spofford, architects, 27 Mt. Vernon Street, Boston, Mass.

The Commissioners reserve the right to reject any and all bids, and bids received after the time named will not be considered.

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744**IRON PIPES AND FIXTURES.**

[At Fort Worth, Tex.]

Sealed proposals will be received up to the hour, 3 P. M., Monday, March 31, 1890, at the City Water-Works Office, Fort Worth, Texas, by the undersigned Committee and Superintendent, for furnishing all material and appurtenances necessary for constructing 5½ miles of water-mains complete in the ground, according to the plans and specifications on file at the office of the Superintendent.

2. For furnishing the following cast-iron pipe, etc.
190 tons of 6-inch pipe, 33 pounds per foot.
224 tons of 8-inch pipe, 50 pounds per foot.
241 tons of 10-inch pipe, 65 pounds per foot.
103 tons of 12-inch pipe, 82½ pounds per foot.
14 tons of specials.

45 fire-hydrants, with steamer connections (6-inch connection to main).

Twelve 6-inch gate-valves and valve-boxes.

Six 8-inch gate-valves and valve-boxes.

Four 10-inch gate-valves and valve-boxes.

One 12-inch gate-valve and valve-box.

29,211 pounds of lead and 1,777 pounds of hemp packing, F. O. B. cars at Fort Worth.

All proposals to be made on blank forms furnished on application by the Superintendent.

PROPOSALS.

Each bid to be accompanied by a certified check for five hundred dollars as a guaranty that he or they will enter into a good and sufficient bond, to be approved by the Mayor of said city and City Council. The right is reserved to reject any and all bids.

A. W. SCOBLE,
Superintendent.
744**IRON-WORK.**[Near New Orleans, La.]
OFFICE OF THE LIGHT-HOUSE ENGINEER,
SEVENTH AND EIGHTH DISTRICTS,
NEW ORLEANS, LA., February 18, 1890.

Proposals will be received at this office until 12 o'clock, noon, of Tuesday, the 18th day of March, 1890, for furnishing the materials and labor of all kinds necessary for the completion and delivery of the metal-work for the Front Beacon for the Head of the Passes Range-Lights, Louisiana.

Plans, specifications, forms of proposals 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.

W. L. FISK,
Captain of Engineers, U. S. A., Light-House Engineer,
Seventh and Eighth Districts.
742

March 7, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 28th day of March, 1890, for all the labor and materials required to build complete the new stone porch at Church Street entrance to the United States Court-house, Post-office, etc., building at Rochester, N. Y., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect.
743

March 8, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 4th day of April, 1890, for a clock in the tower of the United States Court-house, Post-office, etc., at Carson City, Nev., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect.
743

March 3, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 24th day of March, 1890, for all the labor and materials required to construct complete the iron ceiling framing and the iron partitions in fifth story of the United States Court-house and Post-office building at Pittsburgh, Pa., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also bids which do not comply strictly with all the requirements of this invitation. JAMES H. WINDRIM, Supervising Architect.
742

TO CONTRACTORS AND BUILDERS. Office of the Light-house Engineer, Third District, Tompkinsville, N. Y., February 25, 1890. Sealed proposals will be received at this office until 12 o'clock noon of Saturday, the 15th day of March, 1890, for furnishing the materials and labor of all kinds necessary for the construction, completion and delivery of Coney Island Light-Station, New York, as follows: Item No. 1, founda-

COL. GEORGE E. WAR-
ING, JR., C. E. etc., in his recent work on Sewerage and Land Drainage, in speaking of traps liable to siphonage, says: "the best remedy would be to supply the defective traps at their summits with McClellan's Mercury Seal-Trap Vent, a perfectly safe device, of little cost, simple and easy of application, and sure to supply air when needed."

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PROPOSALS.

tion of tower; item No. 2, erection of tower; item No. 3, keeper's dwelling, including grading; also fog-bell tower and front beacon. Plans, specifications, forms of proposals and other information may be obtained on application to this office. The right is reserved to reject any or all bids. Bids will be received for any part or all, and will be considered by separate items. D. P. HEAP, Major of Engineers, U. S. Army, Engineer Third Light-house District.
742

February 26, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M. on the 21st day of March, 1890, for all the labor and materials required in the erection and completion of the extension of the United States Post-Office, Court-house, etc., building at Detroit, Mich., in accordance with the drawing and specification, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$100. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect.
742

OFFICE-BUILDINGS.[At Atlanta, Ga.]
Sealed bids will be received by the undersigned until 10 o'clock A. M. Thursday, March 20, 1890, for the erection and completion of an office-building in Atlanta, Ga.

Plans and specifications can be seen at the Builders' Exchanges at Cincinnati, O., and Cleveland, O., and at the office of Bruce & Morgan, architects, Atlanta, Ga.

The successful bidder will be required to give a bond of \$10,000.

The right is reserved to reject any or all bids.
M. C. KISER.
742

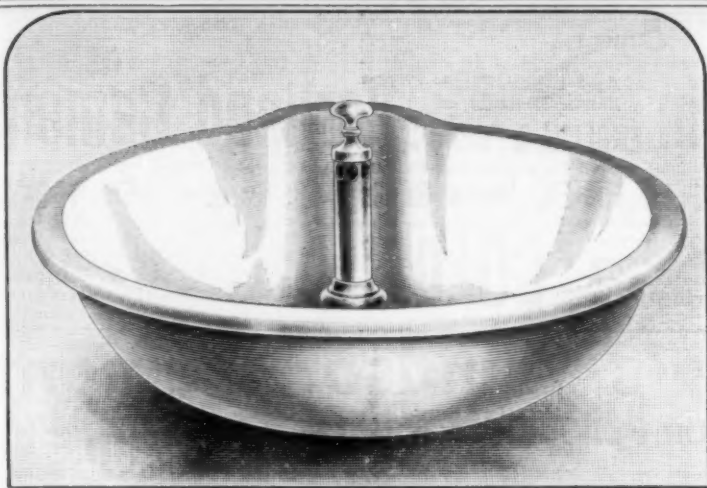


Plate 843 - G. The "SIMPLEX" Recess Basin and Waste. (Patented.)

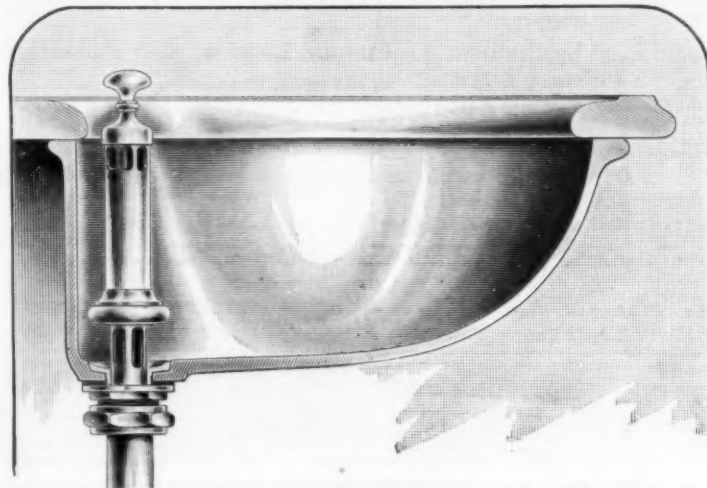


Plate 844 - G. Cross Section of "Simplex" Recess Basin, showing Waste raised as when water is being let out of Basin.

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[See Alphabetical Index on page VII for Pagination.]

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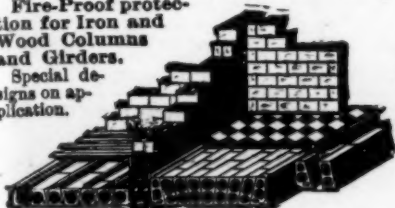
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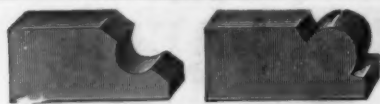
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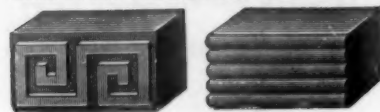
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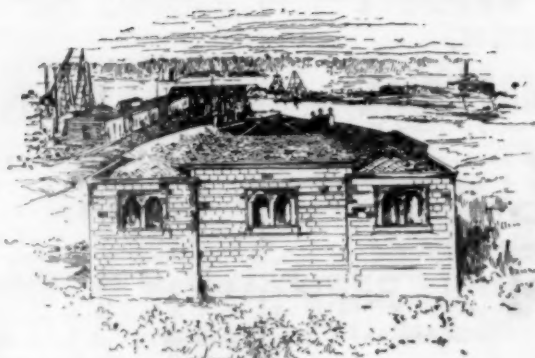


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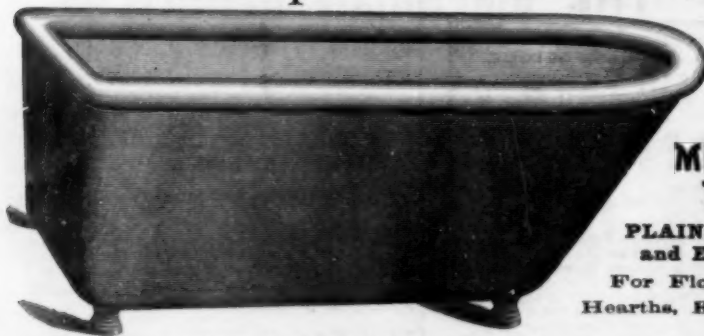
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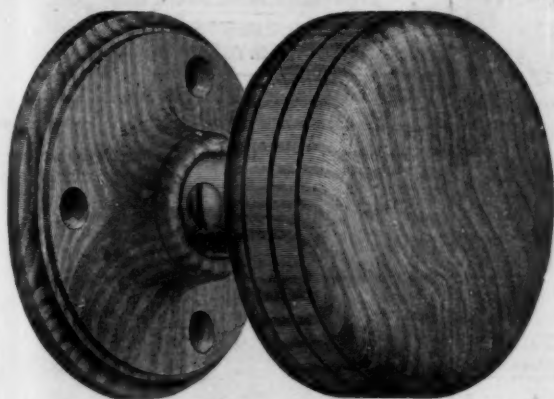
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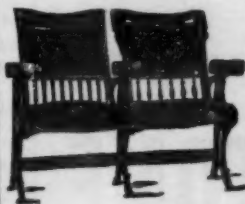
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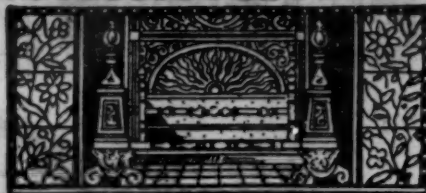
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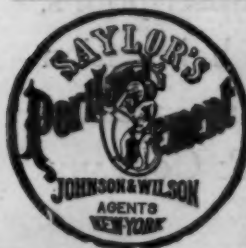
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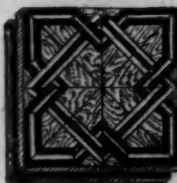
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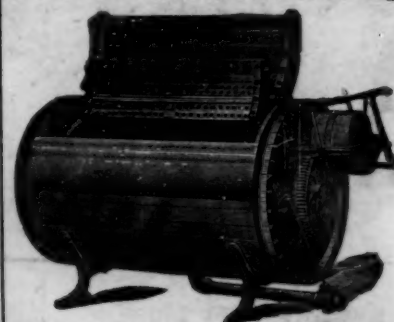
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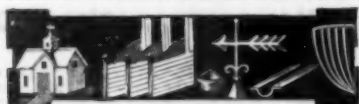
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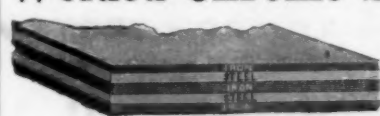
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Utica, Akron, Buffalo, Milw'kee.	Not sold.	2 00 @ 3 00	1 00 @ 1 25	2 85 @ 3 25
Portland, English (Gibbs)	2 50 @ 3 00	2 00 @ 3 00	2 75 @ 3 25	2 85 @ 3 15
" " (K. B. & S.)	2 50 @ 3 00	2 00 @ 3 00	3 00 @ 3 25	2 75 @ 3 00
" " Black Cross	2 25 @ 2 50	2 00 @ 3 00	3 00 @ 3 25	2 85 @ 3 15
" " (Burman)	2 50 @ 2 80	2 00 @ 3 00	3 00 @ 3 25	2 75 @ 2 85
" " (White)	2 50 @ 3 00	2 00 @ 3 00	3 00 @ 3 25	
" " French (Lafarge)	3 50 @ 3 75	@ 5 00	3 75 @ 4 25	Hemmoor
" " German (Alsen)	2 90 @ 3 25	3 00 @ 3 50	3 20 @ 3 40	2 50 @ 2 75
" " (Fawcett)	2 25 @ 2 40	3 15 @ 3 35		2 75 @ 2 85
" " (Vorwoller)	2 50 @ 2 90			Josson
" " (Lagerdofer)	@			2 50 @ 2 75
" " (Dyckerhoff)	2 90 @ 3 25	3 00 @ 3 50	2 75 @ 3 00	3 00 @ 3 25
" " (Hanover)	2 50 @ 3 00		3 25 @ 3 50	2 75 @ 2 85
" " Stettin (Anchor)	2 35 @ 2 85		Not Sold.	
" " American (Saylor's)	2 15 @ 2 45	2 15 @ 2 50	2 75 @ 3 00	2 50 @ 2 75
Roman	2 75 @ 3 00	@ 3 00	2 75 @ 3 25	3 00 @ 3 50
Keene's coarse	5 75 @ 6 50	@ 6 00	6 00 @ 7 00	6 50 @ 7 00
" superfine	9 25 @ 10 25	@ 11 50	9 @ 10 50	8 00 @ 9 00
LIME				
Lime of Tex.	3 50 @ 4 00		Not sold.	White Lime
Hydraulic Lime	@ 1 45	@ 1 35		25 @ 30 @ bush
Chicago Lime in bulk		St. John 1 00	55 @	White Mass
Wisconsin	@ 1 00		60 @	1 25 @ 1 50
Rockland and Rockport, (Com.)	@ 1 20	@ 1 05	Not sold.	1 00 @ 1 00
Rockland and Rockport, finish.	@ 1 20	@ 1 10	Not sold.	
Kelley Island Lime, finish.	@ 1 20	@ 1 20	1 00 bulk, 75c.	Not sold.
State, com. cargo rates (nom.)	@ 85		Not sold.	Not sold.
State, finishing	@ 1 10		Not sold.	1 50 @ 2 25
Plaster of Paris (calcined.)	1 30 @ 1 25	1 85 @ 2 00	1 85 @ 1 90	1 75 @ 2 90
" (casting)	1 30 @ 1 35	2 25 @	1 85 @ 1 90	20 @ 25
Hair (Castin) P bush	12 @ 15	25 @ 30	30 @ 35	30 @ 35
" (Gos.)	22 @ 25	@ 30	30 @ 35	30 @ 35
Sand, P load	1 00 @ 1 25	1 75 @ 1 90	@ 60	@ 1 50
STONE. (P cubic foot, rough.)				
Granite: (Maine)		@ 60		55 @ 60
Limestone:				
Bedford	45 @ 1 25	@ 1 00	50 @	75 @ 90
Joliet	@ 1 00		55 @	Richmond
Lancet			55 @	75 @ 1 50
Serpentine			@ 1 00	4 50 @ Perch

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Butte, Mont. A. Granite St. } Machinery Co.
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Mortar Colors.	(Wholesale Prices.)	(Prices to Builders and Contractors.)		
Black, brown, buff \$ lb.	2 1/2			
Colorful \$ lb.	2 1/2			
Red \$ lb.	3			
White \$ bbl.	1 75			
Foundation:				
Block	500 \$ ton	200		500
Rubble	4 50 \$ perch	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
Planed	50 @ 6 00	75 @ 1 00	50 @ 1 00	37 @ 50
Sandstone:				
Longmeadow	80	80 @ 90		95 @ 1 16
Kilboe	90	80 @ 1 10		1 05 @ 1 35
Brown (Connecticut)	1 00 @ 95	1 25 @ 1 45	1 50 \$ cub. ft.	55 @ 1 00
Amherst	75 @ 1 00	90 @ 1 00	45 @ 55	
Berea	75 @ 1 00	80 @ 90	55 @ 65	
Berlin	75 @ 1 00	80 @ 90	1 25 @ 1 35	1 10 @ 1
Belleville	80 @ 1 25	75 @ 90	"	1 00 @ 1
New Brunswick (Dorchester)	1 00	3 00	"	1 25 @ 1
Olsen	1 05	1 05		95 @ 1
Carlisle, English	1 05	1 05		
Corse Hill (Scotch)	1 05	1 05		
Marble (\$ cu. ft.)				
Leo, Mass.	1 25 @ 1 75	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		2 00	350 @ 6 00	1 70 @ 3 00
Glens Falls, black			Not sold.	4 00 @ 4 50
Italian, blue-veined			Not sold.	3 50 @ 2 75
" Sienna			Not sold.	4 00 @ 5 00
Tennessee, red			Not sold.	4 00 @ 6 00
" Knoxville			Not sold.	2 00 @ 3 00
Pennsylvania, blue			Not sold.	2 25 @ 3 00
Vermont, white			Not sold.	2 30 @ 3 00
Slate: Roofing (\$ square).				
" green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10	3 25 @ 3 75
" unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10	3 50 @ 4 50
" purple	5 00 @ 6 00	5 50 @ 6 50	12 00 @ 14 00	7 50 @ 10 25
" red	10 00 @ 11 00	10 00 @ 11 00	6 25 @ 8 85	3 25 @ 4 00
" black, Lehigh	4 25 @ 4 75		7 30 @ 8 00	4 00 @ 4 65
" Chapmans	5 50 @ 8 00	5 50 @ 8 0	6 00 @ 9 00	5 50 @ 8 00
" Unfading Black, Monson, Me.			Not sold.	6 00 @ 25 00
Tiles, Am.				6 00 @ 6 75
N. Peach Bottom, warranted unfading				
PAINTS. (In oil, \$ lb.)				
White lead, Am.	7 @ 7 1/2	7 @ 7 1/2	6 1/2 @ 7	7 @ 7
" Zinc	6 1/2 @ 7	7 @ 7 1/2	6 1/2 @ 7	6 1/2 @ 7
Red lead, Am.	6 @ 10 1/2	7 @ 12	12 @ 24	dry Eng. @ 8
" Venetian	65 @ 70	72 @ 75 dry	65 @ 68	Eng. @ 66
" Vermilion	12 @ 20	12 @ 20	12 @ 20	dry Am. @ 11
Red Indian, Eng.	6 @ 12	7 @ 12	3 @ 15	15 @ 18
Yellow Ochre	12 @ 20	15 @ 25	15 @ 25	12 @ 15
" Chrome	8 @ 13	8 @ 20	8 @ 20	20 @ 25
Green (chrome)	25 @ 40	15 @ 25	8 @ 30	20 @ 20
Green, Paris	15 @ 25	18 @ 30	12 @ 35	40 @ 58
Black, lamp	12 @ 18	61 @ 62	57 @ 60	40 @ 58
Blue, ultramarine	62 @ 66	64 @ 65	61 @ 63	40 @ 58
Oil, linseed, (raw)	44 @ 45	48 @ 49	51 @ 51	40 @ 50
" boiled	1 50 @ 6 00	1 50 @ 6 00	1 25 @ 2 00	40 @ 50
Tar	2 50 @ 3 00	2 50 @ 3 00	2 25 @ 4 00	40 @ 50
Tarputine	2 @ 4	2 @ 4	62 @ 62 1/2	40 @ 50
Varnish, coach	1 @ 1 1/2	1 @ 1 1/2	1 @ 1 1/2	40 @ 50
Shellac	130 @ 2 00	2 @ 3	1 1/2 @ 2	40 @ 50
Putty	64 @ 6	14 @ 20	4 @ 16	40 @ 50
Whiting	14 @ 20	14 @ 20	2 @ 10	40 @ 50
Paris white, (Eng.)	14 @ 20	14 @ 20		40 @ 50
Litharge, Am.				40 @ 50
Sienna (burnt)				40 @ 50
Umber				40 @ 50
HARDWARE.				
Nails: (Per Cask.) Spikes, (wrought.)	2 85	2 30	2 05 @ 2 15	pr kg @ 2 25
10d. common	2 60	2 50	2 05 @ 2 15	@ 2 30
Shingle	3 35	3 70	2 05 @ 2 15	@ 2 60
Leak	4 85		2 05 @ 2 15	3 61 @ 4 75
Finishing nails according to size.			Add .85 to \$1.15	per lb @ 6
(For casing nails add 75c. per keg.)			".50 to .30	Add pr cask
Butts: 4"x4" (\$ doz. pairs)				2 90 (all kinds.)
Plain	1 00	1 20	65 @ 1 00	1 35 @ 2 00
Japanned	1 50	1 90	Not sold.	1 35 @ 2 75
Acorn, Japanned	1 50		Not sold.	48 @ 50
Ball Tip, Boston Finish (\$ pair)	65	plain 1 65	2 00 @ 3 25	40 @ 1 25
Bronze metal	1 90	10	2 00 @ 12	40 @ 1 00
Brass (18" supboards)	10			40 @ 35
Ebony				37 @ 1 00
Apple wood				
Knobs: (\$ set)				@ 08
Mineral, best	8	75	8 @ 10	Not sold.
Lava	50	31 @ 40	65 @ 80	25 @ 50
Hematite	Not sold	17 @ 30	25 @ 30	100 @ 2 50
Porcelain	30	50	Not sold.	1 75 @ 2 00
Glass, solid	Not sold	1 00	20 @ 1 50	50 @ 3 50
Glass, silvered	Not sold	50 @ 3 00	1 50 @ 3 00	75 @ 1 25
Bronze metal	75 @ 2 00		13 00 @ 15 %	134 @ 16
Brass	1 00 @ 2 50			6 @ 6
Solder:				
Sheet Lead				
Lead Pipe				
Iron:				
I-Beams, up to and including 30 ft.	3 3-10 @ 34	@ 3 1-10	3 28 @ 3 70	@ 2 8-10
T-Beams, over 30 ft. to 4 ft. advances.	3 3-10 @ 34	@ 3 1-10		@ 2 8-10
Channel-Beams				@ 2 8-10

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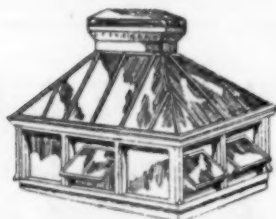
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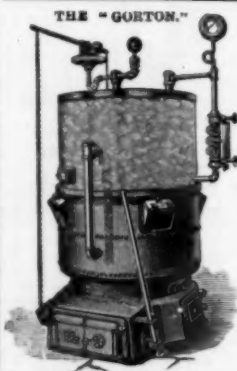
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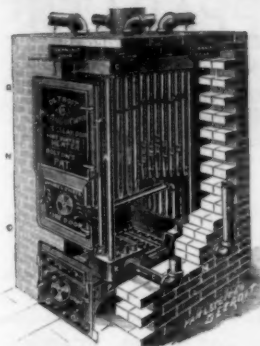
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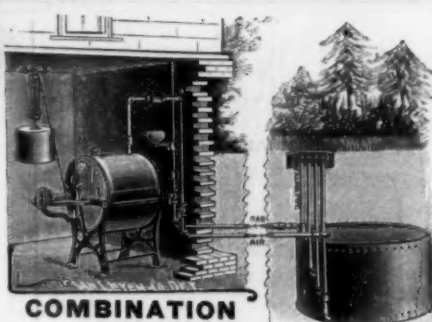
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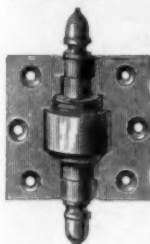


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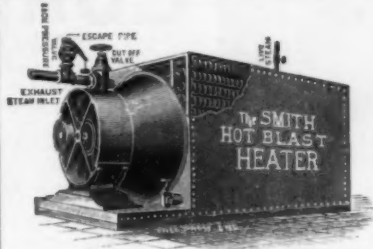
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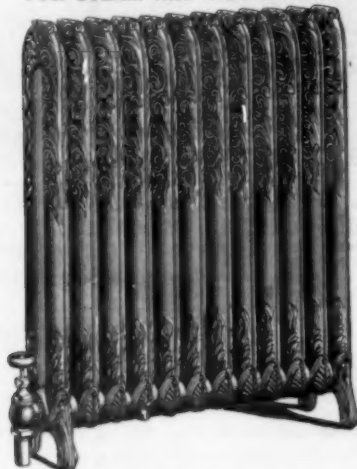
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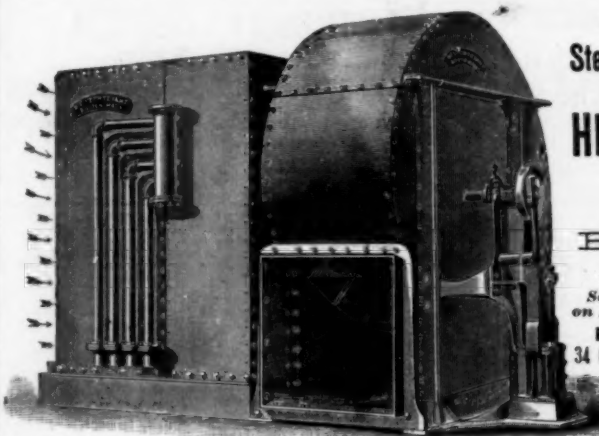
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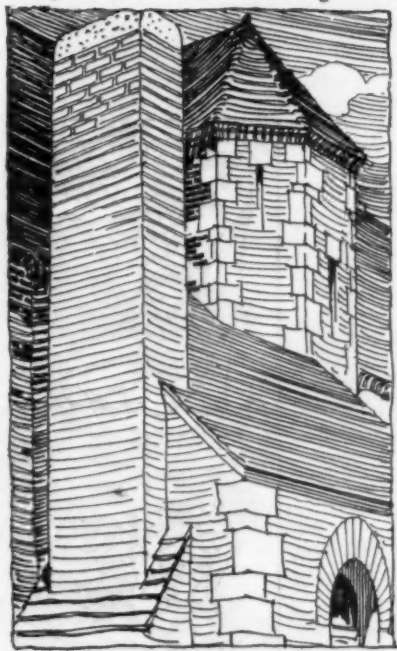
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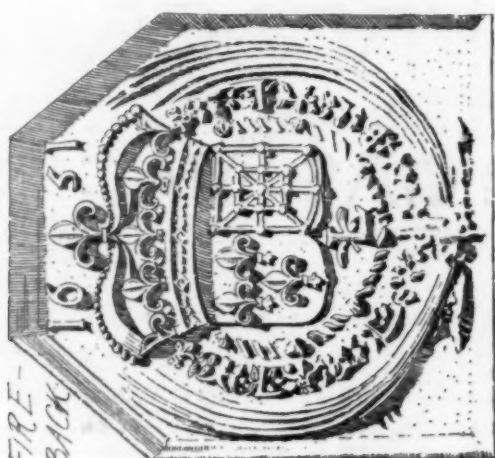
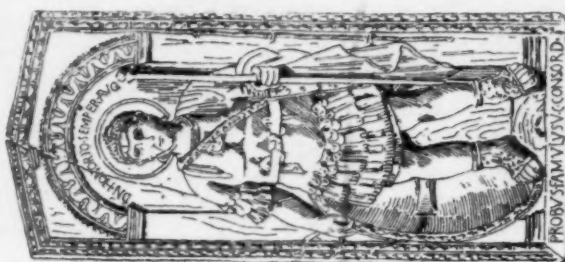
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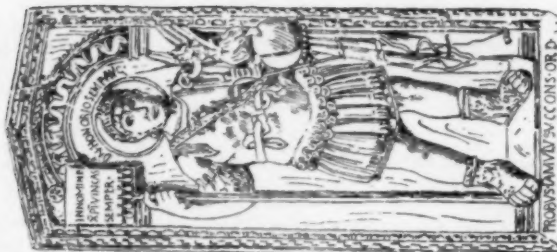


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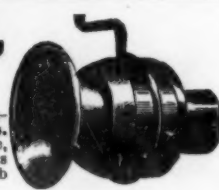


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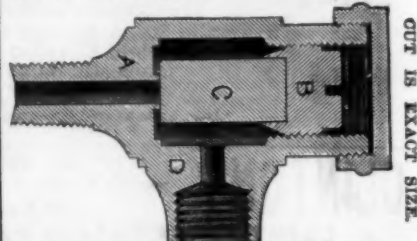
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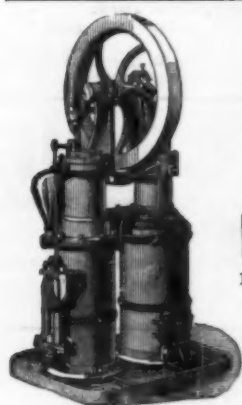
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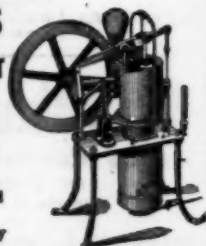
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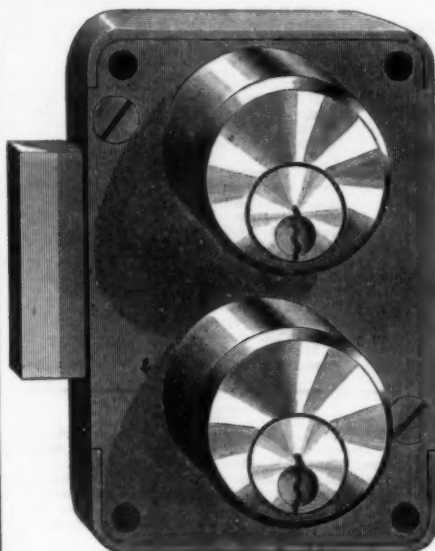
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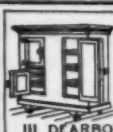
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New York, N. Y.—Madison Ave., s w cor. One Hundred and Sixth St., five-sty brick flat, tin roof; cost, \$22,000; owners, Warner & Stevens, One Hundred and Sixth St. and Fifth Ave.; architect, William Graul, 215 Bowery.
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Avenue A, s w cor. Seventy-sixth St., 2 five-sty brick flats, tin roofs; cost, \$45,000; owner, Mary Conway, 131 West Twenty-eighth St.; architect, G. A. Schellinger, 128 Broadway.
Madison St., No. 133, five-sty brick flat, tin roof; cost, \$20,000; owners, Well & Mayer, 227 East Sixtieth St.; architect, G. F. Pelham, 1481 Broadway.
Oiler St., Nos. 71-73, 2 five-sty brick flats, tin roofs; cost, \$38,000; owners, Well & Mayer, 227 East Sixtieth St.; architect, G. F. Pelham, 1481 Broadway.
Oiler St., No. 74, five-sty brick flat, tin roof; cost, \$20,000; owners, Well & Mayer, 227 East Sixtieth St.; architect, G. F. Pelham, 1481 Broadway.
Seventy-sixth St., 200 e Second Ave., five-sty brick flat, tin roof; cost, \$18,000; owner, M. M. Meukow, 940 Nassau St.; architect, Fred. R. Meres, 198 Broadway.
Ninety-third St., s s 133 e Fourth Ave., five-sty brick flat, tin roof; cost, \$23,000; owner, Arthur Gorsch, 413 East Eighty-sixth St.; architect, Wannemer, 204 East Eighty-sixth St.
One Hundred and Fifty-second St., No. 623, five-sty brick flat, tin roof; cost, \$15,000; owner, Fred Riehl, 54 Suffolk St.; architect, Henry Bruns, 566 East One Hundred and Fifty-seventh St.
West Thirtieth St., No. 251, five-sty brick flat, tin

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roof; cost, \$20,000; owner, Ellen M. Harlow, One Hundred and Sixty-fourth St., near Morris Ave.; architect, M. V. B. Ferdon, 272 West Thirty-fourth St.
Willis Ave., w s 25 e One Hundred and Forty-fifth St., 2 five-sty brick flats, tin roofs; cost, \$48,000; owners, M. C. & C. Kervan, 106 West One Hundred and Twenty-seventh St.; architect, Richard R. Davis, 247 West One Hundred and Twenty-fifth St.
Lexington Ave., s w cor. Ninety-sixth St., five-sty brick flat, tin roof; cost, \$40,000; owner, Francis J. Schuug, 9 East Eighty-fifth St.; architect, Frank Wennemer, 204 East Eighty-sixth St.
Manhattan Ave., s s bet. One Hundred and Thirtieth and One Hundred and Fourteenth Sts., 7 five-sty brownstone front flats; cost, \$200,000; owner, E. P. Briggs; architect, Richard R. Davis.

FACTORIES.

New York, N. Y.—Lexington Ave., Forty-third St., Depot Ave. and Forty-fourth St., six-sty brick factory, asphalt roof; cost, \$375,000; owners, Robt. & Ogden Golet, 501 and 608 Fifth Ave.; lessee, Luberner R. Meztang, 433 East Fifty-first St.; architects, De Lemos & Cordes, 18 East One Hundred and Twenty-eighth St. and 108 West One Hundred and Third St.
Bowery, No. 83, five-sty brick factory, tin roof; cost, \$15,000; owner, Mr. C. E. Middlebrook, Bridgeport, Conn.; lessee, John H. Jube, 162 East Ninety-seventh St.; architect, Albert Wagner, 67 University Pl.
St. Louis, Mo.—Three-sty brick factory; cost, \$15,000; owners, Beattie Mfg. Co.; sub-let.
Three-sty brick ice-factory; cost, \$6,860; owners, St. Louis Brew. Assn.; contractor, George Ibers.
Two-sty brick factory; cost, \$15,000; owners, Standard Stamp Co.; contractor, P. J. Moynahan.

HOUSES.

Athol, Mass.—E. E. Kelton, dwell.; cost, \$8,000.
Baltimore, Md.—Jas. F. Morgan, 6 two-sty brick buildings, w s Charles St., and 4 two-sty brick buildings, n s Clement St., beg. n w cor. Charles and Clement Sts.
Catherine Seecombe, three-sty brick building, s s Orleans St. e Forrest St.
Jas. H. Warthen, three-sty brick building, s s Patterson Ave., bet. Carey and Stockton Sts.
Chas. A. Flagg, 2 two-sty brick buildings, e s Division St., and 2 two-sty brick buildings, w s Eting St., bet. Baker and Gold Sts.
Boston, Mass.—Thetford Ave., near Norfolk St., Ward 24, frame dwell., 24 x 48; owner, F. Pfeiffer; builder, F. Schneider.
Monroe St., No. 48, Ward 21, frame dwell., 31.3' x 40.2'; owner, F. W. Crombie; builder, J. E. Herriek.
West Cottage St., near Dudley St., Ward 20, two frame dwells., 20.6' x 40.6'; owner, J. O'Connor; builders, McGaraghe & Co.
Boylston St., No. 51, Ward 23, three-sty frame dwell., hip roof, 22' x 45'; owner, Miss E. Grady; builder, D. McDonald.
Julian Ave., near Howard Ave., Ward 20, frame dwell., 20' x 42'; owner, F. R. Perkins; builder, F. M. Sutton.
Bower St., No. 101, Ward 21, three-sty frame dwell., 18.10' x 60'; owner, D. A. Dunbar estate; builder, J. McDowell.
Brook St., cor. Unnamed St., near Crosby St., Ward 25, frame dwell., 33' x 38'; owner and builder, M. Quirk.
Hennam St., near Summit St., Ward 23, frame dwell., 25' x 28'; owner, J. R. Kubli; builder, James Hunter.
Beech St., cor. Linden St., Ward 23, frame dwell., 20' x 28'; owner, Sophia E. Willis; builder, R. Willis.
Brook St., near Florence St., Ward 23, frame dwell., 20' x 41'; owner, H. Finch; builder, D. Johnson.
Richards St., near Huntington Ave., Ward 23, frame dwell., 24' x 40'; owner, H. Nelson; builders, Sittig Bros.
Newport St., near Crescent Ave., Ward 24, frame dwell., 21.6' x 42'; owner, Annie Fryer; builder, Frank Fryer.
Centre St., Nos. 79-81, Ward 21, 2 three-sty frame dwells., flat roofs, 25' x 57.6'; owner, F. E. Cole; builder, G. M. Fernald.
Central Pl., off 102 Main St., Ward 5, three-sty framedwell., flat roof, 17' x 30'; owner, J. S. Whitling; builder, J. B. Maynard.
Prior Pl., off Richmond St., Ward 24, frame dwell., 23' x 30'; owner and builder, G. L. Davidson.
Beaumont St., near Adams St., Ward 24, frame dwell., 27' x 31'; owner, H. S. Carruth; builder, F. M. Sovereance.
Spruce St., near Meyer St., Ward 23, frame dwell., 19' x 35'; owner, J. Cromwell; builder, J. P. McDonald.
East Fourth St., No. 922, Ward 14, frame dwell., 30' x 50'; owner, Benjamin Bean; builder, W. L. Floyd.
Whitfield St., near Clarence Pl., Ward 24, two frame dwells., 19' x 42'; owner, Mrs. E. R. Laws; builder, A. C. H. Laws.
Norwood St., near Tolman St., Ward 24, frame dwell., 20' x 28'; owner, Mrs. J. Segge; builder, J. Segge.
Falcon St., near Putnam St., Ward 1, frame dwell., 20.6' x 25.6'; owner, W. A. Newhouse; builder, C. A. Vallie.
Lanark Rd., June, Kilsyth Rd., Ward 25, frame dwell., hip roof, 28.6' x 38.6'; owner, A. M. Wiley; builders, Sullis & Wallis.
Brooklyn, N. Y.—St. Mark's Ave., s s w Underhill St., 5 three-sty brick dwells., tin roofs; cost, each, \$2,300; owner, Daniel O'Connell, 506 Dean St.;

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architect and builder, T. A. Remsen, 913 Atlantic Ave.
Eagle St., No. 183, n s 170' from Oakland St., four-sty frame dwell., tin roof; cost, \$5,250; owner, Francis Gray, 43 St. Mark's Pl., New York; architect, George J. Craigen, 313 Bergen St.
Logan St., w s 350' n Fulton Ave., two-sty frame dwell., shingle roof; cost, \$3,200; owner, Rachel A. Tilton, 20 Rush St.
Dupont St., s s 345' e Franklin St., three-sty frame dwell., gravel roof; cost, \$5,000; owner, J. Ochs, 76 Dupont St.; architect, Fred Weber, 115 Bedford Ave.
Warwick St., w s 150' n Arlington Ave., two-sty frame dwell., tin roof; cost, \$3,200; owner, James L. Newman, Warwick St., near Fulton Ave.; architect, Wm. Danmar, 2921 Atlantic Ave.
Linwood St., w s 100' n Ridgewood Ave., two-sty frame dwell., shingle and tin roof; cost, \$3,300; owner, Wm. McLaughlin, 99 Sheffield Ave.; architect, Charles Meins, 97 Sheffield Ave.
Twenty-fourth St., s s 285' w Fourth Ave., four-sty frame dwell., tin roof; cost, \$5,000; owner, Mrs. Mary Weber, 708 Pacific St.; architect, G. W. Wedekind, 44 Court St.
Graham Ave., n e cor. Majer St., four-sty brick dwell., tin roof; cost, abt. \$7,000; owner and builder, John McQuisat, 257 Humboldt St.; architect, F. J. Berlenbach, 260 Graham Ave.
Stuyvesant Ave., e s 25' n Lafayette Ave., 3 two-sty brick dwells., tin roofs; total cost, \$12,600; owner, H. C. Fortmyer, Stuyvesant Ave., cor. Lafayette St.; architect, Ernest Dennis, 115 Himrod St.
Hancock St., n s 175' e Lewis Ave., 4 two-and-one-half-sty brick dwells., tin roofs; cost, \$20,000; owner, Thomas B. Saddington, 356 Hancock St.; architect, John L. Young, 287 Halsey St.
Tompkins Ave., s e cor. Pulaski St., four-sty brick dwell., tin roof; cost, \$16,000; owner and builder, Richard Healy, 62 Hewes St.; architect, S. D. Reynolds, 363 Fulton St.
Pulaski St., s s 35' e Tompkins Ave., 3 four-sty brick dwells., tin roofs; cost, each, \$10,000; owner and builder, Richard Healy, 62 Hewes St.; architect, S. D. Reynolds, 363 Fulton St.
Washington Ave., w s 52' n Dean St., four-sty brick dwell., tin roof; cost, \$11,000; owner, Sebastian Vollmuth, 618 Washington Ave.; architect, Charles Infanger, 118 Fulton Ave.
Washington Ave., w s 913' n Dean St., four-sty brick dwell., tin roof; cost, \$7,000; owner, Sebastian Vollmuth, 618 Washington Ave.; architect, Chas. Infanger, 118 Fulton Ave.
Sixth St., s s 75' w Fourth Ave., 4 four-sty brick dwells., gravel roofs; cost, \$5,500; owner, John J. Carroll, 22 Manhasset Pl.; architect, J. G. Glover, 186 Remsen St.
Madison St., n s 79' e Tompkins Ave., four-sty brick dwell., tin roof; cost, \$7,000; owner and architect, W. J. Convery, 709 Union St.
Sackett St., s s 80' Smith St., 2 four-sty brick dwells., tin roofs; cost, each, \$12,000; owner and architect, Theo. Pearson, 294 Hoyt St.
Skillman St., No. 222, w s 200' n De Kalb Ave., four-sty brick dwell., tin roof; cost, \$9,000; owner and builder, John J. Bremner, 152 Heyward St.; architects, Billard & Crowell, 90 Broadway.
Chicago, Ill.—F. H. Jakorowski, 2 one-sty cottages, 141-143 North Leavitt St.; cost, \$2,500.
J. S. Matthews, two-sty dwell., 3628 Calumet St.; cost, \$5,000.
P. J. Cedarholm, two-sty dwell., 863 Armitage Ave.; cost, \$2,000.
J. V. Donovan, two-sty dwell., Oglesby St., near Sixty-fifth St.; cost, \$2,500.
John Dalton, one-sty dwell., 1589 Lexington St.; cost, \$1,600.
J. D. Ryan, two-sty dwell., 2029 Butterfield St.; cost, \$5,500.
Trebilcock & Penhallegon, 2 two-sty dwells., Wright St., near Seventieth St.; cost, \$2,800.
Trebilcock & Penhallegon, 2 two-sty dwells., Winter St., near Seventy-first St.; cost, \$6,000.
John Roger, one-sty cottage, 6317 Carpenter St.; cost, \$1,200.
B. Lowry, one-sty cottage, Forty-second St., near Twelfth St.; cost, \$1,400.
W. Nash, two-sty dwell., 15-17 Newport Ave.; cost, \$3,500.

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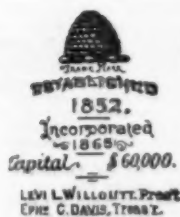
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A. Barnett, two-sty dwell., Sixty-second St., near Lexington St.; cost, \$2,000.
John Warner, one-sty cottage, 5134 Bishop St.; cost, \$1,000.
E. S. Gage, one and two-sty dwells., Sangamon St., near Seventy-first St.; cost, \$4,500.
S. Heyward, one-sty cottage, 1403 Taylor St.; cost, \$1,000.
P. Ruberg, two-sty dwell., 473 Fairfield St.; cost, \$1,800.
H. Francisco, 5 two-sty dwells., 2641-2649 Forest Ave.; cost, \$15,000.
R. Newbauer, one-sty cottage, 423 Springfield Ave.; cost, \$1,000.
J. C. Morper, two-sty dwell., 395 Evanston Ave.; cost, \$9,000.

Detroit, Mich.—R. Nelson, double frame dwell., 142-144 Joy St.; cost, \$4,000; double frame dwell., 881-883 Third Ave.; cost, \$4,500; four frame dwells., 311-13-15-17 Calhoun St.; cost, \$3,300.
A. C. Varney & Co., brick dwell., 30 Elliot St.; cost, \$7,500.
H. W. Holcomb, 2 two-sty frame dwells., 424-430 Lincoln Ave.; cost, \$6,000.

Minneapolis, Minn.—D. A. Pulver, frame dwell., 3245 Second Ave., s.; cost, \$3,500.
D. A. Pulver, frame dwell., 3249 Second Ave., s.; cost, \$3,500.
E. O. Tronerud, frame dwell., 2440-51 Tenth Ave., s.; cost, \$4,000.
J. C. K. Johnson, frame dwell., 1500 James Ave., n.; cost, \$3,700.
T. P. Healy, frame dwell., 3131 Second Ave., s.; cost, \$5,000.

J. A. House, five frame dwells., 516-524 Twelfth Ave., s. e.; cost, \$18,000.
J. H. Edmonds, frame dwell., 74 Fifteenth St., n.; cost, \$4,500.
C. K. Kennedy, frame dwell., 430 University Ave.; cost, \$6,000.

Robt. Perry, frame dwell., 3437 Stevens Ave.; cost, \$3,500.
Robt. Perry, frame dwell., 3433 Stevens Ave.; cost, \$3,500.
T. A. Fetterly, frame dwell., 2107 James Ave., n.; cost, \$3,500.

New York, N. Y.—One Hundred and Forty-seventh St., s. s., near St. Nicholas Ave., 5 three-sty brick

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and stone dwells.; cost, \$90,000; owner, D. J. Dwyer; architects, Higgs & Rooke.
West Fifty-seventh St., Nos. 34-36, 2 four-sty brick dwells., tin tile on tank enclosure roofs; cost, \$105,000; owner, David C. Lyall, 240 President St., Brooklyn; architect, James E. Ware, 45 Broadway.

Seventy-fifth St., s. s., 40' e Ninth Ave., 2 four-sty brick dwells., tin roofs; cost, \$44,000; owner, John C. Umberfield, 216 East Sixty-first St.; architect, Geo. M. Walgrove, 95 Nassau St.

Rider Ave., e. s., 40' s One Hundred and Forty-fourth St., 2 two-sty brick dwells., tin roofs; cost, \$8,000; owner, Michael O'Neill, 452 Rider Ave.; architect, J. F. O'Meyer, 528 Willis Ave.

One Hundred and Twenty-first St., s. s., 60' w Lenox Ave., 5 three-sty brick dwells., tin roofs; cost, \$60,000; owner, James Carter, 17 West One Hundred and Twenty-second St.; architect, Julius Franke, 127 West One Hundred and Twenty-second St.

Ninety-third St., s. s., 105' e Fourth Ave., 2 three-sty brick dwells., tin roofs; cost, \$22,000; owner, Arthur Gorsch, 413 East Eighty-sixth St.; architect, Frank Wennemer, 204 East Eighty-sixth St.

Philadelphia, Pa.—Sixtieth St., e. s., n Sansom St., 5 two-sty dwells.; contractor, Wm. J. Phillips, 2504 Fairmount Ave.

Forty-ninth St., e. s., s Paschall St., 11 two-sty dwells.

Forty-eight-and-one-fourth St., e and w s s Gray's Ferry Rd., 16 two-sty dwells.; owner, W. S. P. Shields, 735 Walnut St.

Fairmount Ave., e Fifth St., 2 two-sty dwells.; contractor, A. G. Fischer, 5613 Vine St.

Sixth St., w s, s Lehigh Ave., 3 two-sty dwells.; contractor, George Mander, Oak Lane Station.

Howard St., e s, n York St., three-sty dwell.; contractors, Wm. Steele & Son, 2436 North Front St.

Jackson St., e s, n Bridge St., two-sty dwell.; contractor, Thos. Waters, Jackson St., ab. Bridge St.

Tackawanna St., e s, n Meadow St., two-sty dwell.; contractor, Thos. Waters, Jackson St., ab. Bridge St.

Clinton St., e s, n Baker St., two dwells.; owner, J. H. Bardens, 3000 Germantown Ave.

Green La., e s, n Wood St., 2 three-sty dwells.; contractor, Frank Gillett, 4707 Smick St.

BUILDING INTELLIGENCE.

Juniata St., n s, w Wayne St., 5 two-sty dwells.; owner, John Priestly, Seventeenth St. and Wyalusing Ave.

Oak La., s s, w Tenth St., three-sty dwell.; contractors, Wm. Steele & Son, 2436 North Front St.

Twenty-second St., e s, s Wharton St., 6 two-sty dwells.; owner, Robert Paul, 2137 Federal St.

Daly St., s s, e Fourth St., 14 two-sty dwells.; contractor, Daniel Main, 911 South Eighteenth St.

Rye St., e s, n Wharton St., two-sty dwell.; contractors, Dahl & Kidd, 406 South Fifth St.

Paul St., s s, w Tacony St., 2 two-sty dwells.; contractor, Benj. Taylor, 2530 Paul St.

Witte St., s s, w Venango St., two-sty dwell.; contractors, S. H. Flood & Co., 3468 Werkel St.

Fourth St., w s, n Indiana Ave., 11 two-sty dwells.; owners, Brocklehurst & Ewing, 514 West Norris St.

Dauphin St., s s, e Sixteenth St., 6 three-sty dwells.; owner, John Stafford, 1606 Susquehanna Ave.

Springfield Ave., n w cor. Forty-eighth St., three-sty dwell.; owner, James D. Arthur.

Atlanta St., s s, w Thirty-sixth St., 7 two-sty dwells.; owner, Wm. J. Shedwick, 618 North Thirty-fourth St.

Mt. Vernon St., s s, w Thirty-fourth St., 2 two-sty dwells.; owner, Wm. J. Shedwick, 618 North Thirty-fourth St.

Roberts Ave., w Germantown Ave., two dwells.; owner, James D. Arthur.

Manayunk Ave., e s, s Hermit St., two dwells.; owner, John Mellowden.

South Front St., No. 1728, dwell.; owner, A. C. Townsend.

K St., s s, n Kensington Ave., dwell.; owner, D. C. Schuler.

Tacony St., n e cor. Frankford Ave., two-sty dwell.; owner, Geo. R. Montieth, 3056 Lawrence St.

Frankford Ave., e s, n Tacony St., 6 two-sty dwells.; owner, Geo. R. Montieth, 3056 Lawrence St.

Forty-second St., w s, n Pennsylvan Ave., 16 three-sty dwells.; contractor, Hartman Grau, 655 Preston St.

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Melrose St., s s, w Fifty-fifth St., 2 two-sty dwell.; owner, Lewis Kirk, 5422 Haverford St.
Young St., e s, a Wolf St., 15 two-sty dwell.; owner, Wm. H. Messick, 331 Tasker St.
Mather St., e s, n Ontario St., 2 two-sty dwell.; contractor, C. B. Prettyman, 1252 South Twentieth St.
Cedar St., e s, n Huntington St., two-sty dwell.; owner, Jas. Callahan, 2523 Cedar St.
South Front St., No. 1728, two-sty dwell.; contractor, A. C. Townsend, 1306 South Sixth St.
South Fifth St., Nos. 1039-41, 2 two-sty dwell.; owner, M. Jennings, 414 Christian St.
Sedgley St., n s, n Diamond St., 15 three-sty dwell.; owner, O. A. Guenther, 2440 Ridge Ave.
Twenty-fifth St., w s, n Jefferson St., two-sty dwell.; owner, Lewis R. Dunn, 832 Burns St.
Brown St., No. 326, three-sty dwell.; contractor, L. Schwab, 940 North Sixth St.
Fernan St., w s, s Federal St., 7 two-sty dwell.; contractor, Danl. Hewn, 1203 South Fifteenth St.
East Second St., w s, s Millin St., 3 two-sty dwell.; owner, P. Moffitt, 1926 East Second St.
Nineteenth St., s s, n Moore St., 4 two-sty dwell.; owner, Geo. A. Wagner, 1554 Bancroft St.
Twenty-seventh St., w s, n Huntington St., two-sty dwell.; owner, Jacob D. Hevener, 3620 North Twenty-seventh St.
Ditman St., w s, n Vankirk St., 2 two-sty dwell.; contractors, Ploucher & Shock, Walker St., Wisconsin.
Eighth St., e s, n Bristol St., 2 two-sty dwell.; contractor, Jos. Heaton, Marshall and Pike Sts.
Chelton Ave., s s, e Chew St., three-sty dwell.; owner, Chas. S. Johnson, Locust Ave.
Mermaid Ave., w Twenty-sixth St., two-sty dwell.; owner, F. W. Helst, Willow Grove Ave.
Bellevue Ave., s s, w Sixty-third-and-one-half St., 5 two-sty dwell.; owner, Chas. R. Buckwalter, Sixty-third-and-one-half and Race Sts.
Seventy-eighth St., s s, e Avenue D, two-sty dwell.; owner, Patrick Lambert, 821 South Eleventh St.
Forty-fourth St., e s, n Wyalusing Ave., 22 two-sty dwell.; owner, E. C. Howell, Bristol Pl.
Forty-third-and-one-half St., w s, n Wyalusing Ave., 16 two-sty dwell.; owner, E. C. Howell, Bristol Pl.
Wyalusing Ave., n s, w Forty-third-and-one-half St., 4 two-sty dwell.; owner, E. C. Howell, Bristol Pl.
Roberts Ave., s s, w Germantown Ave., 2 two-sty dwell.; owner, W. K. Kelly, Roberts Ave.
Manayunk Ave., e s, s Hermit St., 2 two-sty dwell.; contractor, John Millowden, Manayunk Ave.
Weiss St., e s, s Spencer St., 2 two-sty dwell.; contractor, Henry Davenport, Chelton Ave. and Chew St.
Cedar St., w s, n Apple St., 2 two-sty dwell.; contractor, Jos. H. Boone, 3816 Terrace St.
K St., w s, w Kensington Ave., two-sty dwell.; contractor, L. C. Schuler, 2327 North Sixth St.
Eleventh St., s s, n Ontario St., 2 two-sty dwell.; contractor, C. B. Prettyman, 1252 South Twentieth St.
Stern St., s s, e Front St., 17 two-sty dwell.; owner, Samuel H. Brown, 1763 Frankford Ave.
Seventeenth St., e s, n Dauphin St., 17 three-sty dwell.; owner, Christ. Schafer, 1619 Dauphin St.
Mather St., n Ontario St., 2 two-sty dwell.; contractor, C. B. Prettyman, 1251 South Twentieth St.
Palmer St., No. 1206, two-sty dwell.; owner, John F. Fox, 1304 Hanover St.

BUILDING INTELLIGENCE.

Sharon, Mass.—Frame dwell., 28' x 45'; owner, Edmund H. Talbot; contract not let; architect, Edwin J. Lewis, Jr., Boston.
St. Louis, Mo.—Two-sty brick dwell.; cost, \$3,500; owner, M. Hollinger; contractor, F. W. Giese.
Two-sty brick dwell.; cost, \$3,000; owner, H. Sickman; contractor, F. W. Giese.
Three adjacent two-sty brick dwell.; cost, \$9,300; owner, B. Gerhart; contractors, Auger & Riedesser.
Two-sty brick dwell.; cost, \$20,000; owner, Casper Koehler; contractors, Thomson & Mertz.
Two-sty brick dwell.; cost, \$6,000; owner, James F. How; contractor, Chas. Henke.
Two-sty brick dwell.; cost, \$3,600; owner, C. Roeder; contractor, H. Ellerman.
Two-sty brick dwell.; cost, \$8,000; owner, C. F. Lange; contractor, C. Wehking.
Two-sty brick dwell.; cost, \$5,000; owner, L. J. Silver; contractors, Heuninghaus & Vollmer.
Two-sty brick dwell.; cost, \$4,900; owner, J. Schaunahan; contractors, Schildman & Becker.
Three-sty brick dwell.; cost, \$3,300; owner, Carrie Meyer; contractor, O. N. Languiet.
Two-sty brick dwell.; cost, \$3,000; owner and contractor, T. W. Sadler.
Tewksbury, Mass.—Frame dwell., 46' x 46'; owner, Benj. Spaulding; contract not let; architect, Edwin J. Lewis, Jr., Boston.
Waverley, Mass.—Frame dwell., 27' x 42'; owner, Amelia A. Edwards; builder, D. S. McCabe; architect, Edwin J. Lewis, Jr., Boston.

OFFICE-BUILDINGS.

Boston, Mass.—Devonshire St., No. 172, and Federal St., No. 27, Ward 12, eight-sty brick offices, flat roofs, 87' x 144'; owners, John Hancock Insurance Co.; builder, C. W. Dodge.
Chauncey St., No. 82, cor. Rowe Pl., Ward 10, six-sty brick mercantile building, flat roof, 53.6' x 86'; owners, D. & H. C. Nevins.
New York, N. Y.—One Hundred and Twenty-fifth St., s s, 149' e Park Ave., four-sty brick office-building, tin roof; cost, \$80,000; owner, Oscar Hammerstein, 2323 Seventh Ave.; architects, McElfatrick & Sons, 1193 Broadway.
Philadelphia, Pa.—Germantown Ave., e s, n Angle St., one-sty office; contractors, Wagner & Stuard, 3330 Germantown Ave.
On Railroad, bet. Thirtieth and Thirty-first Sts., iron office; owners, Pa. R. R.
Harmony St., n w cor. Hudson St., eight-sty office-building; contractors, Geo. F. Payne & Co., 401 South Juniper St.

PUBLIC BUILDINGS.

Philadelphia, Pa.—Fifth St., n e cor. Hackley St., two-sty patrol-house; contractors, Geo. F. Payne & Co., 401 South Juniper St.
SCHOOL-HOUSES.
Philadelphia, Pa.—Twenty-eighth St., e s, s Columbia Ave., three-sty school-house; contractors, R. C. Ballinger & Co., Lucas Building.
Suffield, Conn.—One-sty brick school-house, stone trimmings; architects, Richmond & Seabury, Springfield.

STABLES.

Boston, Mass.—H St., rear, near Congress St., Ward 13, one-sty frame stable, 37' x 79.4'; owner, F. F. Furber; builders, Clark & Lee.
Mt. Vernon St., rear, pumping station, Ward 24, one-sty frame stable, pitch roof, 29' x 33.6'; owner, City of Boston; builders, D. H. Jacobs & Son.

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3d. Every sheet stamped with the name of N. & G. Taylor Co. It being the only tin made that bears the name of the Guarantor upon the sheets.

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5th. If the tin should not be found as represented it will be removed from the roof and replaced, the expense being borne by the Guarantor, N. & G. Taylor Co.

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BUILDING INTELLIGENCE.

Chicago, Ill.—George Williams, two-sty barn, 1927 Wrightwood Ave.; cost, \$3,000.
Dr. L. Williams, two-sty barn, 1903 Wrightwood Ave.; cost, \$3,000.
Mrs. M. Garrity, one-sty barn, 8909 Green Bay Ave.; cost, \$1,000.
Cincinnati, O.—John C. Roth, stable, Ochler St.; cost, \$8,000; architect, Adam Bast.
Philadelphia, Pa.—West College Ave., No. 1229, two-sty stable; owner, Wm. Peoples, 1246 West College Ave.
Twenty-first St., n w cor. Market St., two-sty stable; contractor, Thos. Bradley, 242 West Logan St.
South Broad St., No. 713, one-sty stable; owners, Giles McMichael & Co., on premises.
Delaware St., n s, e Twenty-first St., two-sty stable; contractor, D. R. Evans, 1614 Ontario St.
STORES.
Boston, Mass.—Savin Hill Ave., cor. Sydney St., Ward 24, two-sty frame stores, flat roof, 45' x 47'; owner, A. B. H. Chapin; builder, Stephen Wozom.
Washington St., No. 661, cor. Euclid St., Ward 24, one-sty frame store, flat roof, 50.6' x 54.8'; owner, N. W. Garland; builder, A. B. Sherman.
Chicago, Ill.—Jacob Genesee, three-sty store and flats, 441 Noble St.; cost, \$10,000.

Iron-Work.

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CHANNELS, ANGLES & TEES
L COOPER, HEWITT & CO.
NEW YORK **L**

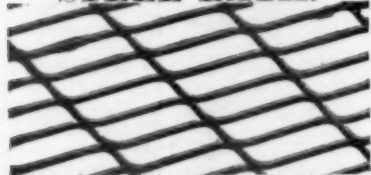
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lars apply to
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CLOTH CO.,**
TRENTON, N. J.

BUILDING INTELLIGENCE.

Cincinnati, O.—Peter Rubel, three-and-one-half-st'y
stores and tenement, Donahoe St.; cost, \$6,000;
architect, Louis Pickett.
Detroit, Mich.—W. Reich, four-st'y brick store;
125 Gratiot Ave.; cost, \$13,000.
Holyoke, Mass.—Dr. G. W. Davis, three stores,
High St.
Minneapolis, Minn.—H. A. Paus, brick store and
flat, 3006 Lyndale Ave.; cost, \$3,000.
New York, N. Y.—Broadway, n e cor. Fourth St.,
fireproof store-building; owner, Messrs. Schermer-
horn; architect, Geo. B. Post.
Houston St., No. 21, six-st'y brick and stone store
and loft building; owner, E. H. Mela; architects,
Cleverdon & Putzel.
One Hundred and Twenty-fifth St., s e s, 2627 w
Seventh Ave., one-st'y brick store, gravel roof;
cost, \$25,000; owner, Henry Morgenthau, Tribune
Building, Nassau St.; architects, Buchman & Deis-
ler, 8 West Twenty-ninth St.
Canal St., Nos. 530-536, 2 six-st'y brick stores, tin
roofs; cost, \$33,000; owner, Morris S. Herman, 29

JACKSON ARCHITECTURAL IRON WORKS,

ESTABLISHED 1840.

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Fronts for Buildings, Cornices, Lintels and Sills, Doors and Shutters, Girders and Beams,
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BUILDING INTELLIGENCE.

West One Hundred and Fifteenth St.; architect,
Frank Baylies, 52 Bible House.
Green St., Nos. 1924-200, six-st'y brick store, tin or
plastic slate roof; cost, \$200,000; owners, Guggen-
heimer & Sonnehorn, 360 West Seventy-seventh St.
and 333 West Fifty-eighth St.; architect, E. Napier
Anderson, 74 Fifth Ave.
Hudson St., n e cor. West Thirteenth St., six-st'y
brick store, gravel roof; cost, \$30,000; owner, John
Pettit, 34 Nassau St.; architect, James M. Farn-
worth, Temple Court.
Philadelphia, Pa.—Girard Ave., s e cor. Ontario
St., four-st'y store and hall; contractor, Michael
Magee, 1516 North Eighth St.
Thirteenth St., w s s Chestnut St., three-st'y
store and office; contractor, Thos. Bryan, 2106 East
York St.
Fifty-fifth St., e s, n Haverford St., three-st'y
store and dwell.; owner, Lewis Kirk, 5422 Haver-
ford Ave.
Melrose St., s s, w Fifty-fifth St., two-st'y store
and dwell.; owner, Lewis Kirk, 5422 Haverford
Ave.
Sternor St., s s, e Front St., two-st'y store and
dwell.; owner, Samuel H. Brown.
Tacony St., n e cor. Frankford Ave., two-st'y
store and dwell.; contractor, George R. Montieth,
3028 Lawrence St.
Twenty-second St., e s s Wharton St., two-st'y
store and dwell.; owner, Robert Paul, 2137 Federal
St.
Sixteenth St., e s, s Dauphin St., 2 three-st'y
stores and dwell.; owner, John Stafford, 1606 Sus-
quehanna Ave.
Eighteenth St., n e cor. Wolf St., two-st'y store
and dwell.; owner, Alfred Phillips, 212 Siebold St.
Haverford St., No. 5334, two-st'y store; contractor,
W. A. Patterson, Fifty-third St. and Wyalusing
Ave.
Melrose St., s s, w Fifty-fifth St., two-st'y store
and dwell.; contractor, Lewis Kirk, 5422 Haverford
St.
North Second St., Nos. 56-58, five-st'y store; con-
tractors, Brooklehurst & Ewing, 514 West Norris
St.
St. Louis, Mo.—Three-st'y brick store and dwell.;

BUILDING INTELLIGENCE.

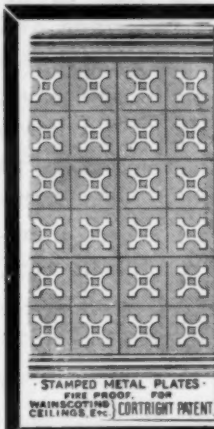
cost, \$3,100; owner, C. Kortzendorfer; contractor,
C. Wende.
Three-st'y brick store; cost, \$3,600; owners, Miller
Bro.; contractor, W. C. Popp.
Three-st'y brick store and dwell.; cost, \$6,000;
owner, A. Bernhart; contractor, F. A. Brehme.
THEATRES.
New York, N. Y.—One Hundred and Twenty-fourth
St., n s, 140 e Park Ave., three-st'y brick theatre-
building; cost, \$150,000; owner, Oscar Ham-
merstein, 2323 Seventh Ave.; architects, McKimpatrick
& Sons, 1193 Broadway.
TENEMENT-HOUSES.
Holyoke, Mass.—B. Donoghue, double tenement,
Elm St.; cost, \$5,500.
J. Jasemine, block of 11 tenements and four
stores; cost, \$10,000.
New York, N. Y.—Tenth Ave., e s, 250 s One
Hundred and Thirty-third St., 4 five-st'y tenements,
tin roofs; cost, \$48,000; owners, N. A. McCool &
Co., 142 West Twenty-sixth St.; architects, Kerbey
& Bartels, 59 Liberty St.
Clinton St., No. 168, five-st'y brick tenement, tin
roof; cost, \$14,000; owners, Fischel & Margowitz,
55 Norfolk St.; architect, F. A. Minuth, 822 Broad-
way.
St. Louis, Mo.—Two-st'y brick tenement; cost,
\$2,775; owner and contractor, C. M. Smiley.
WAREHOUSES.
Chicago, Ill.—W. A. Wells, five-st'y warehouse,
Bryan Pl. and Randolph St.; cost, \$100,000.
Minneapolis, Minn.—P. G. James, four-st'y brick
warehouse, 735-737 Washington Ave.; cost, \$23,500.
New York, N. Y.—Greene St., Nos. 101-103, six-st'y
brick, stone and terra-cotta warehouse; cost, \$80,-
000; owner, G. R. Read; architect, Oswald Winz.
Hudson St., s w cor. Jay St., ten-st'y brick, stone
and terra-cotta warehouse; cost, \$275,000; owners,
American Express Co.; architect, Edward H. Ken-
dall.
Philadelphia, Pa.—Alaska St., s s, e Seventh St.,
three-st'y warehouse; contractor, Jos. Price, 1919
Master St.

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BUILDING INTELLIGENCE.

MISCELLANEOUS.

Boston, Mass.—East Third St., rear, near M St., Ward 14, two-story mechanical building, pitch roof, 40' x 72'; owner, H. Loring; builder, J. McIntyre.
Fifth St., No. 67, Ward 7, five-story brick mechanical building, flat roof, 28' x 60'; owner, E. B. Badger; builder, Philip Moxom.

Brooklyn, N. Y.—Flushing Ave., n. s., 415' w Marcy Ave., four-story brick carpenter shop, tin roof; cost, \$5,500; Jacob Bosert, Lee Ave. and Middleton St.; architect, John Platte, 225 Lynch St.

Bell St., n. s., 300' w Commercial St., three-story and extension brick storehouse for sugar, felt and gravel roof; cost, \$15,000; owners and architects, The Haver-meyer Sugar Refining Co., Commercial St.

Broadway and Van Sinderim Ave., the northerly end of the four blocks bounded by the Eastern Parkway, Powell St., Van Sinderim and Vesta Aves., three-story frame grand stand, cement and gravel roof; cost, \$24,500; owners, The Ridgewood Land and Improvement Co., George W. Chauncey, Pres., 207 Montague St.; architect, W. M. Coots, 26 Court St.

Architect D. C. E. Lamb, the designer of the new Federal Building on Washington St., handed in his resignation, and on April 1 will start for San Antonio, Texas, to draw up plans for the Federal Building which it is proposed to build there. He has entered into full partnership with the leading firm of architects in San Antonio. It is said that the plans have been given out for the new Brooklyn Eagle Building to go up on the corner of Washington and Johnson Sts. Mr. Morse, of 215 Montague St., is the architect. The Thirteenth Regiment Army Commission, at its meeting recently, decided that the designs and plans for an armory presented by "Mars" (R. L. Davis) and "Veteran" (Rose & Marvin) be awarded the first (\$1,000) and second (\$500) prizes respectively. This action does not adopt the plans. It merely gives the Commission their ownership.

Detroit, Mich.—Leakle & Golden, two-story brick carpenter shop, 15-17 Gilman St.; cost, \$4,000.

Holyoke, Mass.—Edmond Langelier, brick and stone business block, Main St., near Appleton St.; cost, \$12,000.

Minneapolis, Minn.—Nelson Tenney & Co., dry-house, Twelfth Ave., n. e., and Van Buren St.; cost, \$4,000.

Newton Centre, Mass.—Frame greenhouses and graperies; owner, J. R. Leeson; builder, J. Steeves; architects, Rand & Taylor, Boston.

New York, N. Y.—Laight St., Nos. 38-44, seven-story fireproof building; owner, William L. Wallace.
Sixth Ave., s. e. cor. Sixteenth St., four-story bank-building; cost, abt. \$200,000; owner, Greenwich Savings Bank.

One Hundred and Twenty-eighth St., n. s., 311' e Tenth Ave., one-story iron storage building, man-sard, gravel and tin roof; cost, \$7,000; owner, D. J. Yungling, Jr., One Hundred and Twenty-eighth St. and Tenth Ave.; architects, Webber & Drosser, 81-82 Bible House.

Philadelphia, Pa.—Kensington Ave., No. 2424, one-story kitchen; contractor, R. B. Clark, 778 North Twenty-seventh St.

South Ninth St., No. 1730, one-story kitchen; contractor, Michael Whelan, 1225 Snyder Ave.

Oxford St., s. s. w. Germantown Ave., three-story brewery; contractor, Chas. Auchter, 1523 North Twenty-seventh St.

Fourth St., w. s. n York St., two-story police-station; contractors, R. C. Ballinger & Co., Lucas Building.
Twenty-sixth St., n. w. cor. Girard Ave., three-story market; contractor, Philip Halbach, Twenty-sixth and Thompson Sts.

Lancaster Ave., No. 4212, one-story storehouse; owner, Geo. S. Rowbotham, 4212 Lancaster Ave.
Paul St., w. s. s. Sellers St., one-story shop; owner, Jos. Ball, 4447 Frankford Ave.

Jefferson St., s. w. cor. Manayunk Ave., two-story shop; owner, E. L. Schellenberg, Fleason St.

Sixteenth St., e. s. n Dauphin St., two-story carpenter shop; contractors, Magill & Hoffman, 1724 North Eighth St.

Thirtieth St., w. s. n Market St., one-story iron tool-house; owners, O. P. R. R.

Sixth St., e. s. n Lehigh Ave., two-story smith shop; contractor, John Mitchell, 807 West Lehigh Ave.

Washington Ave., n. s. w. Twenty-fourth St., one-story engine-house; contractor, D. J. Lyons, 1432 Tasker St.

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THE COWLES**

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Offer their ALUMINIUM, when alloyed with Copper, in ingots at \$2.00 per lb. subject to analysis.

Aluminium Bronze or Brass are the most perfect and beautiful yellow metals that can be put into a building.

Silver Bronze a most non-corrodable cheap white metal, offered by us in ingots or castings.

Heavy Manganese Bronze Castings a specialty.

BUILDING INTELLIGENCE.

Twenty-seventh St., w. s. n Columbia Ave., one-story boiler-house; contractor, Chas. Auchter, 1523 North Twenty-seventh St.

St. Louis, Mo.—Four-story brick brewery; cost, \$100,000; owners, American Brewery Co.; sub-let.

PROPOSALS.

ELECTRIC-LIGHTING.

[At Asheville, N. C.]
ASHEVILLE, N. C., February 28, 1890.
The city of Asheville, N. C., invites proposals for lighting by electricity the city for a period of two years from October 1, 1890.

Proposals to contemplate an opinion giving the city the right to purchase the plant at expiration of the period mentioned.

Time for receiving bids is limited to **May 1, 1890.**
The right is reserved to reject any or all bids, and to waive any defects.

CHARLES D. BLANTON, Mayor.
F. N. MILLER, City Clerk.
745

STONE, SAND AND CEMENT.

[At Buffalo, N. Y.]
U. S. ENGINEER OFFICE,
BUFFALO, N. Y., March 11, 1890.

Sealed proposals, in triplicate, will be received at this office until **11 A. M., Eastern standard time, April 1, 1890,** for furnishing the above-mentioned materials.

Preference will be given to articles of domestic manufacture, conditions of quality and price (import duties included) being equal.

Specifications, blank forms for proposals and all necessary information can be had from the undersigned,
F. A. MAHAN,
Captain of Engineers.
744

ARTIFICIAL STONE WALKS.

[At Bristol, Tenn.]
Sealed proposals will be received by the City Council of Bristol, Tenn., for the construction of about 3,200 square feet of artificial stone or concrete sidewalk, curbing and gutter.

Bids will be received until **April 1, 1890.**
The Council reserves all right to reject any or all bids.

For complete specification and any other information, address **A. P. MOORE, Bristol, Tenn.,** Member of Street Committee.
744

March 12, 1890. Sealed proposals will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock p. m., on the 8th day of April, 1890, for all the labor and materials required to complete the approaches to the United States Post-Office, etc., building at St. Joseph, Mo., in accordance with specification and drawing, copies of which may be had on application at this office or the office of the Superintendent. Each bid must be accompanied by a certified check for \$200. The Department will reject all bids received after the time fixed for opening the same; also, bids which do not comply strictly with all the requirements of this invitation. JAS. H. WINDRIM, Supervising Architect.
744

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Architectural Iron - Works.
ESTABLISHED 1852.

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Boston Agent, **FRED. A. HOUDLETTE & Co.,** 272 Franklin Street

New York Agents, **MILLIKEN & SMITH,** 95 Liberty Street

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Architectural Iron Works.

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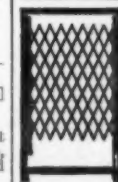
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WINDOW GUARDS,

Made in Steel, Iron, Brass & Bronze.

WILLIAM R. PITT.

83 Reade Street, - - New York.

PROPOSALS.

COURT-HOUSE.

[At Richmond, Ind.]
The Board of Commissioners of Wayne County, Ind., will receive bids and proposals for the erection of a new court-house at the City of Richmond.

Building to be 212 x 124 feet, to be built of stone and iron, and to be a fireproof building.

Bids will be received on entire work, or in classes, to **12 o'clock M. on May 2, 1890,** at the Auditor's office of said county.

Plans and specifications prepared by James W. McLaughlin, Architect, Cincinnati, O., adopted by the Board, are on file in said Auditor's office and in the office of the architect, Cincinnati, O.

For particulars, address **FINLEY NEWLIN,** Auditor, Richmond, Wayne County, Ind.
745

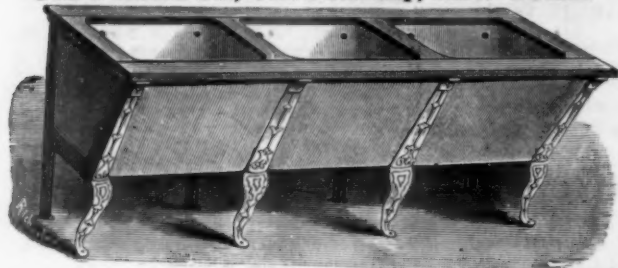
WATER-WORKS SUPPLIES.

[At San Bernardino, Cal.]
March 5, 1890.

Up to noon of the 8th day of April, A. D. 1890, sealed proposals will be received by the Board of Trustees of the City of San Bernardino, Cal., for furnishing the following supplies, and do the following work for said city:

627,035 tons of cast-iron pipe.
114,155 feet of Kalamain converse lock-joint pipe.
98,735 feet of lap-welded wrought-iron screw-pipe.
15,400 feet of riveted steel pipe.
Also, for trenching, laying and covering the 15,400

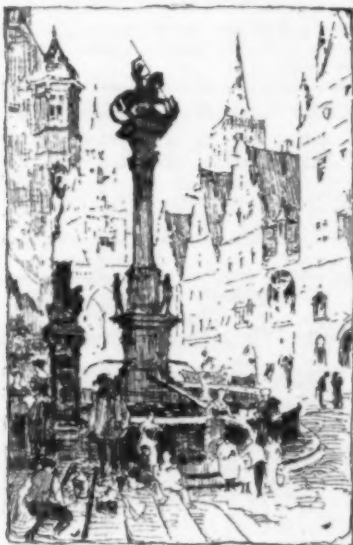
Sanitary Appliances

STEWART CERAMIC COMPANY,
312 PEARL ST., Cor. Peck Slip, NEW YORK.Sole Manufacturers under
Morahan's Patents of**THE
CELEBRATED
SOLID WHITE
CROCKERY
STATIONARY
WASH-TUBS.**The only Perfect San-
itary Tubs now in Ex-
istence.**VERY STRONG.**No seams to open. Ab-
solute cleanliness se-
cured for all time.
WELL GLAZED.

SHOWING THREE TUBS SET UP.

The only Solid White Crockery Wash-tub ever made in the world. Do not buy imitations until you see
the genuine "Morahan's Patent," stamped on the front of every tub. Wash-board and Soap-scup moulded
in every set. Will outlast any house.Solid White Crockery Sinks, Comprising Butler's Pantry, Kitchen, Slop, etc.,
Made of same material as the tubs. Very strong, well glazed, no labor required to keep clean.
LIBERAL TERMS TO THE TRADE. SEND FOR PRICE-LIST AND CATALOGUE.

"THE CAST SINK MUST GO."
THE COLUMBUS WROUGHT STEEL KITCHEN AND PANTRY
Displaces all others wherever introduced — **SINKS** — Painted, Galvanized, Enameled
Send for Descriptive Circular and Prices to
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LAUNDRY MACHINERY. HOTEL and INSTITUTION
Carefully Handled.
[ESTABLISHED 1861.]
Send for Catalogue. **OAKLEY & KEATING, 40 Courtlandt St., NEW YORK.**

Key-sketched.

"Fountain of St. George, Lubeck."

AT THE**"Fountain of St. George."**

PROOFS before letter,
mounted for framing, of
the photo-gravure [18 x 24
in., on Japan paper] of
AXEL H. HAIG's famous
etching can now be fur-
nished.

Price, \$3.00 each.

TICKNOR & CO.,

211 Tremont St., BOSTON, MASS.

PROPOSALS.feet of steel pipe; 70 double-nozzle fire-hydrants; 90
gates; 163 special castings.All the above supplies and work will be furnished
in accordance with specifications, to be had on appli-
cation to F. C. Finkle, Engineer and Superintendent
of Water-Works, Room 16, City-Hall, San Bernardino,
Cal.Bids for each kind of pipe to be separate, and to be
delivered to the Clerk of said Board.Bids must be made out on the blanks accompany-
ing the specifications.Each bid must be accompanied by a certified check
on a responsible bank amounting to at least ten per
cent of the amount of said bid.The Board reserves the right to reject any or all
bids.

By order of the Board.

B. B. HARRIS,
Clerk of the Board.

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EXTERIOR MARBLE WORK.[At Boston, Mass.]
OFFICE OF BRIGHAM & SPOFFORD, ARCHITECTS, }
27 Mt. Vernon Street, BOSTON, MASS. }Sealed proposals will be received at this office until
12 M., on the 31st day of March, 1890, for furnish-
ing and delivering, ready for setting, marble ashlar
work for the first story and balustrade of the Massachu-
setts State-house extension, Boston, Mass., in accor-
dance with plans and specifications, copies of which
and any additional information relating thereto, may
be had on application at the office of Brigham &
Spofford, architects, 27 Mt. Vernon Street, Boston,
Mass.The Commissioners reserve the right to reject any
and all bids, and bids received after the time named
will not be considered.JOHN D. LONG, } State-house Extension
BENJ. D. WHITCOMB, } Commissioners.
WM. ENDICOTT, JR. }

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PROPOSALS.**IRON PIPES AND FIXTURES.**

[At Fort Worth, Tex.]

Sealed proposals will be received up to the hour,
3 P. M., Monday, March 31, 1890, at the City
Water-Works Office, Fort Worth, Texas, by the under-
signed Committee and Superintendent, for furnishing
all material and appurtenances necessary for con-
structing 3½ miles of water-mains complete in the
ground, according to the plans and specifications on
file at the office of the Superintendent.2. For furnishing the following cast-iron pipe, etc.
190 tons of 6-inch pipe, 33 pounds per foot.
234 tons of 8-inch pipe, 50 pounds per foot.
241 tons of 10-inch pipe, 65 pounds per foot.
103 tons of 12-inch pipe, 82½ pounds per foot.
14 tons of specials.
45 fire-hydrants, with steamer connections (6-inch
connection to main).Twelve 6-inch gate-valves and valve-boxes.
Six 8-inch gate-valves and valve-boxes.
Four 10-inch gate-valves and valve-boxes.
One 12-inch gate-valve and valve-box.29,311 pounds of lead and 1,777 pounds of hemp
packing, F. O. B. cars at Fort Worth.All proposals to be made on blank forms furnished
on application by the Superintendent.Each bid to be accompanied by a certified check for
five hundred dollars as a guaranty that he or they
will enter into a good and sufficient bond, to be
approved by the Mayor of said city and City Council.

The right is reserved to reject any and all bids.

A. W. SCOBLE, }
Superintendent. }
GEORGE NIES, }
A. B. FRASER, }
W. J. BAILEY, }
Water-Works Committee.

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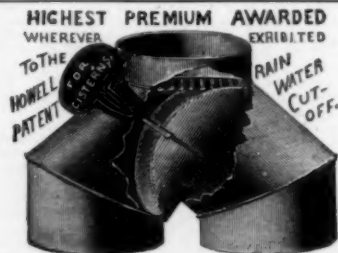
March 7, 1890. Sealed proposals will be received at
the office of the Supervising Architect, Treasury De-
partment, Washington, D. C., until 2 o'clock P. M., on

COL. GEORGE E. WAR-
ING, JR., C. E. etc., in his
recent work on Sewerage and
Land Drainage, in speaking of
traps liable to siphonage, says:
"the best remedy would be to
supply the defective traps at
their summits with McClellan's
Mercury Seal-Trap Vent, a per-
fectly safe device, of little cost,
simple and easy of application,
and sure to supply air when
needed."

TUCKER & TITUS,Plumbers, Sanitary Plumbing,
Drainage and Ventilation.

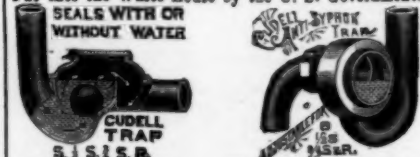
14 BRATTLE Sq., Quincy House Block, BOSTON.

JAMES TUCKER. Telephone No. 1223. FRANK A. TITUS.

PLUMBING.**HENRY HUSSEY & CO.,** 79 Kingston St., Boston.Public and Private buildings examined and put in
thorough condition. Plans, specifications and esti-
mates furnished for city and country work on appli-
cation.**G. W. HOWELL,**
MANUFACTURER,

632 Madison Ave., Covington, Ky.

Pat into the White House by the U. S. Government.



For venting, use vent-top. For venting, use vented outlet.

F. E. CUELL'S**PATENT SEWER-GAS AND BACK-WATER TRAP,**

For Wash-Bowls, Sinks, Bath and Wash-Tubs.

204 Superior St., Cleveland, O.

PROPOSALS.the 28th day of March, 1890, for all the labor and
materials required to build complete the new stone
porch at Church Street entrance to the United States
Court-house, Post-office, etc., building at Rochester,
N. Y., in accordance with the drawing and specifica-
tion, copies of which may be had on application at
this office or the office of the Superintendent. Each
bid must be accompanied by a certified check for \$100.
The Department will reject all bids received after the
time fixed for opening the same; also bids which do
not comply strictly with all the requirements of this
invitation. JAMES H. WINDRIM, Supervising
Architect. 743March 8, 1890. Sealed proposals will be received at
the office of the Supervising Architect, Treasury De-
partment, Washington, D. C., until 2 o'clock P. M., on
the 4th day of April, 1890, for a clock in the tower of
the United States Court-house, Post-office, etc., at
Carson City, Nev., in accordance with the drawing
and specification, copies of which may be had on
application at this office or the office of the Superin-
tendent. Each bid must be accompanied by a certified
check for \$100. The Department will reject all bids
received after the time fixed for opening the same;
also bids which do not comply strictly with all the
requirements of this invitation. JAMES H. WIN-
DRIM, Supervising Architect. 743

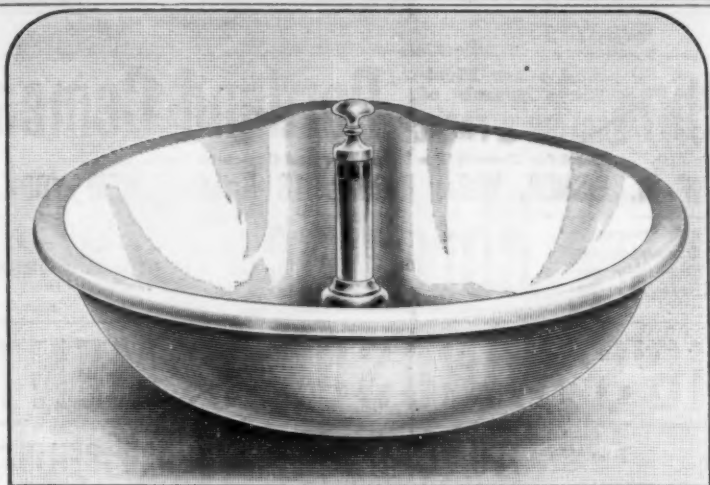


Plate 843—G. The "SIMPLEX" Recess Basin and Waste. (Patented.)

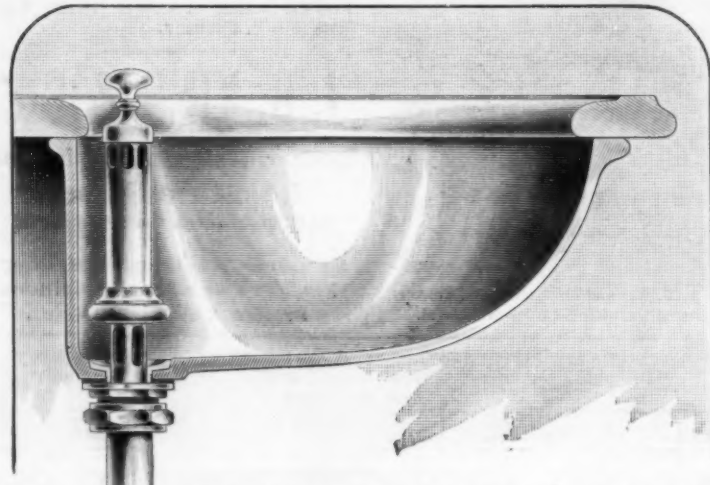


Plate 844 — G. Cross Section of "Simplex" Recess Basin, showing Waste raised as when water is being let out of Basin.
Copyright, 1888, by The J. L. Mott Iron Works.

THE
J. L. Mott Iron Works.

86, 88 and 90 Beekman Street.

NEW YORK.

—AND—

311 and 313 Wabash Avenue.

CHICAGO, ILL.

Two Sizes : 19 x 15 inches and 17 x 14 inches,
outside the flange.

MARBLEIZED OR IVORY-TINTED.

The "Simplex," as the name indicates, is not only simple in operation and without any complex parts, but its lines are beautiful, and it makes a handsome Lavatory when set up in Marble Slab. The Recess is very slight, the Marble being cut to conform to same, consequently all parts of Basin can be readily cleaned.

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C. Powell Karr, C. E. New York. (cov)
Anaglypta.
Nevius & Haviland, New York, N. Y.
Annunciators.
W. W. Ostrander & Co., New York.
Architectural Brass Work.
Union Brass Architect'g W'ks, Chicago, Ill.
Articles & Materials.
Front & Adams, Boston. (cov)
Artificial Stone.
Wehn Pavement Co., New York, N. Y. (cov)
Asbestos.
Asbeston Felt, H. W. Hootler & Coverings.
H. W. Johns M'fg Co., New York.
Asbestos Felts.
H. F. Watson, Erie, Pa.
Paint.
H. W. Johns M'fg Co., New York.
Asphalt.
Matt Taylor Paving Co., New York.
Renaissance Asphalt Co., New York.
New York Elastic Works.
E. H. Woodton, New York.
Asphalt Roofing.
W. E. Brown Chemical & M'fg Co., New York.
Bath Tub.
Miller & Costes, New York.
Bells.
H. B. McShane, Baltimore, Md.
C. T. Robinson & Co., Boston, Mass.
Boilers.
Babcock & Wilcox Co., New York.
Caldwell Lumberwood Co., New York. (cov)
Harrison Safety Boiler Works, Philadelphia,
Pa. (cov)
Randolph & Clowes, Waterbury, Conn.
Books and Journals.
Bosch & Wilson, New York.
Geo. H. Chapin, Boston, Mass. (mon)
Wm. T. Comstock, New York.
Brass Foundry.
Ames Manufg. Co., Chicopee, Mass.
Brass Goods.
J. B. Shannon & Sons, Philadelphia. (mon)
J. B. Shannon (cont'd).
Burns, Russell & Co., Baltimore, Md.
S. Hamilton, Jr., Croton, London, N. Y.
Hydraulic Press Bricks Co., Longmeade,
Massachusetts.
Wis. (cov)
Waldo Bros., Boston.
Brick Machine.
H. W. Becker Co., Bucyrus, O. (cov)
Building Felt (Fire and Waterproof).
H. W. Johns M'fg Co., New York.
Building Papers.
H. F. Watson, Erie, Pa.
Standard Paint Co., New York, N. Y.
Cameras.
Eastman Co., Rochester, N. Y. (mon)
Gilliland (Victor), H. S. Nashrup, New York.
Cement (Hydraulic).
F. O. Norton, New York.
Cement.
American Cement Works, New York, N. Y. (cov)
Brooks, Shrobridge & Co., New York.
E. W. Fisher, New York.
Howard Fleming, New York.
Bosch & Wilson, New York.
J. B. King & Co., New York.
Sinclair & Babson, New York. (mon)
Chair-Seating.
American Manufacturing Co., Boston.
Chimney Tops.
H. M. Hansen, Chicago, Ill. (mon)
Colorist.
E. Eldon Deane, Boston, Mass.
Conduits.
Ames Odyks & Co., Philadelphia.
Conductors (Water). (Continued.)
Boston Spiral Tube Works Boston.
Sunderman Standing-Seam Conductor Co.,
Albany, Pa.
Conduits (Electric).
Joshua Smith, New York.
Contracting.
Frynt Building & Construction Co., Palmer,
Mass.
Cordage.
Samson Cordage Works, Boston. (cov)
Cornices (Galvanized-Iron).
Mocker & Co., St. Louis, Mo.
Urethane Stone.
S. Cabot, Boston.
Decorators.
C. B. Hart, Boston.
L. Haberstroh & Son, Boston.
Donald McDonald, Boston.
W. J. McPherson, Boston.
W. J. Tiffany & Co., New York, N. Y.
Door Check.
Norton Door-Check and Spring Co., Boston.
Door Knobs.
J. Bardsley, New York.
Drumheads's Exchange.
R. B. Barry, New York. (mon)
Drumheads's Supplies.
Keuffel & Esser Co., New York, N. Y. (cov)
T. H. McCollin, Philadelphia, Pa. (mon)
F. Weber & Co., Philadelphia.
Electric House-Fittings.
Hazzer & Stanley, New York, N. Y.
Electric Wiring.
R. C. Ward, New York.
Elevator Builders.
Marshall Brothers, Pittsburgh, Pa. (mon)
Elevators, etc.
Chicago, Ill.
Ellisbros & Air-Brake Co., New York.
L. H. Graves, New York.
C. M. Hull, New York.
Volz & Sons, New York.
Morse, Williams & Co., Philadelphia.
Otis Brothers & Co., New York.
Saw Foundry & Saw Mill Shop, New York.
Springfield Foundry Co., Springfield, Mass.
Stokes & Pariah Philadelphia.
Whittier Machine Co., Boston.
Elevator Engine.
H. W. Ward Foundry Co., Springfield, Mass.
Engines.
Southwark Foundry and machine Co.,
Philadelphia, Pa. (mon)
Westinghouse, Pittsburgh, Pa.
Engines (Cnairs Pumping).
Delamater Iron Works, New York.
Engines (Gas).
Stern & Co., Phila.
Fireproof Building.
Henry Maurer, New York.
Pioneer Fireproof Construction Co., Chicago, Ill.
Hartley & Co., New York.
J. J. Schilling, New York. (cov)
Wight Fireproofing Co., New York.
Fire-Escapes.
H. W. Ward, Pittsburgh, Pa. (mon)
Fireproof Construction.
Guastavino Fireproof Construction Co., N. Y.
Fireproof Lathing.
H. W. Ward, New York.
New Jersey Wire Cloth Co., Trenton, N. J.
Floors (Inlaid).
Wm. Hannam & Co., New York.
National Wood M'fg Co., N. Y.
Foot-Loek.
Empire Portable Forge Co., Lansingburgh.
N. Y. (cov)
Foundries.
A. Cox Stone Co., Philadelphia, Pa. (cov)

Cornices
Conant Bros. Furniture Co., Toledo, O.

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Archer & Fancost Mfg. Co., Boston, Mass.
Vander Veer & Co., New York

Gas-Machines.
Turrell Gas-Machine Co., New York

Gas-Stoves.
Gordon & Co., Philadelphia, Pa.

Gates.
Gates, Wm. R. Pitt, New York

Glass Kioofing.
Josephus Pfaff, New York

Glass Ornament.
Maitland Armstrong & Co., New York

Belcher Mosaic Glass Co., New York

Castle & Son, Fort Covington, N. Y. (Mon)

Chapman & Co., New York

R. Gieseler, New York, N. Y.

Alfred Godwin & Co., Philadelphia ..

R. & Groves & Steu, Philadelphia

J. S. Hays, New York

Matthews Decorative Glass Co., New York ..

Mayer & Co., New York, N. Y.

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Miles, Chicago

Donald MacDonald, Boston

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Edwin A. Jackson & Bro., New York ..

Wm. H. Jackson & Co., New York

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Hardware.
Burditt & Williams, Boston

A. G. Newman, New York (Mon)

Henry T. Bartlett, New York

Harness Bracket.
Jas. J. Read, Boston

Heating. (Mon)
Smith & Anthony Stove Co., Boston

Frederic Tudor, Boston, Mass.

Heating-Apparatus (Steam).
H. C. & J. C. Thompson, Bridgeport, Conn.

Detroit Heating and Lighting Co., Detroit, Mich.

Huyett & Smith Mfg. Co., Detroit, Mich.

Page Steam-heating Co., Norwich, Conn.

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H. W. & Co., New York

R. F. Sturtevant, Boston (Mon)

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Helio-type Printing Co., Boston

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Continental Insurance Co., N. Y. (cont)

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Iron-Work (Architectural).
Belmont Iron Co., Philadelphia, Pa.

Boston Bridge Works

Devlin & Co., New York

Chrome Steel Works, Brooklyn, N. Y.

Columbia Iron & Steel Co., Pittsburgh, Pa.

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J. B. & J. M. Cornell, New York
J. G. & T. Dimond, New York
Architectural Iron Works, N. Y.
Manly Mfg. Co., Dalton, Ga.
Meeker & Bro., St. Louis, Mo.
Patent Rolling Mill Co., Paterson, N. J.
Pennsylvania Foundry & Machine Works, Phila., Pa.
Phoenix Iron Co., Philadelphia, Pa.
F. J. Meyers Mfg. Co., Covington, Ky. (saw)
Walton Architectural Iron Co., Cin., Ohio. (mon.)

Iron-Work and Construction.
E. S. Shaw, Boston, Mass.

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Oakley & Keating, New York
Troy Laundry Machinery Co., Troy
Machinery (saw)

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Cotter Manufacturing Co., Rochester, N. Y.
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Tainton, New York, N. Y.
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Herter Bros., New York, N. Y.
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A. Canbe White Lead and Linsseed Oil Co., New York (mon.)
Oil Finish.
Berry Bros., Detroit, Mich. (saw)
Clinton Metallic Paint Co., New York
F. W. Devore & Co., New York (saw)
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 The Highest Grade Imported exclusively by
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 These papers are the work of a practising architect,
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Cements.

Stettin And other First-
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ENGLISH & FRENCH
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COLORIFIC.

It will not fade. Send for
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 SOLE U. S. AGENT,
 7 Centies Slip, New York

KING'S WINDSOR CEMENT.



Station of the N. Y. City and Northern B. R., Yonkers,
 N. Y., Plastered with King's Windsor Cement.

FOR PLASTERING WALLS AND CEILINGS.
 300 per cent. more TENSILE STRENGTH,
 200 per cent. HARDER and requires ONE-
 THIRD LESS LABOR than Lime
 and Hair Plaster.

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 Patentees and Sole Manufacturers,
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 Also Sole Manufacturers King's
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BUILDING SUPERINTENDENCE.

THE BEST AND LATEST TREATISE IN
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 Thorn Shingle & Ornament Co., Philadel-
 phia, Pa. (cont)

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Sash-Cord Fastener. Empire Portable
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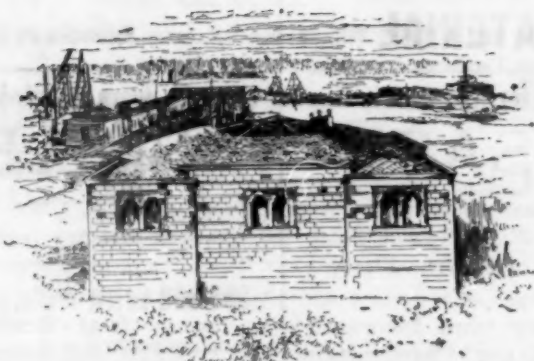
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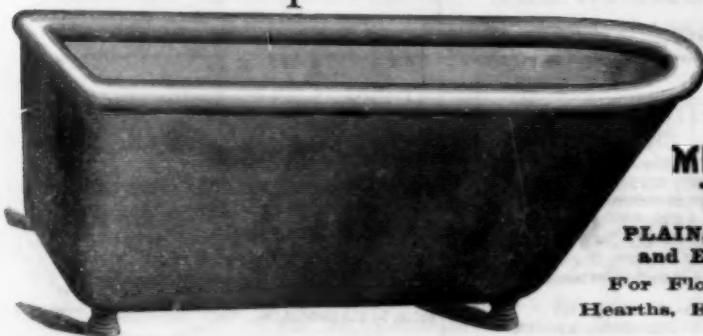
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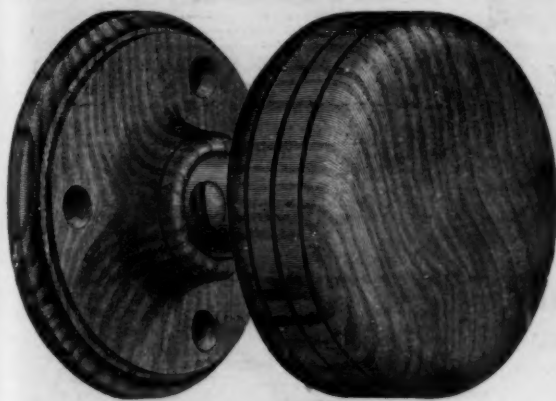
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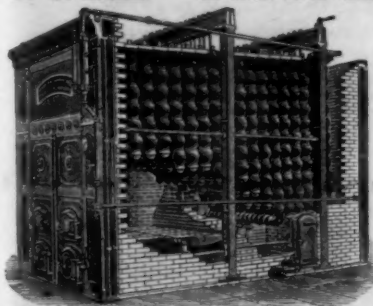
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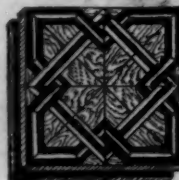
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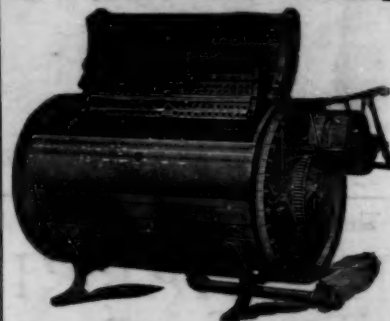
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Spruce.....

Hemlock.....

Yellow pine.....

Cypress.....

Clapboards:

Pine.....

Spruce.....

Shingles:

Pine, shaved..... P. M.

Pine, sawed.....

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Redwood..... P. M.

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Cedar, sawed.....

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Miscellaneous:

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Chestnut.....

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" white.....

" quartered.....

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Rosewood.....

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Whitewood.....

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25 00 @ 45 00

14 00 @ 18 00

12 00 @ 16 00

18 00 @ 21 00

2 50 @ 2 7

2 25 @ 2 35

5 00 @ 6 00

4 00 @ 5 00

1 50 @ 2 00

1 40 @ 1 60

2 00 @ 4 00

18 00 @ 20 00

4 00 @ 5 00

8 00 @ 10 00

25 00 @ 50 00

45 00 @ 60 00

80 00 @ 120 00

40 00 @ 60 00

180 00 @ 200 00

230 00 @ 250 00

45 00 @ 50 00

50 00 @ 50 00

65 00 @ 80 00

50 00 @ 50 00

65 00 @ 75 00

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65 00 @ 70 00

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15 50 @ 18 00

12 50 @ 15 00

24 00 @ 35 00

2 25 @ 2 35

2 25 @ 2 50

4 50 @ 5 00

1 50 @ 2 00

3 75 @ 4 00

2 00 @ 4 00

5 00 @ 6 00

10 00 @ 18 00

25 00 @ 50 00

25 00 @ 50 00

45 00 @ 60 00

80 00 @ 120 00

60 00 @ 70 00

48 00 @ 50 00

120 00 @ 150 00

150 00 @ 200 00

200 00 @ 250 00

45 00 @ 50 00

50 00 @ 50 00

65 00 @ 80 00

50 00 @ 50 00

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65 00 @ 70 00

80 00 @ 70 00

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47 00 @ 48 00

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39 00 @ 41 00

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24 00 @ 24 00

10 00 @ 21 00

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14 00 @ 15 30

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10 00 @ 13 00

15 50 @ 18 00

12 50 @ 15 00

24 00 @ 35 00

2 10 @ 2 25

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2 10 @ 2 70

Not sold.

6 00 @ 7 50

Not sold.

2 00 @ 2 35

3 50 @ 4 00

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Black, brown, buff p lb.	12		
Colorite p lb.	24		
Red p lb.	3		
White p bbl.	1 75		
Foundation:			
Dimension			
Block			
Rubble			
Bluestone (p sq. ft.)			
Sidewalk	30 @ 5 00	40 @ 1 75	75 @ 1 00
Planed	50 @ 6 00	75	80 @ 1 00
Sandstone.			
Longmeadow	80	80 @ 90	
Kibbe	90	90 @ 1 10	
Brown (Connecticut)	1 00 @ 95	1 25 @ 1 45	1 50 p sub.ft.
Amherst	90	90 @ 1 00	45 @ 50
Berea Ohio	75 @ 1 00	80 @ 90	45 @ 55
Berlin	75 @ 1 00	80 @ 90	55 @ 65
Belleville	80 @ 1 25	1 25 @ 1 35	55 @ 1 25
New Brunswick (Dorchester)	1 00	75 @ 90	
Carmel	1 05	1 00 @ 2 00	
Carlisle, English	1 05	1 05	
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Marble (p cu. ft.)			
Lee, Mass.	1 25 @ 1 75	1 75 @ 2 50	Not sold.
Rutland, white and blue		3 00	3 50 @ 6 00
Sutherland Falls		2 00	3 50 @ 6 00
Glens Falls, black			Not sold.
Italian, blue-veined			Not sold.
Sienna			4 40
Tennessee, red			4 40
Knoxville			4 40
Pennsylvania, blue			Not sold.
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Slates: Roofing (p square)			
Green	5 00 @ 6 00	4 75 @ 5 25	5 50 @ 6 10
unfading	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10
purple	5 00 @ 6 00	5 50 @ 6 50	6 50 @ 7 10
red	10 00	10 00 @ 11 00	12 00 @ 14 00
black, Lehigh	4 25 @ 4 75		6 25 @ 8 85
Chapmans			7 30 @ 8 00
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Tiles, Am.			Not sold.
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PAINTS. (In oil, p lb.)			
White lead, Am.	7 @ 7 1/2	7 1/2	7
Zinc	5 @ 5 1/2	5 1/2	5 1/2
Red lead, Am.	6 @ 6 1/2	6 1/2	6 1/2
Venetian	6 @ 6 1/2	6 1/2	6 1/2
Vermilion	6 @ 6 1/2	6 1/2	6 1/2
Red Indian, Eng.	12 @ 12	12	12
Yellow Ochre	6 @ 6 1/2	6 1/2	6 1/2
Chrome	12 @ 12	12	12
Green (chrome)	8 @ 8 1/2	8 1/2	8 1/2
Green, Paris	25 @ 25	25	25
Black, lamp	15 @ 15	15	15
Blue, ultramarine	12 @ 12	12	12
Oil, linseed, (raw)	59 @ 59	59	59
boiled	62 @ 62	62	62
Turpentine	44 @ 44	44	44
Varnish, coach			
Shellac			
Putty			
Whiting	7 @ 7 1/2	7 1/2	7 1/2
Paris white, (Eng.)	1 30 @ 2 00	2 00	2 00
Litharge, Am.	54 @ 54	54	54
Sienna (burnt)	14 @ 14	14	14
Umber	14 @ 14	14	14
HARDWARE.			
Nails: (Per Cask.) Spikes, (wrought.)	2 @ 2 85	2 30	2 75 @ 3 00
10d. common	2 @ 2 85	2 30	2 75 @ 3 00
Shingle	2 @ 3 35	2 50	2 75 @ 3 00
Lath	2 @ 4 85	3 70	2 75 @ 3 00
Finishing nails according to size.			2 75 @ 3 00
(For casing nails add 75c. per keg.)			2 75 @ 3 00
Butts: 4"x4" (p doz. pairs.)			2 75 @ 3 00
Plain	1 @ 1 00	1 20	90
Japaned	1 @ 1 50	1 75	Not sold.
Acorn, Japaned	1 @ 1 50	1 90	2 00 @ 3 75
Ball Tip, Boston Finish	65	1 05	Not sold.
Bronze metal	1 90	1 05	2 00 @ 3 25
Brass (10" snpboards)	10	10	12
Ebony			
Apple wood			
Knobs: (p Set.)			
Mineral, best	8	8	8 @ 10
Lava	50	75	65 @ 80
Hemacite	Not sold	33	31 @ 40
Porcelain	30	10	25 @ 30
Glass, solid	Not sold	80	Not sold.
Glass, silvered	Not sold	1 00	1 50
Bronze metal	75 @ 2 00	50 @ 3 00	50 @ 3 00
Brass	1 00 @ 2 80	50 @ 3 00	1 00 @ 3 00
Solder:			
Sheet Lead		6 1/2	7
Lead Pipe		6	6 1/2
Iron:			
I-Beams, up to and including 30 ft.	3 3-10 @ 3 1/2	3 1-10	2 8-10
I-Beams, over 30 ft. 1, 1 1/2, 2 c. advances.	3 3-10 @ 3 1/2	3 1-10	2 8-10
Channel Beams	3 3-10 @ 3 1/2	3 1-10	2 8-10

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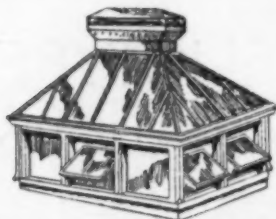


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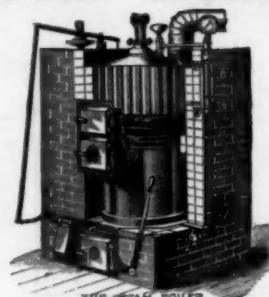
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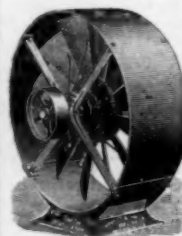
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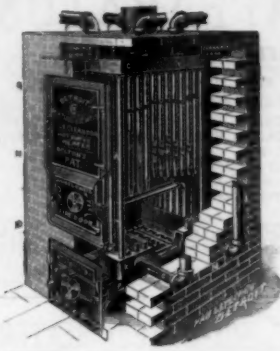
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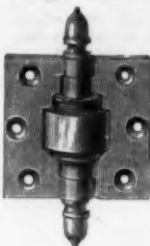
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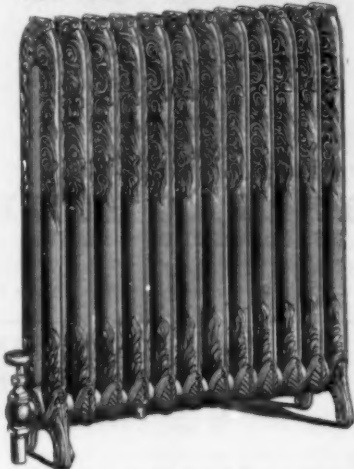
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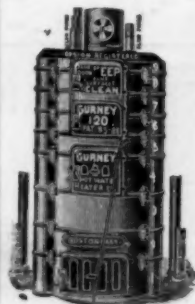
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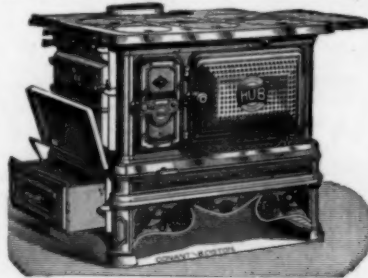
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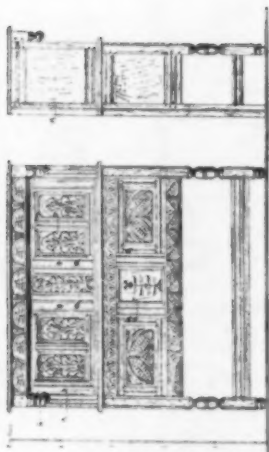
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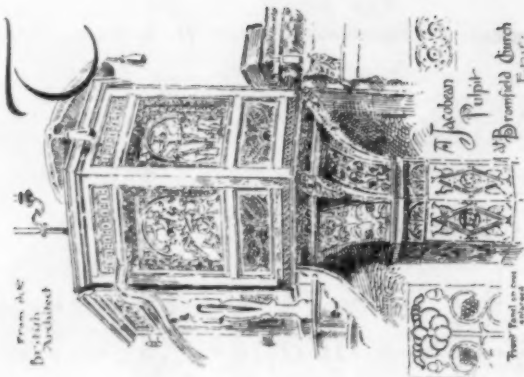
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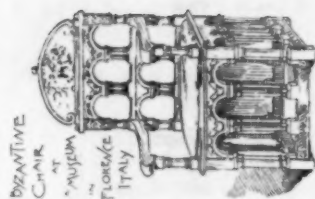
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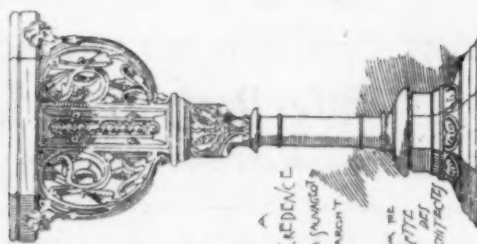


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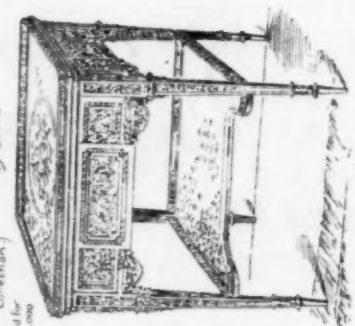


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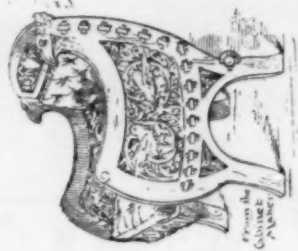
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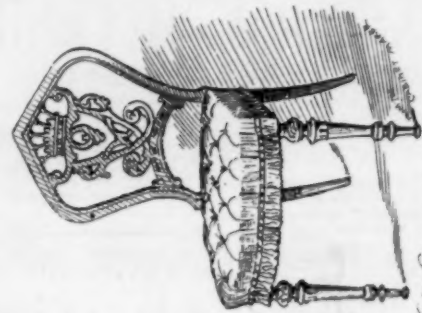
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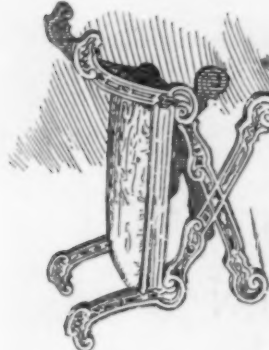
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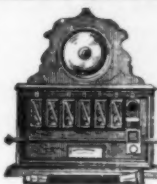
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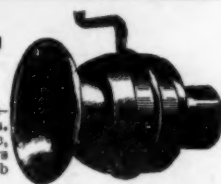
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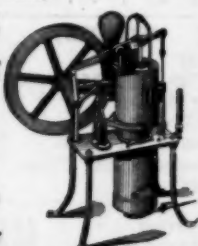


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The builder's privilege is to get through with his job with the least expense to himself. No use to spin fine cobwebs to him. The only protection the owner has against mean varnish and varnishing is the Architect's specifications and vigilance.

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Boston, Mass.—Belvidere St., near Falmouth St., Ward 11, 4 four-sty brick apartments, flat roofs, one, 33.11' x 56'; two, 22' x 63', and one, 37' x 68'; owner, W. H. Henderson; builder, J. W. Adams.

Warren St., No. 373, three-sty brick apartments, flat roof, 43.9' x 66'; owner, P. Burns; builder, D. W. Beckler.

Commonwealth Ave., No. 362, Ward 11, six-sty brick apartments, flat roof, 27.6' x 104.6'; owner, Henrietta K. White; builder, T. R. White.

Chicago, Ill.—C. Hickey, two-sty flats, 5158 Ashland Ave.; cost, \$2,800.

F. Gunter, four-sty flats, 88 Sigel St.; cost, \$6,500.

Mrs. C. Englbrecht, two-sty flats, 122 Henry St.; cost, \$4,000.

William Gaff, two-sty flats, 150 Ramsey St.; cost, \$2,000.

Anderson Bros., 5 two-sty flats, 96-104 Dickey St.; cost, \$2,000.

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Fred Piehl, two-sty flats, 3604 Bloom St.; cost, \$3,600.

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W. L. Beck, three-sty flats, 318 Forty-fifth St.; cost, \$4,000.

Thomas Kellher, two-sty flats, 5619 La Salle St.; cost, \$1,500.

Fred Reusch, two-sty flats, 344 Dudley St.; cost, \$3,200.

R. Potchell, two-sty flats, 4619 Emerald Ave.; cost, \$2,500.

John Gerie, 5 two-sty flats, Forty-fifth and Atlantic Sts.; cost, \$7,500.

C. Anderson, two-sty flats, 3625 La Salle St.; cost, \$4,000.

Michael Stanley, two-sty flats, 932 Thirty-fifth St.; cost, \$2,500.

William Wilkinson, two-sty flats, 3511 Butterfield St.; cost, \$2,800.

John C. Voght, two-sty flats, 240 Hamlin St.; cost, \$5,000.

J. S. Leander, two-sty flats, 30 Ashland Ave.; cost, \$2,500.

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D. Krack, two-sty flats, 105 West Eleventh St.; cost, \$3,500.

George Allen, two-sty flats, Sixty-third and Halsted Sts.; cost, \$3,500.

New York, N. Y.—Fifty-third St., n s, bet. Seventh and Eighth Aves., 2 five-sty brick and stone flats; cost, \$44,000; owner, Alex. Moore; architect, Geo. Keister.

Fifty-third St., s s, bet. Tenth and Eleventh Aves., 6 five-sty brick and stone flats; cost, \$102,000; owner, Mr. Lovell; architect, W. Holman Smith.

St. Louis, Mo.—Two two-sty flats; cost, \$10,000; owner and contractor, Jas. Flannery.

Two-sty brick flats; cost, \$4,200; owner, Wm. C. Walls; contractor, J. H. Randall.

CHURCHES.

Collingswood, N. J.—Church for the First Baptist Church of Collingswood; cost, \$3,500; Trustees: Geo. W. Stoker, H. N. McKinney, Josiah Stokes and Glendora Devoe.

Louisville, Ky.—The congregation of the First Presbyterian Church will build an edifice to cost abt. \$40,000.

Nashville, Tenn.—An edifice, to cost \$30,000, will be built for the Tulip St. Methodist Church.

New York, N. Y.—Tenth Ave., n w cor. Ninety-ninth St., St. Michael's Episcopal Church, church; cost, abt. \$120,000; architect, E. W. Gibson.

Philadelphia, Pa.—Twenty-eighth and Stiles Sts., Zion Presbyterian Church, stone church, Gothic style; cost, abt. \$20,000; architect, Wm. H. Decker.

Reading, Pa.—Methodist Church; cost, \$50,000; architect, Thomas P. Lonsdale.

Richmond, Va.—A. L. West, architect, is preparing plans for a church for the Grace St. Baptist congregation to cost abt. \$40,000.

St. Louis, Mo.—One-sty brick church; cost, \$7,200; owners, Cardit. M. E. Church; contractors, Nelson & Brady.

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Camden, N. J.—Market St., No. 37, frame factory; owners, Hirst & Malery, 833 Linden St.

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Liberty, Va.—The Bedford City Land and Improvement Co. contemplate the building of a hotel to cost, \$50,000.

Lynchburg, Va.—The building of a hotel, to cost \$200,000, is talked of.

St. Louis, Mo.—Two-sty brick hotel; cost, \$38,000; owner, J. D. W. Davis; contractors, Grunewald & Wend.

HOUSES.

Baltimore, Md.—Baltimore Butchers' Mutual Protective Association, 3 three-sty brick buildings, e s Pennsylvania Ave., bet. North Ave. and Retreat St.

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Boston, Mass.—Park St., near Dorchester Ave., Ward 24, frame dwell., 22' x 23'; owner, Catharine Bartley; builder, W. J. Jobling.

Bearse Ave., near Butler St., Ward 24, frame dwell., 25' x 30'; owner, H. F. Burrill; builder, James Pope.

Neponset Ave., Nos. 226 and 329, Ward 24, two frame dwells., one flat roof, one pitch roof, 26' x 30'; owner, H. B. Blackwell; builders, J. A. Vickery & Son.

East Broadway, No. 618, Ward 14, three-sty frame dwell., flat roof, 30' x 43.5'; owner, John O'Connor; builder, J. McNamara.

Norfolk St., No. 378, Ward 24, frame dwell., 24' x 37'; owner, T. Connolly; builder, B. J. Connolly.

Williams St., Ward 19, 16 three-sty brick dwells., flat roofs, 20' x 40'; owner, J. H. Mullen; builder, W. H. Smith.

Tuttle Ave., near Savin Hill Ave., Ward 24, frame dwell., 22' x 37'; owner and builder, J. H. Beale.

Knoll St., near Walter St., Ward 23, frame dwell., 24' x 36'; owner, Alma M. Morton; builder, Thomas Condon.

Cottage St., No. 13, cor. unnamed st., Ward 20, three-sty frame dwell., flat roof, 37' x 60'; owner, Thomas Leland; builder, A. S. Lang.

Idaho St., near River St., Ward 24, frame dwell., 23' x 47'; owner, E. L. Moulton; builder, F. M. Severance.

Cowper St., cor. Wordsworth St., Ward 1, frame dwell., 20' x 30'; owner, Joseph Butt; builder, T. Yeomans.

Everett Sq., near Raymond St., Ward 25, three-sty frame dwell., flat roof, 32' x 32'; owners, G. Alcock and W. McKay; builders, Alcock & McKay.

Nelson St., near Corbett St., Ward 24, frame dwell., 22' x 28'; owner, J. McAuley; builder, W. A. Macauley.

Neponset Ave., near Pope's Hill, Ward 24, frame dwell., 26' x 49'; owner, Thomas Cox; builder, W. J. Jobling.

Nixon Ave., near Mather St., Ward 24, frame dwell., 32.6' x 37'; owner, J. W. Bicknell; builder, H. H. Smith.

Main St., Nos. 102-104, cor. Central Pl., Ward 5, 2 three-sty frame dwells. and stores, 23.3' x 49'; owner, J. S. Whiting; builder, J. B. Maynard.

Bunker Hill St., Ward 4, three-sty frame dwell., 24' x 54'; owner, P. J. Donovan; builders, Donovan & Brock.

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frame dwell., 25' x 36'; owner, James Campbell;
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Whitfield St., cor. Clarence Pl., Ward 24, frame
dwell., 20' x 33'; owner, Agnes J. Wyman; builder,
H. N. Wyman.

Brown Ave., cor. Marion Ct., Ward 23, frame
dwell., 22' x 27'; owner, Frank Glover; builder,
A. Rogers.

Centre St., cor. Park St., Ward 23, three-st'y
frame dwell. and store, flat roof, 30' x 50'; owner,
Mary A. Canavan; builders, Swanson & Murray.

I St., Nos. 210-212, Ward 14, 2 three-st'y frame
dwell., flat roof, 23' x 41'; owners, J. & A. L. Meh-
linger; builder, P. F. Hanlon.

Perham St., near Ivory St., Ward 23, frame
dwell., 20' x 43'; owner, J. C. Horton; builder, A.
Rogers.

Pierpont St., No. 163, Ward 19, three-st'y frame
dwell., flat roof, 20.5' x 41'; owner, P. Connelly;
builder, L. Le Blanche.

Manaur St., near Day St., Ward 22, three-st'y
frame dwell., pitch roof, 23' x 39'; owner, P. Glen-
non; builder, P. Crosby.

Washington St., near Woodside St., Ward 23,
three-st'y frame dwell., flat roof, 25' x 50'; owner
and builder, M. Gately.

Maple St., near Schuyler St., Ward 21, frame
dwell., 31.4' x 50'; owner, J. F. Wetherbee; build-
ers, Wood & Wetherbee.

Lime St., No. 25, Ward 9, three-st'y brick dwell.
and stable, flat roof, 40' x 63'; owner, A. Hemen-
way; builder, H. McLaughlin.

East Lenox St., Nos. 17-23, Ward 20, 4 three-st'y
brick dwells., flat roofs, 20' x 34'; owner and builder,
T. Connelly.

Geneva Ave., near Josephine St., Ward 24, frame
dwell., 22' x 34'; owner, O. J. O'Neil; builder, E. P.
Oakman.

Cottage St., No. 15, Ward 20, three-st'y frame
dwell., flat roof, 22.5' x 62'; owner, T. Leland;
builder, A. G. Lang.

West Eagle St., near Meridian St., Ward 1, frame
dwell., 24.6' x 48.4'; owner, Mrs. M. J. McKie;
builder, F. A. Jones.

Virginia St., No. 25, Ward 20, two-st'y frame
dwell., hip roof, 34.1' x 52.6'; owner, Mrs. A. P.
Smith; builder, A. Gunn.

Ruggles St., Nos. 8-16, Ward 19, 2 four-st'y frame
dwell., flat roofs, 27' x 60'; owner and builder, S.
Goldsmith.

Washington St., Nos. 2326-2328, Ward 21, four-
st'y brick dwell., flat roof, 28.12' x 102'; owners, J. S.
Waterman & Sons; builders, W. A. & H. A. Hart.

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Brookline, Mass.—Winchester and Coolidge Sts.,
frame dwell. and stable, 31' x 60'; owner, Reinhold
Klitzke; contract to be let; architects, Rodman &
Norris, Boston.

Brooklyn, N. Y.—Saratoga Ave., e s, from Chauncy
to Marion Sts., 8 three-st'y brick dwells., tin roofs;
cost, \$50,000; owner, James Smith, Broadway;
architect, Ernest Dennis, 115 Hired St.

De Kalb Ave., s w cor. Waverly Ave., 5 three-st'y
and basement brick dwells., tile and tin roofs; cost,
\$40,000; owner, Joseph Fahys, Clinton Ave.; archi-
tect, M. W. Morris, 45 Exchange Pl., New York.

Metropolitan Ave., No. 57, n s, 271' e Olive St., 2
three-st'y frame dwells., tin roofs; cost, \$4,000 each;
owners, Ermak & Lutz, 667 Grand St.; architect,
Chris. Bucheideit, 282 Powers St.

Vernon St., w s, 175' n Fulton Ave., two-st'y
frame dwell., tin roof; cost, \$3,600; owner, Dutch
Reformed Congregation, New Jersey Ave., near
Fulton St.

Liberty Ave., s s, 25' e Alabama Ave., two-st'y
frame dwell., tin roof; cost, \$3,000; owner, John
Kramer, Liberty St., near Alabama Ave.; architect,
Chas. Meins, 97 Sheffield Ave.

Central Ave., s e cor. Stockholm St., 2 four-st'y
frame dwells., tin roofs; total cost, \$12,000; owner,
Mrs. Louisa Ulber, 719 Flushing Ave.; architect,
Benj. Finkensieper, 33 Broadway.

Dupont St., n s, 300' w Oakland St., four-st'y
frame dwell., gravel roof; cost, \$5,500; owner, John
McCarthy, 168 Meserole Ave.; architect, F. Weber,
211 Manhattan Ave.

Warner St., s s, 50' e Nevins St., three-st'y frame
dwell., tin roof; cost, \$4,000; owner, John Molphy,
on premises; architect, John O'Neil, 462 Warren St.
Bushwick Ave., n w cor. Grove St., two-st'y frame
dwell., tin roof; cost, \$8,000; owner, John Wey-
gandt, Meserole and Humboldt Sts.; architect, Th.
Engelhardt, 905 Broadway.

Wyckoff Ave., w s, 54' 10" s De Kalb Ave., three-
st'y frame dwell., tin roof; cost, \$5,000; owner, Mrs.
Mary Jacob, 76 Humboldt St.; architect, Th. Engel-
hardt, 905 Broadway.

Butler St., n s, 50' e Bond St., three-st'y frame
dwell. and brick stable, gravel roof; cost, \$4,500;
owner, John H. Meyer, 176 Dean St.

Bushwick Ave., w s, 35' n Grove St., two-st'y frame
dwell., tin roof; cost, \$6,000; owner, Louis Brass,
92 Lewis Ave.; architect, Th. Engelhardt, 905 Broad-
way.

Bleeker St., s s, 150' e Evergreen Ave., three-st'y
frame dwell., tin roof; cost, \$4,500; owners, Gast-
meyer & Francisco, Evergreen Ave.; architect,
Frank Holmberg, 1161 Broadway.

Putnam Ave., n s, 195' w Howard Ave., 10 two-st'y
brick dwells., tin roofs; cost, \$4,000 each; owner,
Richard Geary, 576 Madison St.; architect, Wm.
Godfrey, 576 Madison St.

Hancock St., s s, 50' w Patchen Ave., two-st'y
brick dwell., gravel roof; cost, \$3,000; owner, I. B.
Booth, 132 Hart St.; architect, Frank W. Ames, 1002
Halsey St.

Prospect Pl., n s, 50' e Rogers Ave., 4 four-st'y

BUILDING INTELLIGENCE.

brick dwells., gravel roofs; cost, \$10,000 each;
owner, architect and builder, W. O. Thompson, 135
Lefferts Pl.

Eighth Ave., w s, bet. Windsor Pl. and Sixteenth
St., 8 three-st'y brick dwells., tin roofs; cost, \$4,000
each; owners and builders, Nassau Land and Im-
provement Co., 366 Sixteenth St.; architects, Frank
& Regan, 230 Warren St.

Eighth Ave., w s, n w cor. Windsor Pl. and s w
cor. Sixteenth St., 2 three-st'y brick dwells., tin
roofs; cost, \$5,000; owners and builders, Nassau
Land and Improvement Co., 366 Sixteenth St.;
architects, Frank & Regan, 230 Warren St.

Bushwick Ave., n e cor. Grove St., three-st'y brick
dwell., tin roof; cost, \$20,000; owner, Chas. Dors-
chuck, Bushwick Ave. and Linden St.; architect,
Th. Engelhardt, 905 Broadway.

Flushing Ave., n s, 150' e Vandervoort Pl., 5 three-
st'y frame buildings, hemlock and tin roofs; cost,
\$4,500; owner, George Gutting, 49 Varet St.; archi-
tect, F. J. Lessing, 952 Broadway.

Lexington Ave., n s, 190' w Therp Ave., three-st'y
brick dwell., tin roof; cost, \$5,500; owner, T. H.
Bryant, 272 Lewis Ave.; architect, S. D. Reynolds,
363 Fulton St.

Bushwick Ave., s e cor. Willoughby Ave., two-and-
one-half-st'y brick dwell., tin roof; cost, \$16,000;
owner, Wm. Ulmer, Bushwick and Willoughby
Aves.; architect, Th. Engelhardt, 905 Broadway.

Bushwick Ave., s s, 23' s Willoughby Ave., 4 two-
and-one-half-st'y brick dwells., tin roofs; cost, \$18-
000; owner, Wm. Ulmer, Bushwick and Willoughby
Aves.; architect, Th. Engelhardt, 905 Broadway.

Bushwick Ave., e s, 30' n Harman St., three-st'y
brick dwell., tin roof; cost, \$9,000; owner, J. M.
Otto, 46 Manjer St.; architect, Th. Engelhardt, 905
Broadway.

Decatur St., n s, 20' w Ralph Ave., and McDonough
St., s s, 20' w Ralph Ave., 8 two-st'y and basement
brick dwells., tin roofs; cost, \$4,500; owners, Knight
& Barton, 197 Van Buren St.; architect, S. D. Rey-
nolds, 363 Fulton St.

Huntington St., n w cor. Henry St., four-st'y brick
dwell., tin roof; cost, \$9,000; owner, J. M. Dalton,
Huntington and Henry Sts.; architect, Stephen
Hazzard, 175 Pacific St.

Decatur St., n w cor. Ralph Ave., and McDonough
St., s w cor. Ralph Ave., 2 three-st'y brick dwells.,
tin roofs; cost, each, \$6,000; owners, Knight & Bar-
ton, 197 Van Buren St.; architect, S. D. Reynolds,
363 Fulton St.

Stanhope St., s s, 300' e Evergreen Ave., two-st'y
frame dwell., tin roof; cost, \$3,400; owner, E. J.
Barnett, Flushing Ave., near Irving Ave.; architect,
Th. Engelhardt, 905 Broadway.

Arlington Ave., s s, 75' e Linwood Ave., 3 two-st'y
frame dwells., tin roofs; cost, each, \$1,600; owner,
B. W. Corey, 56 Pennsylvania Ave.; architect, A. J.
Warren, 2583 Atlantic Ave.

Pennsylvania Ave., w s, 225' s Atlantic Ave., two-
st'y frame dwell., tin roof; cost, \$4,000; owner,
Henry Breden, Pennsylvania and Atlantic Aves.;
architect, A. J. Warren, 2583 Atlantic Ave.

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Warwick St., w s, 100' n Fulton Ave., 3 two-st'y frame dwells., tin roofs; total cost, \$6,000; owner, James T. Newman, Warwick St., near Fulton Ave.; architect, Wm. Danmar, 2921 Atlantic Ave.

Buffalo, N. Y.—Howard Ave., frame dwell.; cost, \$4,500; owner, F. Arend; architects, M. E. Beebe & Son.

Seventh St., frame dwell.; cost, \$2,000; owner, F. L. Georger; architects, M. E. Beebe & Son.

Chicago, Ill.—W. Zoellner, one-st'y cottage, 3222 Paulina St.; cost, \$1,000.

G. F. Trevitte, 4 one-st'y cottages, 3301-3309 South Leavitt St.; cost, \$4,000.

Frank Drebus, one-st'y cottage, Dryer St., near Forty-sixth St.; cost, \$1,000.

W. B. Wright, two-st'y dwell., 4946 Prairie Ave.; cost, \$2,000.

C. E. Martin, two-st'y dwell., Howard Ave., near One Hundred and Thirty-sixth St.; cost, \$1,200.

Oscar Raabe, 2 two-st'y dwells., 41-43 Hein St.; cost, \$1,600.

John Meir, 2 one-st'y cottages, Morgan and Fifty-first Sts.; cost, \$1,200.

A. R. Cole, cottage, 6410 Winter St.; cost, \$1,100.

Henry Hoeppel, one-st'y cottage, 909 Dudley St.; cost, \$1,000.

Henry Hoeppel, one-st'y cottage, 829 Hoyne Ave.; cost, \$1,000.

H. E. Robbins, two-st'y dwell., 81 Aberdeen St.; cost, \$2,500.

F. B. Bailey, one-and-one-half-st'y cottage, 156 Clarkson St.; cost, \$1,000.

James Lynch, two-st'y dwell., 592 West Adams St.; cost, \$2,800.

Mrs. C. B. Niguel, cottage, 928 Matteson Ave.; cost, \$1,000.

M. Larson, two-st'y dwell., 695 Avenue A; cost, \$1,000.

J. A. Coleman, 2 two-st'y dwells., Lake Ave., near Forty-seventh St.; cost, \$6,000.

J. A. Coleman, 4 two-st'y dwells., Madison Ave., near Forty-seventh St.; cost, \$18,000.

J. A. Coleman, two-st'y dwell., 4420 Prairie Ave.; cost, \$4,000.

Anderson Bros., 12 two-st'y dwells., 199-217 Dickey St.; cost, \$24,000.

Frank W. Campbell, 22 three-st'y dwells., 3512-40 and 3513-41 Calumet Ave.; cost, \$100,000.

George A. Seaverns, five cottages, 1457-65 Thirty-fourth St.; cost, \$4,000.

H. Ries, two-st'y dwell., Michigan Ave. and Kensington St.; cost, \$1,500.

Voisicka & Kulin, 4 one-st'y cottages, 1518-20 and 1538-40 Fiftieth St.; cost, \$3,000.

Lincoln Brook, two-st'y dwell., 309 Fifty-fifth St.; cost, \$4,000.

J. Nowak, two-st'y dwell., 922 Clifton Pk.; cost, \$2,000.

Anderson Bros., 13 two-st'y dwells., 144-74 and 202-3 Dickey St.; cost, \$26,000.

H. M. Wiley, two-st'y dwell., Winter St., near Sixty-eighth St.; cost, \$2,000.

D. Ackerman, two-st'y dwell., Thirty-ninth St., near Hart St.; cost, \$2,000.

R. Lundman, one-st'y cottage, 114 Clarence St.; cost, \$1,000.

M. Sobinski, two-st'y dwell., 8307 Ontario St.; cost, \$1,000.

A. Schultz, one-st'y cottage, French Ave., near One Hundred and Third St.; cost, \$1,000.

G. F. Higginson, two-st'y dwell., 1182 Bonney Ave.; cost, \$2,300.

Lincoln Brook, 3 two-st'y dwells., Park End Ave., near Sixteenth St.; cost, \$6,000.

Thomas Nyhan, cottage, Sixty-third St., near Aberdeen St.; cost, \$1,000.

Mrs. Etta Sauterman, two-st'y dwell., 964 Central Park Ave.; cost, \$3,000.

John Cheroski, cottage, 900 South Fairfield Ave.; cost, \$1,400.

P. W. George, two-st'y dwell., Maple St., near School St.; cost, \$2,500.

Mrs. McLean, one-st'y cottage, 131 Clarence St.; cost, \$1,000.

Cincinnati, O.—Mitchel Mullen, three-st'y dwell., Pike St.; cost, \$3,150; architect, Levi P. Hazen.

Theo. Van Duellinen, two-and-one-half-st'y dwell., Colerain Ave.; cost, \$3,500; architect, G. A. Bast.

J. G. Farbach, Tower St., Carthage, O., two-and-one-half-st'y dwell.; cost, \$4,000; architect, Louis Walz.

E. H. Huesefeld, two double two-and-one-half-st'y dwells.; cost, \$12,000; architects, Rieg & Marty.

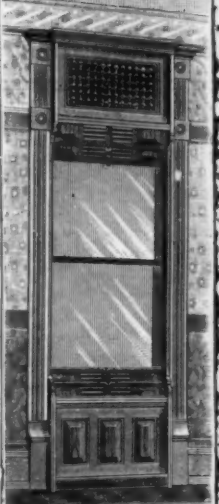
Albert Binger, three-and-one-half-st'y dwell., Liberty St.; cost, \$5,200; architect, Thos. Richter.

J. H. Kattenhorn, two-and-one-half-st'y dwell., Bereford and Gilbert Aves.; cost, \$6,500; architect, G. A. Bast.

Mrs. M. Dreesch, two-and-one-half-st'y dwell., Bogen St.; cost, \$3,200; architect, G. Drach.

Herman Weber, two-and-one-half-st'y dwell.,

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Val Bonhajo, two-and-one-half-st'y dwell., Hawthorn St.; cost, \$3,500; architects, Hannaford & Sons.

Denver, Col.—Corona St., near Eleventh Ave., two-st'y stone dwell.; cost, \$40,000; owner, Wm. Church; architects, Lang & Pugh.

Logan Ave., near Eleventh Ave., two-st'y brick dwell.; cost, \$8,000; owner, Robert N. Jones; architects, Lang & Pugh.

Clarkson St., near Eighteenth Ave., two-st'y brick dwell.; cost, \$4,000; owner, W. G. Parkhurst; architects, Balcombe & Rice.

Rice St., near Twenty-third Ave., two-st'y brick dwell.; cost, \$6,500; owner, H. C. M. Warren; architect, F. Goodnow.

Lafayette St., near Twenty-first Ave., two-st'y brick dwell.; cost, \$4,000; owner, R. O. Riddle; architect, H. Dozier.

Jay St., near Twenty-first Ave., two-st'y brick dwell.; cost, \$7,000; owner, J. Parker; architects, Balcombe & Rice.

Grand Rapids, Mich.—Dr. A. M. Platt, frame dwell.; cost, \$3,000; builder, H. E. Doren.

Mr. Boyd Paulind, frame dwell.; cost, \$5,000; architects, Masen & Rice, Detroit, Mich.

Holyoke, Mass.—W. Piquette, dwell., Pow Ave.; cost, \$3,000.

Lansdowne, Pa.—C. A. Huston, two dwells.; architect, Frank Miles Day.

Anthony J. Drexel, dwell.; engineers and contractors, R. C. Ballinger & Co.

Little Rock, Ark.—W. H. Woodsall, two-st'y brick veneered dwell.; cost, \$4,000; architect, Thos. Harding.

W. S. Holt, two-st'y frame dwell.; cost, \$3,000; architect, Fred. J. H. Kickon.

C. F. Penzel, 3 two-st'y frame dwells.; cost, each, \$2,200; architect, Fred. J. H. Kickon.

Louisville, Ky.—J. H. Leathers will build a brick dwell. to cost \$24,000; Geo. Gaubert, brick and stone dwell. to cost \$20,000; Geo. A. Robinson, brick and stone dwell. to cost \$18,000; E. A. Thompson, brick and stone dwell. to cost \$15,000; J. H. Sillas, brick and stone dwell. to cost \$11,000.

New York, N. Y.—One Hundred and Forty-seventh St., s s, 352' w St. Nicholas Ave., three-st'y brick dwell., tin roof; cost, \$15,000; owner, Denis J. Dwyer, 312 East Fifty-seventh St.; architects, Higgs & Rooke, 835 Broadway.

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One Hundred and Twenty-first St., n s, 80' w Lenox Ave., three-st'y brick dwell., tin roof; cost, \$20,000; owner, Frederick Aldhouse, 513 Lenox Ave.; architect, John C. Burne, 1531 Third Ave.

Seventy-second St., s s, 175' e Fifth Ave., 3 four-st'y brick dwells., tin and fireproof tile roofs; cost, \$75,000; owner, D. H. Buttman, 165 East Thirty-fourth St.; architect, James E. Ware, 45 Broadway.

Seventy-eighth St., n s, 98' e Tenth Ave., 8 four-st'y brick dwells., tin roofs; cost, \$144,000; owner, William H. Hall, 687 Madison Ave.; architects, Thom & Wilson, 1267 Broadway.

Mott Ave., e s, 144' s One Hundred and Forty-fourth St., 2 three-st'y brick dwells., tin roofs; cost, \$9,000; owner, Charles Van Riper, 683 East One Hundred and Forty-third St.; architect, H. S. Baker, 492 East One Hundred and Thirty-eighth St.

Forty-sixth St., n s, 73' w Third Ave., four-st'y brick dwell., tin roof; cost, \$10,000; owner, Thomas Regan, 719 Lexington Ave.; architect, John C. Burne, 1531 Third Ave.

Philadelphia, Pa.—South Fifteenth St., No. 262, dwell.; owner, J. W. Williams; architect, Wilson Eyre, Jr.

Eighteenth St., n e cor. Wolf St., 2 two-st'y dwells.; owner, Alfred Phillips, 2212 Siebold St.

Dorrance St., e s, n Moore St., 5 two-st'y dwells.; owner, Wm. J. Scott, 1745 Dorrance St.

Delaware St., n s, e Twenty-first St., two-st'y dwell.; contractor, D. R. Evans, 1614 Ontario St.

Canton St., e s, w Eleventh St., and Winton St., n s, w Eleventh St., 10 two-st'y dwells.; contractor, John Curran, 1838 Tasker St.

Hare St., n s, w Twenty-sixth St., 8 two-st'y dwells.; owner, John Stafford, 1606 Susquehanna Ave.

Park Terrace, n and s s, w Twenty-sixth St., 16 two-st'y dwells.; owner, John Stafford, 1606 Susquehanna Ave.

Folsom Ave., n and s s, w Twenty-sixth St., 16 two-st'y dwells.; owner, John Stafford, 1606 Susquehanna Ave.

Twenty-sixth St., w s, n Hare St., 15 three-st'y dwells.; owner, John Stafford, 1606 Susquehanna Ave.

E St., w s, a Venango St., 2 two-st'y dwells.; contractor, Frank Dietrich, 2677 Frankford Ave.

Sixteenth St., e s, s Dauphin St., 32 three-st'y dwells.; owner, John Stafford, 1606 Susquehanna Ave.

Broad St., w s, s Cumberland St., 12 three-st'y dwells.; owner, C. C. Moore, 2001 North Broad St.

Taber St., n s, w Second St., three-st'y dwell.; contractor, L. Alternaus, Olney.

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Morris St., s Penn St., two-st'y dwell.; contractor, Wm. Mackie, 67 Mannheim St.
Mather St., n Ontario St., 5 two-st'y dwell.; contractor, P. J. Baral, 1022 North Twenty-fourth St.
Sixteenth St., e s, n Ontario St., 5 two-st'y dwell.; contractor, P. J. Baral, 1022 North Twenty-fourth St.
Fifty-fifth St., n Vine St., two-st'y dwell.; owner, W. A. Patterson, Fifty-third St. and Wyalusing Ave.
South Broad St., No. 1232, three-st'y dwell.; owner, W. McCarter, s w Twenty-second and Race Sts.
South Fifteenth St., No. 262, four-st'y dwell.; contractor, Jacob Myers, 1315 Sanson St.
Daly St., s s, w Second St., 14 two-st'y dwell.; owner, Geo. F. Hes, Elmwood, Ward 27.
Mather St., o s, n Ontario St., two-st'y dwell.; contractor, H. A. Miller, 1609 Allegheny Ave.
Seventeenth St., w s, n Dauphin St., 22 two-st'y dwell.; owner, Wm. Rhodes, 230 Chestnut St.
Marston St., w s, s Cumberland St., 32 two-st'y dwell.; contractor, S. H. Morrison, Camden, N. J.
North Eighteenth St., No. 4399, three-st'y dwell.; owner, Jas. Mole, Doughton St.
Witter St., e s, s Clearfield St., 3 two-st'y dwell.; owner, Owen McArdle, 2544 East Lehigh Ave.
Monmouth St., n s, e Allmond St., 2 two-st'y dwell.; contractor, Wm. S. Morgan, 2654 Tulip St.
North Second St., No. 3646, two-st'y dwell.; contractor, F. McNamee, 1125 Christian St.
Bley St., w s, s Clearfield St., two-st'y dwell.; contractors, Dickson Bros., 3045 Frankford Ave.
Twenty-fifth St., e and w s, n Willow Grove Ave., three-st'y dwell.; contractor, John Owens, East Upsal St.
Horter St., n s, w Crowder St., 2 two-st'y dwell.; contractor, J. O. Broadbent, 514 Haines St.
Third St., n s, n Duncannon St., two-st'y dwell.; contractors, Polk & Corson, 2529 North Front St.
Knox St., w s, n Seymour St., two-st'y dwell.; owner, Nicholas Foley, Abbottsford Ave.
Clay St., n Centre St., 3 two-st'y dwell.; contractor, Robert Lees, 103 Levering St.
Church St., n Centre St., two-st'y dwell.; contractor, Robert Lees, 403 Levering St.
Eighteenth St., e and w s, n from Dauphin St., 56 two-st'y dwell.; owner, Wm. Rhodes, 230 Chestnut St.
Somerville, Mass.—Wyatt St., frame dwell., 22' x 27'; owner, W. P. Rice; builders, Gould & Murray.
Hanson St., cor. Washington St., frame dwell., 24' x 40'; owner, John Beattie; builder, Wm. H. Patterson.

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Architect's designs for Roof-Trusses worked up.



BUILDING INTELLIGENCE.

Franklin St., near Broadway, frame dwell., 25' x 31', with L, 20' x 20'; owner, Miss L. J. Chandler; builder, Mark Leighton.
Elm St., east of William St., frame dwell., 26.8' x 28'; owner and builder, Joseph Millere.
Grant St., two frame dwells., 24' x 23', with L, 3' x 12'; owner, Edward A. Perkins; builder, Geo. E. Ricker.
Summit St., two frame dwells., one 28' x 36', other, 24' x 34'; owner and builder, Joseph Miller.
Springfield, Mass.—Geo. S. Lewis, two-st'y dwell., cor. State and Buckingham Sts.; cost, \$10,000; architect, J. Perkins.
St. Louis, Mo.—Two-st'y brick dwell., cost, \$4,000; owner, W. H. Dunbar; contractors, Nicholson Bros.
Two two-st'y brick dwells., cost, \$6,000; owner, F. M. Teutenberg; contractor, F. W. Loffhagen.
Two two-st'y brick dwells., cost, \$5,000; owner, A. L. Eilers; contractor, I. A. Beach.
Two-st'y brick dwell., cost, \$12,000; owner, Emma Richter; contractors, W. Rieve & Son.
Two-st'y brick dwell., cost, \$4,400; owner, J. H. Helts; contractor, H. Ellerman.
Two-st'y brick dwell., cost, \$3,500; owner, F. O. Seifert; contractor, E. A. Sanguinet.
Two-st'y brick dwell., cost, \$4,800; owner, J. Cotter; contractor, M. B. Scanlon.
Two-st'y brick dwell., cost, \$3,500; owner, J. G. Haas; contractor, E. Wind.
Two-st'y brick dwell., cost, \$2,500; owner, P. Connelly; contractor, R. Deutman.
Two-st'y brick dwell., cost, \$6,000; owner, Mrs. Buehler; contractor, J. C. Flynn.
Two-st'y brick dwell., cost, \$2,500; owner, M. Brennan; contractor, M. Britt.
Two-st'y brick dwell., cost, \$3,900; owner, Aug. Len; contractor, H. Ellerman.
Two-st'y brick dwell., cost, \$16,000; owner, Th. Papin; contractor, S. L. Jones.
Four two-st'y brick dwells., cost, \$12,000; owners and contractors, Flotron & Flurin.
Three-st'y brick dwell., cost, \$5,000; owner, F. W. Brockman; contractor, J. H. Dudley.
Two-st'y brick dwell., cost, \$2,900; owner, C. Dalton; contractor, J. Costello.
Two-st'y brick dwell., cost, \$3,200; owner and contractor, J. M. Devitt.
Two two-st'y brick dwells., cost, \$9,000; owner and contractor, James Flannery.
Two-st'y brick dwell., cost, \$3,500; owner, J. Schrick; contractors, Wm. Gahl & Co.
Three-st'y brick dwell., cost, \$5,000; owner, H. Oldeg; contractor, Herkenbof.
Two-st'y brick dwell., cost, \$2,500; owner, H. W. Barkhofer; contractor, H. B. Schmitz.
Two-st'y brick dwell., cost, \$4,500; owner, Mrs. C. F. Robertson; contractors, Thomson & Valleroy.
Two-st'y brick dwell., cost, \$3,000; owners and contractors, Duffner & La Barge.
Two-st'y brick dwell., cost, \$3,000; owners and contractors, Duffner & La Barge.
Two-st'y brick dwell., cost, \$3,500; owner, Wm. C. Wisberg; contractor, H. A. Christopher.
Two-st'y brick dwell., cost, \$3,000; owner, Maggie O'Brien; contractor, H. A. Christopher.
Two-st'y brick dwell., cost, \$3,000; owners and contractors, Duffner & La Barge.

BUILDING INTELLIGENCE.

Two-st'y brick dwell., cost, \$5,000; owner, H. Frein; contractor, G. J. Darr.
Two-st'y brick dwell., cost, \$9,500; owner, H. Semple; contractor, W. C. Popp.
Two-st'y brick dwell., cost, \$4,700; owner, C. Sleving; contractor, H. Ellerman.
Two two-st'y brick dwells., cost, \$5,000; owners and contractors, Stewart & Sturgeon.
Two-st'y brick dwell., cost, \$13,000; owner, T. E. White; contractors, Kerr & Allen.
Two-st'y brick dwell., cost, \$3,000; owner, Mrs. A. M. O'Fall; contractors, J. O. Reid & Co.
Three-st'y brick dwell., cost, \$25,000; owner, Mrs. A. S. Morrison; contractor, P. McCarthy.
Two-st'y brick dwell., cost, \$3,500; owner, E. S. Guignon; contractors, A. & J. Shassare.
Two-st'y brick dwell., cost, \$2,700; owner, Geo. Walts; contractor, D. G. Hughes.
Upton, Pa.—Israel Morris, dwell.; architect, Addison Hutton.
OFFICE-BUILDINGS.
Grand Rapids, Mich.—Five-st'y red brick and stone office-building, cost, abt. \$40,000; owner, John Goldsmith; architect, J. Osgood.
PUBLIC BUILDINGS.
Archer, Tex.—A court-house for Archer County, to cost \$40,000, will be built.
SCHOOL-HOUSES.
Philadelphia, Pa.—Thirtieth St., n w cor. Herman St., three-st'y school-house; contractor, Chas. McCaul, 422 North Eleventh St.
St. Louis, Mo.—Two-st'y brick school; cost, \$3,200; owner and contractor, I. A. Bemis.
STABLES.
Brookline, Mass.—Winchester and Coolidge Sts., frame stable, 28' x 51'; owner, Reinhold Klitzke; contract to be let; architects, Rodman & Norris, Boston.
Boston, Mass.—Ocean St., rear, near Welles Ave., Ward 24, one-st'y frame stable, 23' x 33'; owner, E. W. Clark; builder, John Baas.
Torrey St., near Washington St., Ward 24, one-st'y frame stable, 18' x 29'; owner, J. Coleman.
Camden, N. J.—Morris St., s s, w Nineteenth St., two-st'y stable; contractor, F. Brennan, 1713 South Seventeenth St.
Franklin St., o s, n Ruan St., two-st'y stable; contractor, E. C. Winual, 4637 Worth St.
Stiles St., w s, n Tucker St., two-st'y stable; owner, Thos. Waters, Bridge and Jackson Sts.
Knox St., w s, n Seymour St., two-st'y stable; owner, Nicholas Foley, Abbottsford Ave.
Viola St., ab. Paul St., one-st'y frame stable; owner, A. Jordan, 721 Terry Road.
Eighth and Fairview Sts., frame stable; owner, Herman Fonder, on premises.
Lemon St., ab. Eighth St., one-st'y frame stable; owner, Mary Ann Mason.
Sycamore St., No. 1128, one-st'y frame stable; owner, Chas. Ruhle, on premises.
Chicago, Ill.—L. W. Stone, two-st'y barn, 4443 State St.; cost, \$3,000.

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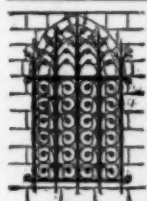
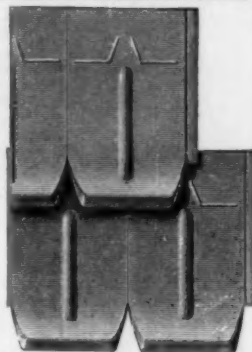
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TILES.**

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Fine Wrought Iron Work
For Banks and Buildings.

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WROUGHT & CAST IRON
ARTISTIC & STRUCTURAL

DALTON, GEORGIA.
Removed from Philadelphia.
For Buildings,
Railings, Gates etc.
Roofs, Columns, etc.

BUILDING INTELLIGENCE.

Somerville, Mass.—Berkeley St., frame stable, 28' x 35'; owner, H. S. Clark; builder, Jesse S. Rich.
Chapel St., frame stable, 29' x 35', for three horses; owner, Thomas H. Eames.

STORES.

Buffalo, N. Y.—Main St., cor. Huron St., store, etc.; cost, \$150,000; owners, J. D. Rockefeller and Daniel O'Day; architects, Green & Wick.
Main St., stores, etc.; cost, \$45,000; owner, J. C. Jewett; architects, M. E. Beebe & Son.

Chicago, Ill.—M. Hardin, two-sty store and flats, 967 West Twelfth St.; cost, \$8,000.

William Hoban, three-sty store and flats, 236 Noble St.; cost, \$6,000.

James Hagda, three-sty store and flats, 685 West Nineteenth St.; cost, \$4,000.

Mrs. Sarah Baker, two-sty store and flats, Thirty-ninth St. and Hart Ave.; cost, \$3,000.

C. Bierman, one-sty store, 841 Austin Ave.; cost, \$1,500.

John Waska & Son, two-sty store and flats, 930 Clifton Park; cost, \$4,500.

Louis Kings, four-sty store and flats, 1062 West Twelfth St.; cost, \$13,000.

J. Killburg, 4 two-sty stores and flats, 921-923 West Twelfth St.; cost, \$12,000.

Simon Soki, 3 two-sty stores, flats and barn, 548 West Nineteenth St.; cost, \$10,000.

John Gobel, three-sty store and flats, 814 North Halsted St.; cost, \$6,000.

B. Babka, two-sty store and flats, 1318 Hinman St.; cost, \$3,300.

J. Bernhard, one-sty store and dwell., 914 North Halsted St.; cost, \$1,200.

J. J. McCarthy, two-sty store and flats, 878 Lincoln Ave.; cost, \$2,800.

Frank Semran, two-sty store and flats, 8727 Commercial Ave.; cost, \$1,400.

C. A. Thornton, two-sty store and dwell., 611 Sixty-ninth St.; cost, \$2,500.

William Jacob, two-sty store and flats, 4638 Ashland Ave.; cost, \$3,000.

Thorbar Nelson, four-sty store and flats, 93 Center Ave.; cost, \$6,000.

Joseph Aubry, two-sty store and flats, 5343 South Halsted St.; cost, \$2,000.

Louis Haaker, three-sty store and flats, 838 Belmont Ave.; cost, \$8,000.

James P. Tunsey, 10 three-sty stores and flats, Wentworth Ave., bet. Sixty-first and Sixty-second Sts.; cost, \$35,000.

E. O. Sanger, two-sty store and flats, 6303 Halsted St.; cost, \$1,500.

William Hermitage, two-sty store and flats, 3229 Cottage Grove Ave.; cost, \$2,500.

John Sweeney, three-sty store and flats, 446 Thirty-first St.; cost, \$5,000.

P. A. Olson, three-sty stores and flats, 3728 Wentworth Ave.; cost, \$4,000.

John Giannon, two-sty store and flats, 1291 West Van Buren St.; cost, \$3,500.

Thomas Olson, four-sty store and flats, 358 West Erie St.; cost, \$15,000.

Mrs. Julia Larkowski, three-sty store and flats, 405 Fourteenth St.; cost, \$5,000.

Cincinnati, O.—Henry Dieteling, two-and-one-half-sty store and flats, Gest and Wilder Sts.; cost, \$6,000; architect, B. A. Bast.

Denver, Col.—Stout St., cor. Seventeenth St., two-sty brick store-building; cost, \$20,000; owner, F. E. Bishop; architects, Andrews, Jacques & Rantoul.

Larimer St., bet. Sixteenth and Seventeenth Sts., two-sty brick store-building; cost, \$22,000; owners, Pierson & Murry; architect, Jno. J. Huddart.

Larimer St., bet. Twenty-eighth and Twenty-

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ALUMINIUM.**

THE COWLES

ELECTRIC SMELTING AND ALUMINIUM CO.,

OF CLEVELAND, OHIO,

Offer their ALUMINIUM, when alloyed with Copper, in ingots at \$2.00 per lb. subject to analysis.

Aluminium Bronze or Brass are the most perfect and beautiful yellow metals that can be put into a building.

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Heavy Manganese Bronze Castings

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Galvanized Iron Cornices

Window Caps and SKYLIGHTS.

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431 to 439 South Sixth St., ST. LOUIS, MO.

BUILDING INTELLIGENCE.

ninth Sts., two-sty brick store-building; cost, \$6,600; owner, M. Piaroh; architect, Alex. Cazin.

Somerville, Mass.—Somerville Ave., frame block of two stores and lodge-room, 49' x 44'; owner, Mrs. A. Sanborn; builder, William E. Jones.

St. Louis, Mo.—Three-sty brick store and dwell.; cost, \$7,000; owner, M. Haupt; contractors, Hansen & Weber.

One-sty brick store; cost, \$5,000; owner, J. M. Ghio; contractor, T. J. Kelly.

Two-sty brick store; cost, \$9,000; owners, Ills. Milk Co.; contractor, J. H. Bowler.

Three-sty store and rooms; cost, \$4,000; owner and contractor, Jas. Heine.

Two-sty brick store and dwell.; cost, \$24,000; owners, Taaf & Gay; contractors, Paulus & Weidemuller.

Three-sty brick store and dwell.; cost, \$6,500; owner, F. L. Boehm; contractor, J. H. Remmers.

Three-sty brick store and dwell.; cost, \$3,600; owner, Henry Lohse; Thielko Bros.

TENEMENT-HOUSES.

St. Louis, Mo.—Two-sty brick tenement; cost, \$6,000; owners, J. H. Randell & Son; contractor, J. H. Randell.

Two-sty brick tenement; cost, \$6,000; owner, Daniel Sutton; contractor, J. H. Randell.

THEATERS.

Brooklyn, N. Y.—Jay St., e. s. 70' n Fulton St., brick theatre with parquet and two galleries, tin roof; cost, \$50,000; owner, John W. Holmes, on premises; architect, Robert Dixon, 219 Montague St.

WAREHOUSES.

Chicago, Ill.—Maypole Bros., four-sty warehouse, 110 South Canal St.; cost, \$14,000.

Springfield, Mass.—Meckins, Packard & Co., two-sty warehouse; cost, \$19,000; builder, Mr. Shaw; architect, G. Code.

MISCELLANEOUS.

Boston, Mass.—Edinboro St., No. 22, and Kingston St., No. 137, Ward 10, six-sty brick mercantile building, flat roof, 43.6' x 66'; owner, C. E. Cotting, trustee; builders, Woodbury & Leighton.

Camden, N. J.—Gates St., n. s. w. Wood St., two-sty shop and stable; contractor, J. W. Fitzinger, Gates St., Roxborough.

Seventy-first St., s. e. cor. Paschall Ave., three-sty shop; contractor, Jas. Kelly, Jr., Seventy-second St. and Gray's Ferry.

Chicago, Ill.—George Randish, one-sty storage house, 354-356 Wabash Ave.; cost, \$1,500.

S. H. Wheeler, two-sty laundry, 1349 West Madison St.; cost, \$2,500.

George Geringer, basement, 3044 Emerald Ave.; cost, \$1,200.

Cincinnati, O.—Jacob Vogel, three-sty pork-house, Coleraine Ave.; cost, \$10,000; architect, Fred. Attilipp.

J. G. & T. DIMOND,
Architectural Iron - Works.
ESTABLISHED 1852.

209 and 211 West 33d Street, New York City.

IRON

Work for Buildings, Stairs, Columns, Railings, etc., etc.
Special attention given to Ornamental Wrought-Iron Work.

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PHENIX IRON COMPANY,

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Manufacture Rolled Beams, Channels, Angles, Tee, Shape and Bar Iron of all sizes.

Roof Trusses, Girders, and Joists for fire-proof buildings, trusses and fitted as per plans.

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C. W. GESNER, 15 State St., N. Y.

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N. CHENEY. } OFFICE: { 207 BROADWAY,
O. HEWLETT. } New York

Book giving strength of wrought-iron girders, beams, and cast-iron columns mailed on application.

BUILDING INTELLIGENCE.

Little Rock, Ark.—National Bank of Commerce, three-sty pressed-brick bank-building; cost, \$25,000; architects, Orlopp & Kuener.

Home Water Co., brick pump-house; cost, \$6,000; contract not let; architect, Fred J. H. Rickon.

Philadelphia, Pa.—Tucawanna St., No. 4222, three-sty back building and machine shop; owner, Geo. Oldham, at place.

Sixth St., w. s. s. Indiana Ave., two-sty shop; owner, Geo. G. Huber, 2559 Reese St.

Jefferson St., Nos. 2629-31, three-sty wagon shop; owner, Jos. McArthur, 2550 Columbia Ave.

Springfield, Mass.—D. W. Stevens, brick brass foundry, cor. Worthington and Dwight Sts.

St. Louis, Mo.—Three-sty brick hall, store and dwell.; cost, \$10,000; owner, H. Pielsticker; contractor, Aug. Fick.

Winchester, Mass.—Brick and stone post-office and bank-building; owners, A. & S. Thompson; contract to be let; architects, Rand & Taylor, Boston.

PROPOSALS.

ELECTRIC-LIGHTING. [At Asheville, N. C.]

ASHEVILLE, N. C., February 28, 1890.

The city of Asheville, N. C., invites proposals for lighting by electricity the city for a period of two years from October 1, 1890.

Proposals to contemplate an opinion giving the city the right to purchase the plant at expiration of the period mentioned.

Time for receiving bids is limited to May 1, 1890.

The right is reserved to reject any or all bids, and to waive any defects.

CHARLES D. BLANTON, Mayor.

F. N. MILLER, City Clerk.

745

BRONZE CASTING.

[At Cleveland, O.]

OFFICE OF THE EXECUTIVE COMMITTEE

OF THE BOARD OF COMMISSIONERS,

CUYAHOGA CO.,

SOLDIERS' AND SAILORS' MONUMENT,

CLEVELAND, O., March 20, 1890.

Sealed proposals will be received by the Executive Committee until 12 o'clock M. Thursday, the

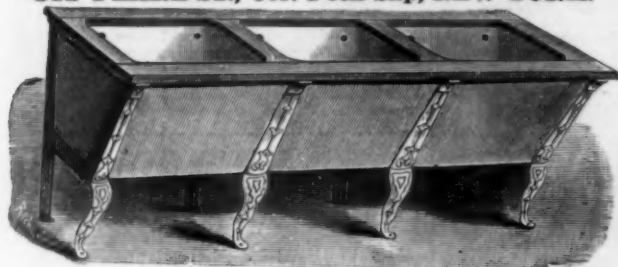
10th day of April, 1890, from bronze-founders actually engaged in the business, for the bronze castings and other work pertaining thereto, to wholly complete and set in place on the site selected in

Cleveland, O., when the Committee directs a Navy Group, called the "Mortar Practice," composed of six figures, about 7' 6" high, together with a 13" mortar of proportionate size, mounted on a base or plinth about 7' x 19'.

Bids to be endorsed "Proposals for Bronze Statuary," and addressed to the care of Levi F. Bauder, Secretary of the Board of Commissioners, Wick Block, Cleveland, O.

The plaster moulds can be seen at the studio on

Sanitary Appliances

STEWART CERAMIC COMPANY,
312 PEARL ST., Cor. Peck Slip, NEW YORK.Sole Manufacturers under
Morahan's Patents of**THE
CELEBRATED
SOLID WHITE
CROCKERY
STATIONARY
WASH-TUBS.**The only Perfect Sanitary
Tubs now in Ex-
istence.**VERY STRONG.**
No seams to open. Ab-
solute cleanliness se-
cured for all time.
WELL GLAZED.

SHOWING THREE TUBS SET UP.

The only Solid White Crockery Wash-tub ever made in the world. Do not buy imitations until you see
the genuine "Morahan's Patent," stamped on the front of every tub. Wash-board and Soap-cup moulded
in every set. Will outlast any house.Solid White Crockery Sinks, comprising Butler's Pantry, Kitchen, Slop, etc.,
Made of same material as the tubs. Very strong, well glazed, no labor required to keep clean.
LIBERAL TERMS TO THE TRADE. SEND FOR PRICE-LIST AND CATALOGUE.

Will not absorb, leak or decay

LAUNDRY MACHINERY. HOTEL and INSTITUTION
WORK
Carefully Handled.
[ESTABLISHED 1861.]
Send for Catalogue. **OAKLEY & KEATING, 40 Courtlandt St., NEW YORK.**

PROPOSALS.

Rockwell Street, in rear of the City-hall, where a
member of the Committee will give any information
desired.Written information can be obtained by addressing
Levi T. Scofield, Architect, 22 Case Block, Cleve-
land, O.Each bid to be accompanied by a written guaranty
signed by two responsible sureties.The Commissioners reserve the right to reject any
or all bids, to accept or decline to close a contract, as
in their discretion they shall deem it their duty to do.The time for completion and delivery of castings
must be stated, and will be considered in awarding
the contract.Bids will only be received for first-class standard
statuary bronze and first-class workmanship.

WM. J. GLEASON, Chairman,

JAMES HAYL,

JAMES BARNETT,

J. B. MOLYNEAUX,

LEVI T. SCOFIELD,

Executive
Committee.

745

YELLOW PINE.

[At New York, N. Y.]

March 19, 1890.

Sealed proposals, indorsed "Proposals for Yellow
Pine Plank, etc., for the New York Navy Yard, to be
opened April 22, 1890," will be received at the Bureau
of Provisions and Clothing, Navy Department, Wash-
ington, D. C., until 12 o'clock, noon, April 22,
1890, and publicly opened immediately thereafter, to
furnish at the New York Navy Yard, 12,000 feet yellow
pine plank; also a quantity of tools, consisting of
drills, files, etc.The articles must conform to the Navy standard
and pass the usual naval inspection.Blank proposals will be furnished upon application
to the Commandant of the Navy Yard, the Navy Pay-
office, New York, or to the Bureau.

Tie-bids decided by lot.

The Department reserves the right to reject any or
all bids not deemed advantageous to the Government.

GEO. DEWEY,

Acting Chief of Bureau.

746

COURT-HOUSE.

[At Richmond, Ind.]

The Board of Commissioners of Wayne County,
Ind., will receive bids and proposals for the erection
of a new court-house at the City of Richmond.Building to be 212 x 124 feet, to be built of stone and
iron, and to be a fireproof building.Bids will be received on entire work, or in classes,
to 12 o'clock M. on May 2, 1890, at the Auditor's
office of said county.Plans and specifications prepared by James W. Mc-
Laughlin, Architect, Cincinnati, O., adopted by the
Board, are on file in said Auditor's office and in the
office of the architect, Cincinnati, O.

For particulars, address

FINLEY NEWLIN,

Auditor, Richmond, Wayne County, Ind.

745

March 22, 1890. Sealed proposals will be received at
the office of the Supervising Architect, Treasury De-
partment, Washington, D. C., until 2 o'clock P. M., on
the 22d day of April, 1890, for all the labor and materials
required in the erection and completion of the United
States Court-house and Post-office building at Ashe-
ville, N. C. (approaches and heating apparatus not in-
cluded), in accordance with the drawings and specifica-
tion, copies of which may be had on application at
this office or the office of the Superintendent. Each
bid must be accompanied by a certified check for
\$500. The Department will reject all bids received
after the time fixed for opening the same; also bids
which do not comply strictly with all the require-
ments of this invitation. JAMES H. WINDRIM,
Supervising Architect.March 12, 1890. Sealed proposals will be received at
the office of the Supervising Architect, Treasury De-
partment, Washington, D. C., until 2 o'clock P. M., on
the 8th day of April, 1890, for all the labor and mate-
rials required to complete the approaches to the
United States Post-Office, etc., building at St. Joseph,
Mo., in accordance with specification and drawing,
copies of which may be had on application at this
office or the office of the Superintendent. Each bid
must be accompanied by a certified check for \$300.
The Department will reject all bids received after the
time fixed for opening the same; also, bids which donot comply strictly with all the requirements of this
invitation. JAS. H. WINDRIM, Supervising Archi-
tect.

744

IRON PIPES AND FIXTURES.

[At Fort Worth, Tex.]

Sealed proposals will be received up to the hour,
3 P. M., Monday, March 31, 1890, at the City
Water-Works Office, Fort Worth, Texas, by the under-
signed Committee and Superintendent, for furnishing
all material and appurtenances necessary for con-
structing 54 miles of water-mains complete in the
ground, according to the plans and specifications on
file at the office of the Superintendent.2. For furnishing the following cast-iron pipe, etc.
190 tons of 6-inch pipe, 33 pounds per foot.
224 tons of 8-inch pipe, 50 pounds per foot.
241 tons of 10-inch pipe, 65 pounds per foot.
103 tons of 12-inch pipe, 82½ pounds per foot.
14 tons of specials.45 fire-hydrants, with steamer connections (6-inch
connection to main).

Twelve 6-inch gate-valves and valve-boxes.

Six 8-inch gate-valves and valve-boxes.

Four 10-inch gate-valves and valve-boxes.

One 12-inch gate-valve and valve-box.

29,311 pounds of lead and 1,777 pounds of hemp
packing, F. O. B. cars at Fort Worth.All proposals to be made on blank forms furnished
on application by the Superintendent.Each bid to be accompanied by a certified check for
five hundred dollars as a guaranty that he or they
will enter into a good and sufficient bond, to be
approved by the Mayor of said city and City Council.
The right is reserved to reject any and all bids.A. W. SCOBLE,
Superintendent.
744GEORGE NIES,
A. B. FRASER,
W. J. BAILEY,
Water-Works Committee.**EXTERIOR MARBLE WORK.**

[At Boston, Mass.]

OFFICE OF BRIGHAM & SPOFFORD, ARCHITECTS,
27 MT. VERNON STREET, BOSTON, MASS.Sealed proposals will be received at this office until
12 M., on the 31st day of March, 1890, for furnish-
ing and delivering, ready for setting, marble ashlar
work for the first story and balustrade of the Massachu-
setts State-house extension, Boston, Mass., in accord-
ance with plans and specifications, copies of which
and any additional information relating thereto, may be
had on application at the office of Brigham &
Spofford, architects, 27 Mt. Vernon Street, Boston,
Mass.The Commissioners reserve the right to reject any
and all bids, and bids received after the time named
will not be considered.JOHN D. LONG,
BENJ. D. WHITCOMB, } State-house Extension
WM. ENDICOTT, JR. } Commissioners.
744**WATER-WORKS SUPPLIES.**

[At San Bernardino, Cal.]

March 5, 1890.

Up to noon of the 8th day of April, A. D. 1890,
sealed proposals will be received by the Board of
Trustees of the City of San Bernardino, Cal., for fur-
nishing the following supplies, and do the following
work for said city:627,035 tons of cast-iron pipe.
114,155 feet of Kalamain converse look-joint pipe.
98,735 feet of lap-welded wrought-iron screw-pipe.
15,400 feet of riveted steel pipe.
Also, for trenching, laying and covering the 15,400
feet of steel pipe; 70 double-nozzle fire-hydrants; 90
gates; 163 special castings.All the above supplies and work will be furnished
in accordance with specifications, to be had on ap-
plication to F. C. Finkle, Engineer and Superintendent
of Water-Works, Room 16, City-Hall, San Bernardino,
Cal.Bids for each kind of pipe to be separate, and to be
delivered to the Clerk of said Board.Bids must be made out on the blanks accompan-
ing the specifications.Each bid must be accompanied by a certified check
on a responsible bank, amounting to at least ten per
cent of the amount of said bid.The Board reserves the right to reject any or all
bids.

By order of the Board.

B. B. HARRIS,
Clerk of the Board.

744

COL. GEORGE E. WAR-
ING, JR., C. E. etc., in his
recent work on Sewerage and
Land Drainage, in speaking of
traps liable to siphonage, says:
"the best remedy would be to
supply the defective traps at
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Mercury Seal-Trap Vent, a per-
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STONE, SAND AND CEMENT.

[At Buffalo, N. Y.]

U. S. ENGINEER OFFICE,

BUFFALO, N. Y., March 11, 1890.

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this office until 11 A. M., Eastern standard time,
April 1, 1890, for furnishing the above-mentioned
materials.Preference will be given to articles of domestic
manufacture, conditions of quality and price (import
duties included) being equal.Specifications, blank forms for proposals and all
necessary information can be had from the under-
signed.

F. A. MAHAN,

Captain of Engineers.

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[At Bristol, Tenn.]

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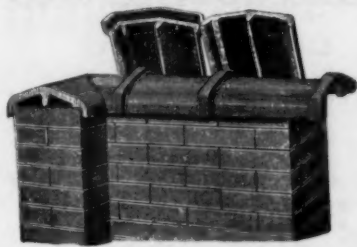
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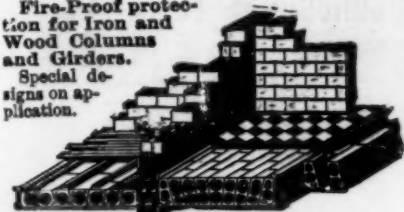


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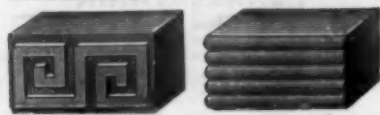
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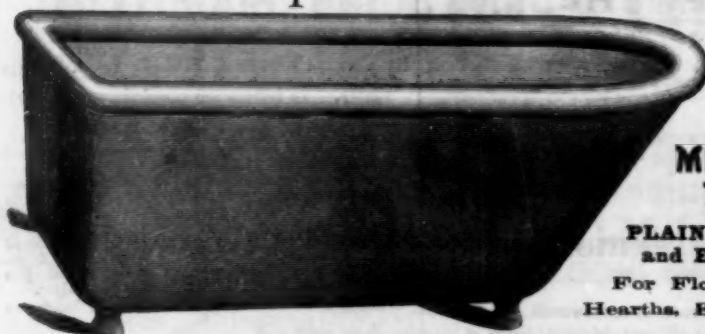
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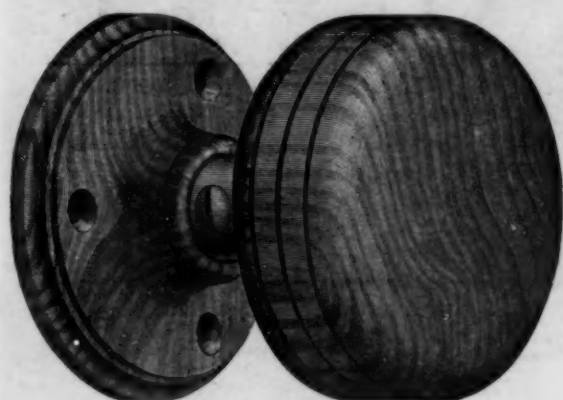
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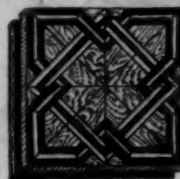
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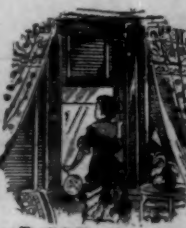
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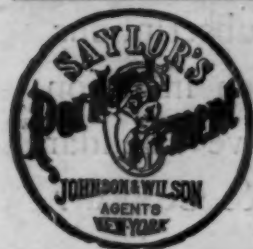
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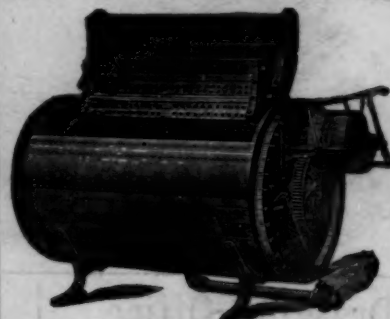
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