

THE AMERICAN ARCHITECT

VOL. CII.

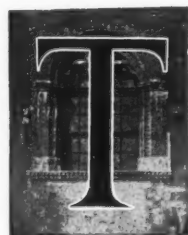
WEDNESDAY, DECEMBER 25, 1912

No. 1931

FORTY-SIXTH ANNUAL CONVENTION OF THE AMERICAN INSTITUTE OF ARCHITECTS

HELD AT WASHINGTON, D. C., DECEMBER 10, 11 AND 12, 1912

FIRST DAY'S PROCEEDINGS



HE forty-sixth annual convention of the American Institute of Architects was called to order by President Walter Cook, in the New Willard Hotel, at ten o'clock.

The delegates to the convention were welcomed to the capital city by Colonel W. V. Judson, Engineer Commissioner of the District of Columbia.

Colonel Judson spoke with much cordiality, and evinced a keen perception of architecture and its importance in the upbuilding of the country and its close association with the engineering problems that are today being brought to successful conclusion. Colonel Judson also made a strong appeal to the Institute for prompt action in the matter of the Lincoln Memorial.

Further reference to these remarks will be made in a succeeding issue.

The address of the President, Mr. Walter Cook, was received with many marks of approval by the delegates. The past year has been one of large achievement by committees of the Institute. These activities were referred to by President Cook, who directed attention to the closer spirit of co-operation now existing between architects and the public generally, and a wider appreciation of the problems that confront the man in practice.

President Cook's address was in detail as follows:

PRESIDENT'S ADDRESS

Gentlemen:

The year 1912 has been one of many Conventions, whose exploits have been duly celebrated in the public press and elsewhere; and we are going to add one more to

their number. I trust that the doubtful beneficent results of those already held may be conspicuous by their absence—that we shall avoid all acrimonious discussions as to the credentials of our delegates, and that our differences of opinion, if there be any, may be expressed without the use of opprobrious epithets or atrocious accusations.

And as I look about me, I feel that there is little danger. The one thing that stands out in the history of the Institute is the constantly increasing interest of our members in its aims and its aspirations, and the constantly increasing unity in their views as to the best means of attaining these. Our one purpose is the encouragement of the best architecture, in every sense of the word; any advantage to the architects themselves—the improvement of their position in the community or of their material interests—follows as a matter of course; but this is not first in our minds. During the year which is nearly at an end a great deal has been accomplished, especially in furthering that education of the public toward a correct understanding of what we seek, which is our first and most pressing necessity.

If the results of these efforts of ours have come but slowly it is perhaps in part our own fault; for astonishing as it may seem, this public, or the best part of it, has listened to us with interest and good will, and in the great majority of instances has recognized the force of our arguments and the truth of what we have advanced. One example of this, and the most important one perhaps, has been the conduct of the Competition for the Capitol of the State of Missouri. Beginning as it did with certain conditions laid aside, which were, as we believe, not for the best interest of the State, the Capitol Commission invited a delegation of the Institute, which had called its attention to these conditions, to visit them and confer with them. This conference was a most satisfactory one, and the result was a competition for this great public building conducted in a manner which was eminently judicious, and which bids fair to add one more to our great and beautiful monuments. And recently the Capitol Board has sent its thanks to the Committee of the Institute whose members advised with them. Certainly all our thanks are due to these enlightened gentlemen for the aid they have given to good art, and for the example they furnished to our whole country. And this is only one—the most prominent it is true—of many such incidents in affairs great and small, which go to prove that after all our countrymen are broadminded and patriotic and only need to have the truth shown them.

THE AMERICAN ARCHITECT

Unfortunately we have to record one experience of a quite different nature. The Tarsney Act, authorizing the designing of our government buildings by architects, has been repealed; and for the moment these great monuments of our country have been handed over to an official factory, to be turned out by the yard; for whatever the talent and the ability of the Supervising Architect of the Treasury, this is what must of necessity result. Nothing of this sort has ever happened in any civilized country, so far as I know, unless our own unhappy experiment of years ago may be considered an exception. It is quite unnecessary for me to speak of the so-called arguments which were employed in urging this repeal—the plea of an economy which has we believe been shown not to exist, and certain others which displayed such an almost ludicrous ignorance of the whole subject, that we can but shrug our shoulders and say with Figaro, that we hasten to laugh, lest we be obliged to weep. But if any of our special guests of this year—sculptors, painters or authors—are unacquainted with them, we hope they will without delay read certain of the official documents which have been published, for they will find them most delectable. And they will certainly appreciate the logical sequence of this repeal—the establishment shortly of a special department of the government for the manufacture of all sculpture and decorative paintings, followed rapidly by still another, whose duty shall be to turn out all odes, sonnets or lyric verse which may be needed to celebrate the achievements of our enlightened Republic.

However, we are hopeful and optimistic; we have faith in the sober second thoughts of our representatives in Congress; and we look forward with confidence to legislation in the near future which will not simply re-enact the Tarsney Act—for it had its imperfections—but will give us something even better for our country and its art.

All of our experiences, be they victories or defeats, only serve to accentuate the need of which I have already spoken—the need to do all we can to enlighten our fellow-citizens in those matters which are our special province; to awaken their interest and better their understanding of what we do and how we do it. And the Institute during the past year has given its best attention to this subject. It has established its own special organ in the *Journal*; the first number of which is before you, and for which I bespeak your earnest support and its new Committee on Public Information has done good and faithful work, which will I feel assured result in much good.

And here I wish to thank the earnest and hardworking members of the various Committees to whom the affairs of the Institute have been intrusted, and to whom all of us are so much indebted. Nothing has more impressed me than the disinterested devotion to our common cause of so many busy men, who have willingly sacrificed for it their time and given to it their best service. I trust all our members will realize this, and that all will be eager and willing to add their own efforts whenever the occasion demands it. Our growing influence and power in the community rests upon this—that we all work together for the good cause.

As for the architectural work of our country and our time, to which we are devoting our lives, it moves on apace. Every day sees new and important buildings, and we admire and blame and criticize as the mood is upon us. It is very hard for us, who are so much in the thick of the battle, to see clearly and to give any calm-minded judgment upon it as a whole. But within a few months I have had

the good fortune to talk with two fellow-architects of acknowledged eminence from across the water. Their verdict was one of enthusiastic praise for our achievements; and they made comparisons between what we are doing here, and what is done in other countries, which were most flattering for us. So I think we are justified in some self-congratulation.

And now, gentlemen, it only remains for me to welcome our guests who have favored us with their presence, and to declare the Convention open for business.

Following the President's address the usual reports of the Board of Directors and Committees were presented and referred. These reports will appear later in these pages.

The report of the Committee on Public Information, Mr. D. K. Boyd, chairman, was received with much interest. This committee was appointed at the last convention for the purpose of disseminating reliable information as to the aims and actions of the Institute and to correct the erroneous statements in the public press as to matters pertaining to the practice of architecture.

Mr. Arnold W. Brunner, chairman of the Committee on Town Planning, presented the report, in which was embodied suggestions that are valuable and if carried out will tend to not only create greater interest in this important movement, but also lead to a better appreciation as to what should be done and how it should be undertaken.

Many of the suggestions made as to the collection of data and the establishment of a library where all matters pertaining to town planning might be lodged will be practically easy of accomplishment if the proposed Octagon extension is undertaken.

The necessity for comprehensive laws as to town planning as outlined in this report is evident, but the means of their introduction and passage not so easy.

A committee on legislation would seem to be necessary in order to relieve the Board of Directors of some part of the vast amount of detail they now have to care for and which must take valuable time from its members who have already all the cares of their professional work.

Not only matters in the report of the Committee on Town Planning, but the preparation of a draft of an act to replace the Tarsney Act, and other matters of first importance, would fall to the duty of this com-

THE AMERICAN ARCHITECT

mittee on legislation. If its activities could be measured by that of other Institute committees—and no doubt they could—many and important results would accrue.

The presentation of the report of the Standing Committee on Competitions aroused the greatest interest. The report of this Committee, in such part as it is a radical change from the previous rules of practice, will be found elsewhere in this issue.

The afternoon session was devoted to a series of addresses. Mr. Franklin H. Wentworth, Secretary of the National Fire Protective Association, spoke at some length on the proper co-operation between architects and his association. It was in the nature of an eminently practical talk by a practical man to practical men, and was received with approval by the delegates. Addresses of this nature form a valuable part of convention proceedings and serve to present in a common-sense way subjects that are of value to the man in practice.

Recent tendencies in sculpture and the relation of the sculptor's art to buildings and to landscape architecture were discussed and illustrated with lantern slides by Mr. Lorado Taft, Mr. A. Phinnister Proctor and Mr. Herbert Adams. This trio of illustrious sculptors, whose works adorn many public buildings and whose efforts have helped to achieve important artistic results for many of our expositions, held the interest of the delegates throughout the afternoon. Mr. Taft's address and the pictures that he used to illustrate it would seem to support the contention that the art of sculpture in America is like its sister art, architecture, holding its own before all the world in the thoughtfulness of its conception and the high plane of its performance.

It is to be hoped that interest will become aroused in the proposed extension of The Octagon on to the property recently acquired by the Institute. This dignified historical landmark, now owned by the Institute, and around which cluster many associations, is at present inadequate as the headquarters of so important an organization. The acquisition during 1911 of two lots each fifty by one hundred feet on the north of the present Octagon property, permits of an extension that would result in many advantages. The plan as outlined

by Mr. Glenn Brown and Mr. Bedford Brown, shown in this issue, and who were authorized to proceed with preliminary studies, contemplates offices, a meeting hall, exhibition halls and a banqueting room.

Naturally, the architects have carried into their design the motive suggested by the original building.

The plan as published is meeting with approval, and the officers of the Institute who are urging action in the matter believe that with the large rental space available for allied societies and the saving in annual convention expenses, the development would pay a fair rate of interest.

Of course, the necessary funds will have to be raised, and it is therefore probable that it will be some time before the project, if approved, will take tangible form.

This development appears to be very desirable. It is hoped that it will soon be started on the way to ultimate achievement.

The session adjourned at five o'clock to meet at ten A.M., the following day.

THE REPORT (*In Part*) OF THE STANDING COMMITTEE ON COMPETITIONS TO THE FORTY- SIXTH ANNUAL CONVENTION OF THE AMERICAN INSTITUTE OF ARCHITECTS

THE Standing Committee on Competitions has the honor to report to the Institute the continued satisfactory progress of the Institute's campaign against the evils of competition practice. Many factors have so combined as to make the year just passed most notable in the long history of the Institute's efforts to that end.

The reasonableness of the Institute's attitude has been more fully recognized and its authority more generally acknowledged than heretofore. Its policy has been supported by the public and by the press. Members of the Institute throughout the country and its various Committees and Subcommittees on Competitions and on Public Information have co-operated in making its attitude more fully understood, with the result that opposition has greatly diminished.

The New York Subcommittee finds itself somewhat astonished that during the year it has had to deal with but three competitions. It is not sure whether this small number is due to general acquaintance with the requirements of the Institute or to other causes. The Subcommittee thinks it the best policy "to discourage competitions by insisting on the fullest possible protection to the architect, rather than to encourage them by accepting the best terms offered."

THE AMERICAN ARCHITECT

The Philadelphia Subcommittee reports that though building activity has been normal, not a single competition has been conducted within its territory during the year.

The San Francisco Chapter has adopted a resolution that there ought always to be a jury, of which the professional adviser ought never to be a member. The competition for the City Hall has been concluded and the last obstacles to the employment of the successful competitor have been removed.

The report of the Kansas City Chapter, the efficient work of which in connection with the Missouri State Capitol competition should not be forgotten, discloses a state of affairs that should be brought to your attention. The report says: "Aside from the State Capitol competition, there have been few open and above-board competitions in our territory. We have with us, however, the lamentable practice of many of our architects volunteering preliminary sketches on a proposed project. Of course these become competitions under the definition of the Code. This practice is confined to our non-Institute members who outnumber the Institute members of our Chapter five to one. We tried to make the competition code obligatory for the non-Institute members and failed. The practice of holding formal competitions seems to be on the decrease."

That there should be a means by which the non-Institute members of a Chapter find exemption from that part of the Canons of Ethics relating to competitions is somewhat astonishing. If exempt from certain canons, why not from all of them? Can it be that the Institute has affiliated with it Chapter members on whom the canons are not binding and who may, for example, with impunity engage in the building trades or accept commissions from builders or material men? The needed reform is not one that the Standing Committee on Competitions can effect but it should be taken vigorously in hand by the Institute itself.

The Subcommittee for the territory of the newly formed Louisiana Chapter reports one competition in which its efforts were unavailing and another—the important one for the Newcomb College in which its efforts, extending over a year, resulted in the holding of a competition of the highest type.

The report of the Iowa Subcommittee states that no competitions have been held in that territory under the Institute plan and shows a lamentable state of affairs. It states that "the principal effect of the drastic ruling of the Code has been merely the elimination of Institute members from competitions for court-houses, school-houses and other buildings of this character and their award to practitioners who are not, and probably would not be considered eligible to be members of the Institute or of the Chapter. As the average price for services rendered on public buildings in this territory is somewhere between $1\frac{1}{2}$ per cent and $2\frac{1}{2}$ per cent, it will be seen that there is the necessity of a tremendous uplift, either by an educational campaign or by slow process of evolution before the necessity for employing high grade architects is recognized as essential by those having the selection of architects."

The Washington, D. C., Subcommittee reports having approved one competition of the highest type, having advised members of the Chapter that to submit sketches in answer to a certain invitation would be a violation of the Code, with the result that they all abstained from so doing. The Committee adds, "We have no hesitation

in stating that the Code is exercising a good influence in this locality, not only upon the members but also upon the public, in that it tends to increase the standing and prestige of the profession."

The Illinois Subcommittee reports that no competitions of any importance were held during the year but draws attention to the unfortunate conditions existing in the selection of architects for school-houses. The Standing Committee has been much impressed by indications coming from many parts of the country tending to show that school commissioners generally discharge the duty of the selection of an architect in a most ignorant manner. The evils of practice now almost eliminated in competitions for important work still exist in connection with school-houses, chiefly of the smaller sort, but sometimes even in case of large buildings. Substantial improvement is, however, to be noted in certain parts of the country in school-house competitions. The Illinois Subcommittee adds: "We believe that there is a tendency in this territory on the part of the architects to discourage competitions and that this disposition can be traced to the Code and the publicity which it has received. We strongly recommend wider publicity of the Code."

The Indiana Subcommittee has wrestled manfully and with some success against the adverse conditions existing in its territory. After much labor this Committee had a bad program for the important city hospital withdrawn and one much more fully in conformity with the Code substituted. This Subcommittee also draws attention to the attempt of a certain commission to hold a competition for a State educational building costing \$800,000 without promise of employment to any competitor, without an appropriation to erect the building or even to pay the winning architect. The Commissioners, who appeared greatly to desire the Institute's approval, were fully informed why it could not be given. We are told that they will report to the Legislature that the idea of a competition has had to be abandoned on account of the unreasonable action of this Institute, in not approving the program.

The Indiana Subcommittee has also been instrumental in securing the appointment of a professional adviser and what in the end proved to be a good program for a competition for a million-dollar office building. The Indiana Subcommittee adds, "The process of education is necessarily slow in this territory, where the practice has been much abused, but we find conditions generally improving, due chiefly to the attitude of some of our Chapter members in advocating a choice of men from records established rather than from sketches submitted."

The newly formed Wisconsin Chapter has been doing excellent work upon unprepared soil and under adverse conditions. The report says, "Our great task during the past year has been the attempt to regulate competitive work throughout the State. The Institute is looked upon as a trades union, not in every case from ignorance but for political reasons. The public official, with his local small-bore editorial support, helps a friend to secure the job and at the same time gives the public to understand that he has saved their funds from the grasp of the 'architects' trust.'"

The report of the St. Louis Subcommittee, after referring to the competition for the Missouri State Capitol in which members from St. Louis played an active and useful part, says: "During the past year there seems to have been no disposition on the part of Chapter members

THE AMERICAN ARCHITECT

to take part in irregular competitions, and therefore we may assume that the result of the enforcement of the Institute Code has been eminently satisfactory. In this locality there seems, however, to be a marked disposition on the part of well established architects to avoid competitions altogether, many of the more important firms making this a matter of fixed business policy."

The Board of Directors of the Institute has instructed this Committee to make a statement in regard to the case of the Franklin Engraving Co. of Chicago and to indicate the lessons to be drawn from it.

From evidence submitted to the Committee on Practice in the course of its investigation of the case, it appears that the Company retained three architects to make simultaneous sketches for its proposed building, for a fee of three hundred dollars each. There was no professional adviser in charge of the competition and no program other than a statement of requirements. The Subcommittee for the Territory of the Illinois Chapter took the view that this affair came under an exception relative to a "preliminary report" which at that time was included in the Code, since their "ruling was that no competition existed."

The Board of Directors, finding that the exception in question was likely to be seized upon as a cloak for improper competitions, promptly rescinded it.

The Committee on Practice in reporting to the Board upon this case offered the following comment which the Board draws to the attention of members of the Institute: "Your Committee believes that the spirit of the Code is and should be superior to the strict letter, and that where doubt exists as to the literal interpretation of any paragraph, that paragraph should be interpreted in the light of the spirit of the Code as a whole.

"Viewed in that light, the paragraph under 'Sundry Exceptions' which relates to the preliminary report upon the development of a property should not in our opinion have been interpreted as permitting two or more members of the Institute to prepare plans for the same project at the same time, under conditions which violate the spirit of every paragraph of the Code from beginning to end."

The Board is deeply impressed with the grave importance of the work of the Subcommittees on Competitions and of the vital necessity of their discharging their duties under the Code in the spirit in which it is written.

The competition for a Young Woman's Christian Association building at Harrisburg, Pa., is interesting as presenting a case in which the owner appealed to the Standing Committee from a decision of a subcommittee. A member of the Institute held that the owner was indebted to him for work previously performed in preparing drawings and specifications. The Subcommittee was informed that the owner had made a formal tender to arbitrate the claim but that the architect had not accepted the offer. The Subcommittee stated that the program of competition was in all ways in accord with the code but that it would not give approval until the claimant architect had been paid. From this decision the owner appealed. He proved his offer of arbitration and the architect's failure to accept it. The Standing Committee sustained the appeal and ordered the program approved.

Reference should also be made to the fine conduct of competitors invited to take part in the Providence, R. I., Armory competition and to the spirited attitude of members of the Rhode Island Chapter. The program was of the lowest type. It was freely stated that the competition was being used as a cloak for the appointment of a

certain person. Architects invited to compete were prompt with indignant refusals. The newspapers not only published accounts of the meetings of the Commissioners which showed the most singular proceedings, but they urged the Commissioners to adopt the orderly methods of the Institute. In the end, their methods thoroughly exposed and no architect of reputation consenting to take part in it, the Commissioners abandoned the competition and made a direct appointment of the person to whom rumor had pointed as the predestined winner. The Chapter published a dignified and admirable explanation of the Institute's methods.

The most important competition with which the Standing Committee on Competitions has had to deal during the year was that for the Missouri State Capitol. It was a crucial test of the principles and the authority of the Institute.

Through the efforts of members of the Chapter in Missouri, the Commissioners had been made aware of the Institute's Code, and had retained a professional adviser, but when the program appeared it had grave defects, among which were the following:

1. The competition was open to all but, before the award would be made, the name of the supposed winner was to be disclosed.
2. The right to reject any or all plans submitted was reserved.
3. Almost all of the statements relative to payments and practice were at variance with the Institute's Schedule.

The program was transmitted to the Standing Committee and a lengthy correspondence with the State Capitol Commissioners followed in which they were informed of all the changes that would have to be made if the Institute's approval were to be obtained. The invited competitors refused to have anything to do with the competition unless the program were put on a high plane. The local Chapters came out strongly against the program. The press supported the architects. The Commissioners, finding that they could make no progress without the Institute's approval, invited the Standing Committee to meet them in St. Louis. It was not, however, until they gave assurances that they would make a sincere effort to bring their program into harmony with the Institute's principles that the Committee consented to go. Four of its members met the Commissioners and, after meetings lasting over two days, the Commissioners were shown ways by which they could legally bring their program into such condition that it could receive the Institute's approval, which was finally given.

The act appointing the Commission was drawn in ignorance of proper practice and imposed limitations which it required much ingenuity to interpret into action acceptable to the Institute. The Commissioners, when at last convinced that the form and terms of competition recommended by the Committee were in consonance with law and in the interest of the State, acceded to them, and upon the close of the competition, adopted resolutions expressing the greatest appreciation of the Standing Committee's action and thanking it for advice and assistance in the conduct of the competition.

The chairman of the Standing Committee on Competitions has received from the chairman of the Missouri State Capitol Commissioners a letter reading as follows:

"We have finally concluded all arrangements in connection with architectural work upon the State Capitol. We have selected our architects and the plan in strict accord-

THE AMERICAN ARCHITECT

ance with the rules of the American Institute of Architects. We are fully satisfied with the result and we wish to acknowledge the friendly assistance which you and your associates have rendered us in this matter.

"As a matter of history, as well as of justice to all concerned, we desire to have it known to the architects of the country that our advisory architect, Mr. L. Baylor Pendleton, has, from the beginning of his association with us, striven earnestly to have the competition held in strict accordance with the rules of your Institute. In fact, the first program issued conformed to the spirit of the rules of the Institute, but it was rejected by the Attorney General, and the result was that we were compelled to issue a program which was not satisfactory either to us or to the Institute.

"In finally evolving a program that was acceptable to all concerned, and in which you so kindly aided us, Mr. Pendleton was in full sympathy with the rules of the Institute and has maintained an unvarying loyalty to that organization up to the time of the final award.

"To him and to your Committee, more than any others, we feel is due the fact that the problem has been so happily solved. We wish to give honor where honor is due.

"It is useless for us to say that the members of the State Capitol Commission Board are thorough converts to the methods and rules adopted by the American Institute of Architects for architectural competitions."

In concluding this review of cases, it is highly gratifying to note that the most important competition of the year, that for the new Court House in New York, involving an expenditure of perhaps \$20,000,000, is under the conduct of your president, Mr. Walter Cook, who acts not merely as professional adviser but as consulting architect to the Court House Board.

The Standing Committee offers for adoption the following resolutions:

Resolved, first, that the Forty-sixth Annual Convention of the American Institute of Architects reaffirms the principles heretofore adopted by the Institute in its efforts

to abate the evils of competition as expressed in the "Circular of Advice" and approves the course of the Board of Directors in enforcing these principles.

Resolved, second, that the "Circular of Advice Relative to Principles of Professional Practice" be amended as follows:

ARTICLE 14. Change the first sentence to read: "An architect should not take part in a competition as a competitor or juror unless the competition is to be conducted according to the best practice and usage of the profession, as evidenced by its having received the approval of the Institute, nor should he continue to act as professional adviser after it has been determined that the program cannot be so drawn as to receive such approval. *When an architect has been authorized to submit sketches for a given project, no other architect should submit sketches for it until the owner has taken definite action on the first sketches*, since, as far as the second architect is concerned, a competition is thus established."

Resolved, third, that the "Canons of Ethics" be amended as follows:

ARTICLE 5. Change the article to read: "5. To take part in any competition which has not received the approval of the Institute or to continue to act as professional adviser after it has been determined that the program cannot be so drawn as to receive such approval.

ARTICLE 11. Add the words "e. g., by submitting sketches for a project for which another architect has been authorized to submit sketches."

Resolved, fourth, that the American Institute of Architects requires its Chapters so to arrange their affairs that the Institute's Canons of Ethics shall be binding upon all their members and that the Board of Directors is hereby empowered and instructed to enforce this order.

Resolved, fifth, that the Board of Directors be and they are hereby instructed to print in the Annuary, under the heading of each Chapter, an exact statement of the limits of its territory.

REPORT OF COMMITTEE ON TOWN PLANNING

It is gratifying to note the continued interest and the growing appreciation of the value of town planning. During the past year many cities in the United States and Canada have turned their attention to the subject, some are taking active steps to improve their water fronts, solve the railroad problem or to plan civic centers. Others are turning their attention to suburban development and in a few more ambitious instances comprehensive plans are being prepared for the growth and development of the entire city.

The activity in the various societies and civic bodies continues and lectures on city planning and meetings devoted to the subject are on the increase. The result of these activities has been to interest the city authorities themselves and it is encouraging to note that in numerous cases the local city governments have espoused the idea, and recognizing the value of technical advice have appointed expert advisers to guide them in the development of their cities.

It was the thought of your Committee that we could perform a service to the members of the A. I. A. by sug-

gesting some general ideas that might serve as a guide for municipalities in the preparation of their plans and in the adoption of the necessary legislation. The authorities as a rule are somewhat at a loss to know how to proceed and the first steps are the most difficult.

Much interest has been shown in the Town Planning Act now in force in England and it seemed possible that this act or a modification of it might serve as a basis for a similar law that will be suitable to American cities. After consideration, however, this did not appear feasible. The English Town Planning law provides for a central body possessing absolute power who can criticize and control the plans of all English cities which must be presented to it for its approval. This does not appear to be possible in our country. The laws in each state are different and each Town Planning Act would necessarily have to be drawn to conform to the state law. Lately a very strong movement in favor of what is called "home rule" for cities has manifested itself so that a general state law governing the powers of a city to make its plans would,

(Continued on page 228)

THE AMERICAN ARCHITECT

Founded 1876

PUBLISHED EVERY WEDNESDAY BY

THE AMERICAN ARCHITECT (INC.)

No. 50 Union Square, New York
(Fourth Avenue and 17th Street)

G. E. SLY, PRESIDENT

E. J. ROSENCRANS, SECRETARY AND TREASURER

Address all communications to "THE AMERICAN ARCHITECT"

SUBSCRIBERS' RATES:

In the United States and Possessions (Porto Rico Hawaii,
Philippine Islands and Canal Zone),
Mexico and Cuba

TEN DOLLARS PER YEAR, POSTAGE PAID
ALL OTHER COUNTRIES . . . \$12.00 PER YEAR
SINGLE COPIES (Regular Issues), 25 CENTS

Entered at the Post-office, New York, as Second-class Matter

VOL. CII DECEMBER 25, 1912 No. 1931

AMERICAN INSTITUTE CONVENTION

THAT the Forty-Sixth Annual Convention of the American Institute of Architects, recently held in Washington, D. C., was productive of much good is evident from a perusal of a report of the proceedings. But to anyone present, the evidence given at this Convention, that the American Institute has developed from an organization with undoubted high ideals but low vitality to one with purpose no less lofty but also possessed with enthusiasm and energy sufficient to undertake and accomplish results considered impossible of achievement a few years ago, was even more impressive than the record of actual accomplishment presented. Unanimity of feeling that in itself insures efficiency of action in any organization was a noticeable feature of the proceedings of this meeting, whereas a marked divergence of opinion has sometimes characterized the deliberations of preceding gatherings.

President Walter Cook, during the course of his address, took occasion to call particular attention to this new life and interest shown by members in the aims and aspirations of the Institute. Undoubtedly, it affords the largest degree of justification for confidence in the future of this body and furnishes basis for hope that the architecture of America will ere long receive that meas-

ure of public regard and consideration to which its importance entitles it.

The Institute now takes its place as one of the great factors in the development of this country. In lending its influence to the larger movements, such as town planning, housing of the poor, proper character of Government buildings, wise utilization of artistic opportunities, and other problems that are occupying the attention of thoughtful people, and in offering the trained assistance of its members in their solution, it is occupying a higher plane and directing operations in a broader field of usefulness than ever before.

A Convention is necessarily concerned with the problems and difficulties encountered by the Institute membership quite as much as with recording achievements and reporting progress made. The fact remains that the securing of commissions as well as their execution occupies much of the time and intelligence of professional men. Evidence of the importance of this phase of professional practice is presented in a long and carefully prepared report of the Committee on Competitions. This report probably constitutes the most voluminous single document submitted to the Convention. It covers every detail of competitions and undertakes to clear up the various points which experience has shown are ambiguous in the Competitions Code in force up to the present time. It also offers additional features designed to prevent misunderstanding or possible misinterpretation. The wisdom of these added features is apparent, and while it is realized that conditions of practice vary to an almost unbelievable extent in different parts of the United States, the amended code is a document the entire profession might study and adopt with profit, to practitioner and owner alike. Considering the progress that has been made in the education of both the profession and public in the matter of competitions during the past year, such a fortunate consummation does not seem beyond the possibility of fulfillment within a measurable period of time.

Much of the general progress made is undoubtedly due to the fact that through the Committee on Public Information the public has been furnished with reliable and authoritative information on matters

THE AMERICAN ARCHITECT

pertaining to architecture. The medium of the press has been skillfully employed in this work. Errors of statement have been corrected and the architect's function and work have been explained, resulting in a greater appreciation and understanding on the part of the public.

The Committee on Education has performed notable work, and progress of a kind which means improvement in quality, as well as advance in position, has been greater during the past twelve months than ever before.

A temporary set-back received by the cause of good architecture is recorded in the repeal of the Tarsney Act. It seems that while this action is undoubtedly a retrograde movement, it may furnish the incentive for conducting an educational campaign, which if sufficiently thorough will in all probability result in an act even broad-

er than the Tarsney Act and one that will not only correct its defects but supply many of its deficiencies. It is a curious quality of the human mind that prevents it in many cases from recognizing or appreciating conditions often of great value, until they have passed, and it is safe to predict that the public will strongly favor any proposed legislation that promises to improve the architecture of Federal buildings, after a short experience with the politically appointed architect in charge, as seems to be the plan of those who were instrumental in securing the repeal of the Tarsney Act.

Taken all in all, the record of accomplishment of this representative organization of architects in this country, during the past year, is one of which the entire profession has reason to be proud. Conditions of practice both for Institute and non-Institute members have been materially improved.

REPORT OF THE COMMITTEE ON TOWN PLANNING

(Continued from page 226)

we think, be very unpopular. The conditions, not only in different states, but in different cities vary so greatly that we believe it would not be well to attempt to frame a general law.

The regulations that obtain in France and in Germany seem entirely inapplicable to our form of government and apparently it is advisable for our cities to make their own rules and regulations.

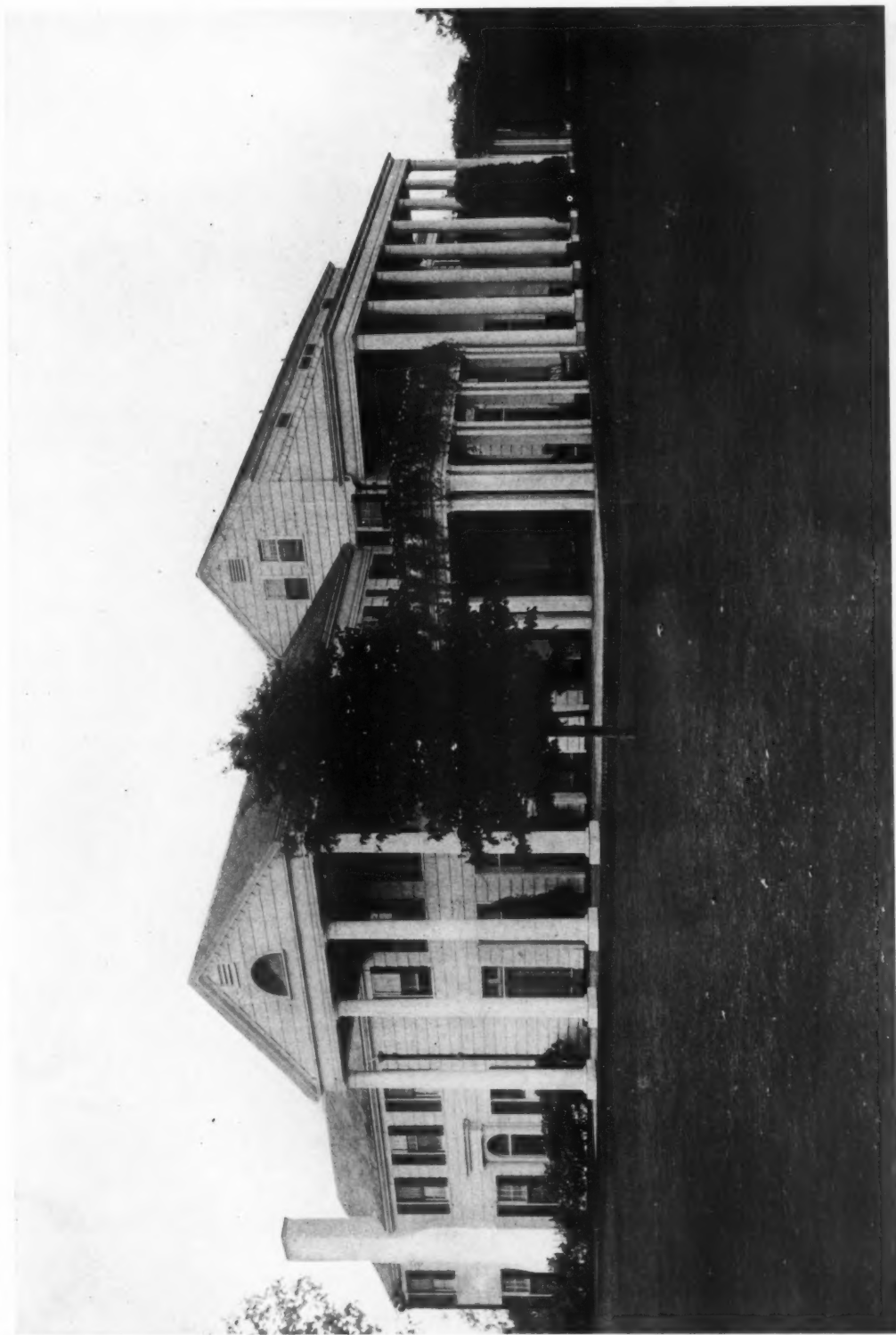
It has been found to be extremely difficult to obtain documents and pictures that relate to city planning and there is a constant demand for such data. We suggest that the A. I. A. enlarge its present collection of lantern slides and procure views of the best examples in Europe and America. Many pictures can be obtained showing suburban development and garden cities, also views of civic centers, street intersections, settings for building,

water fronts, railroad terminals and similar subjects illustrating problems connected with city planning. These might be loaned to members of the Institute to assist them in their work, or copies might be made at a nominal cost and sold to those interested.

It is most desirable that some central library should collect plans of important cities, properly drawn to scale, and there is such detailed information that is constantly required. Undoubtedly the possession of this library would be of great value to our members and it seems to your Committee that the A. I. A. should take immediate steps to collect maps and documents which would form the nucleus of such a library. We believe that the cost might be met by private subscription. The value of this can hardly be overestimated. The cost of additional lantern slides is easily within our means and would be a very great service to members who wish to deliver lectures on city planning, but we strongly urge the foundation of a real reference library on city planning.

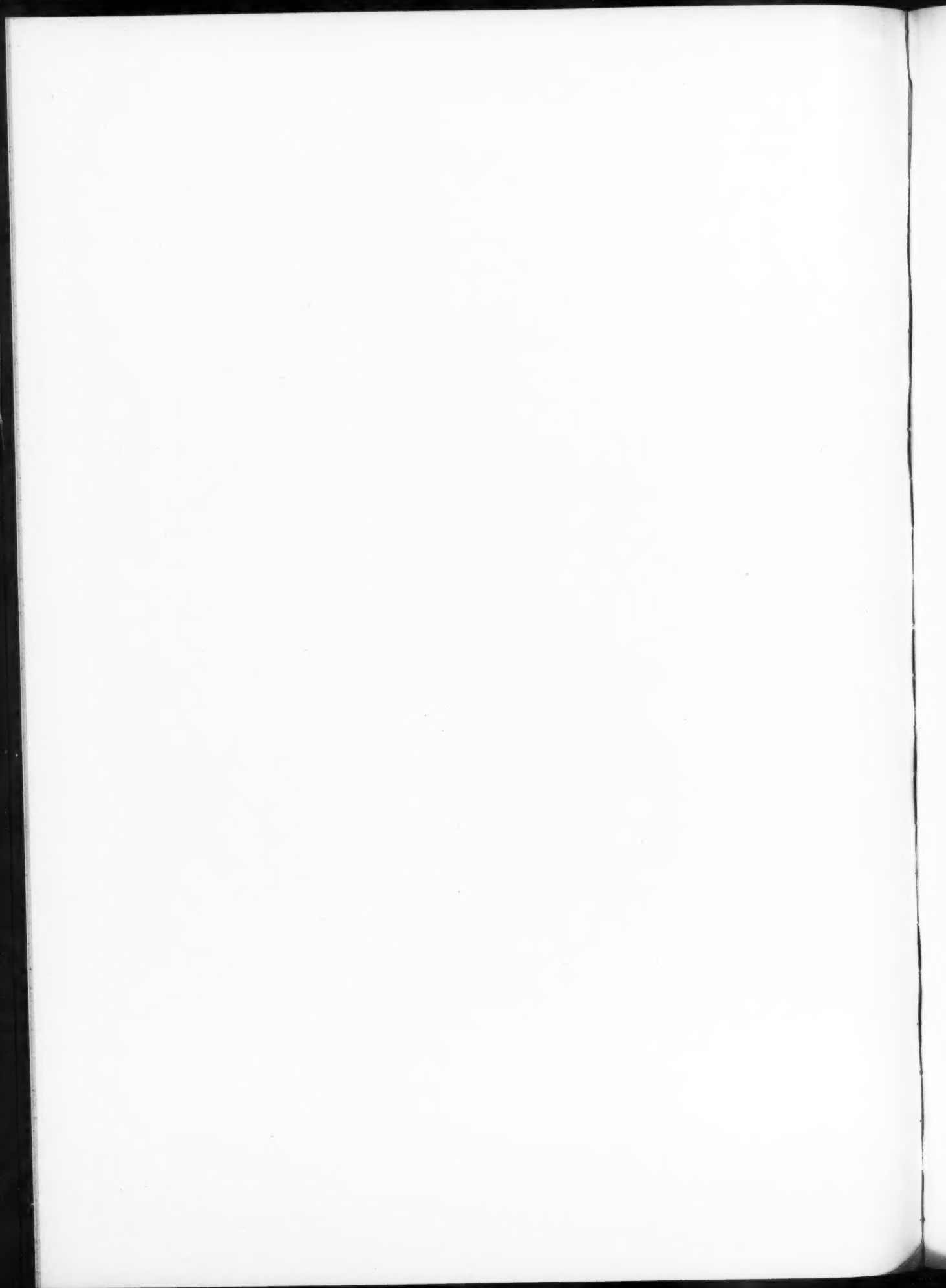
(Signed)

ARNOLD W. BRUNNER,
Chairman.



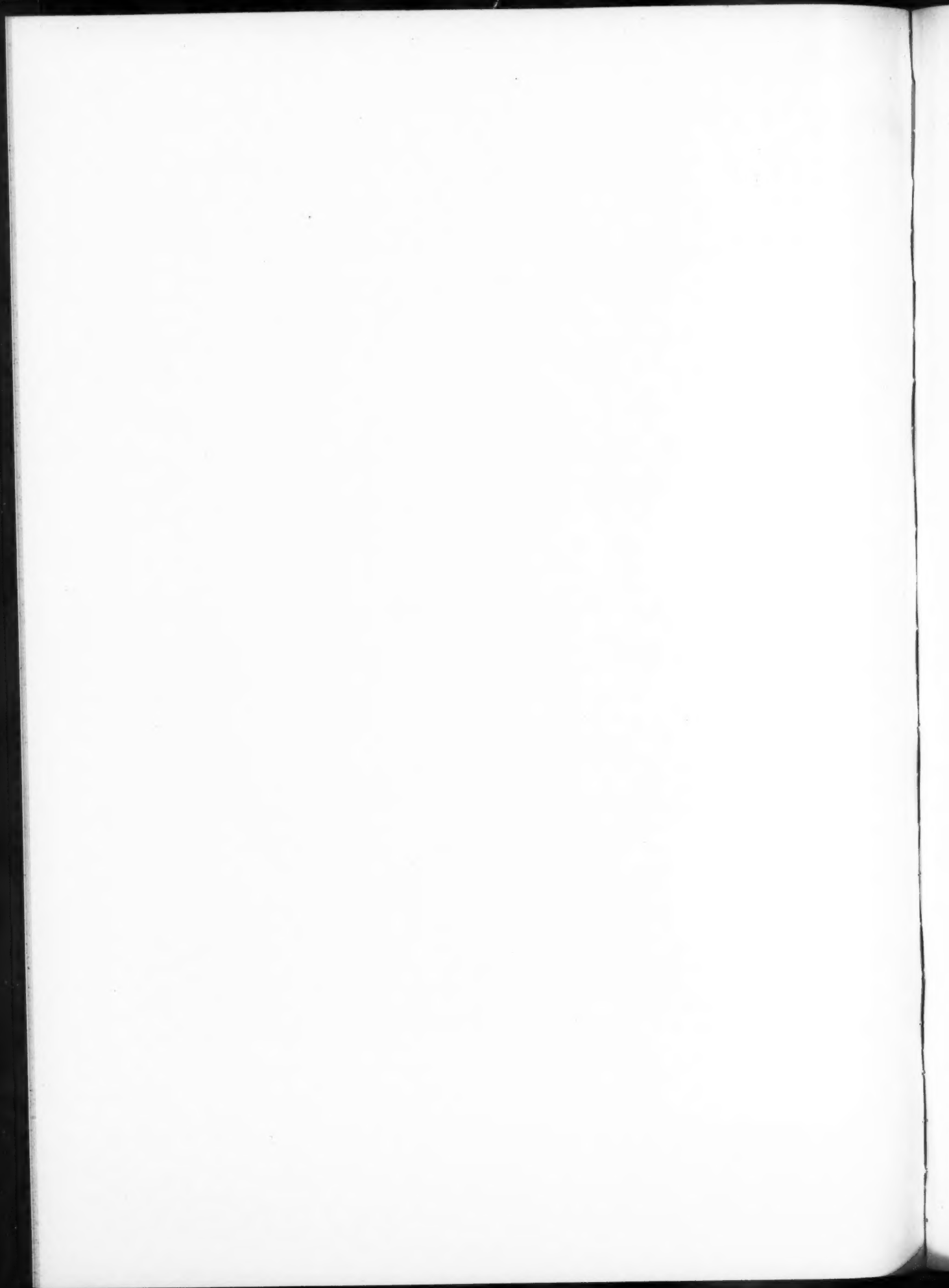
PIPING ROCK CLUB, LOCUST VALLEY, L. I., NEW YORK

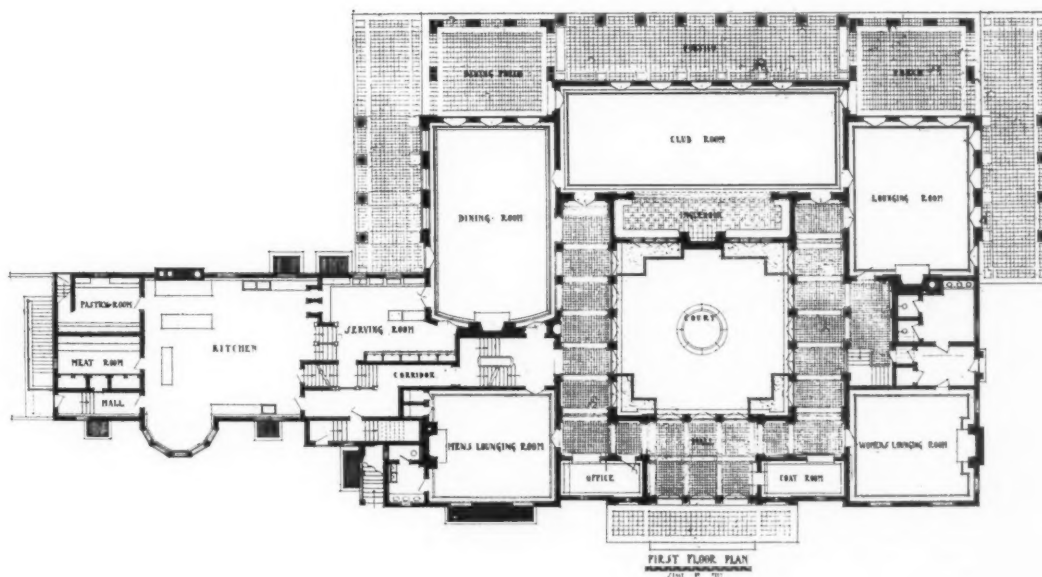
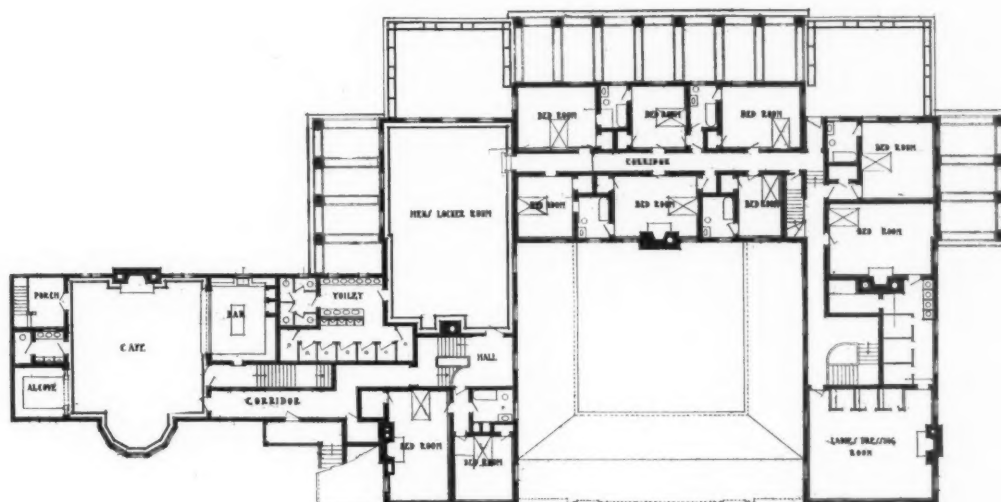
MR. GUY LOWELL, ARCHITECT





PIPING ROCK CLUB, LOCUST VALLEY, L. I., NEW YORK
MR. GUY LOWELL, ARCHITECT



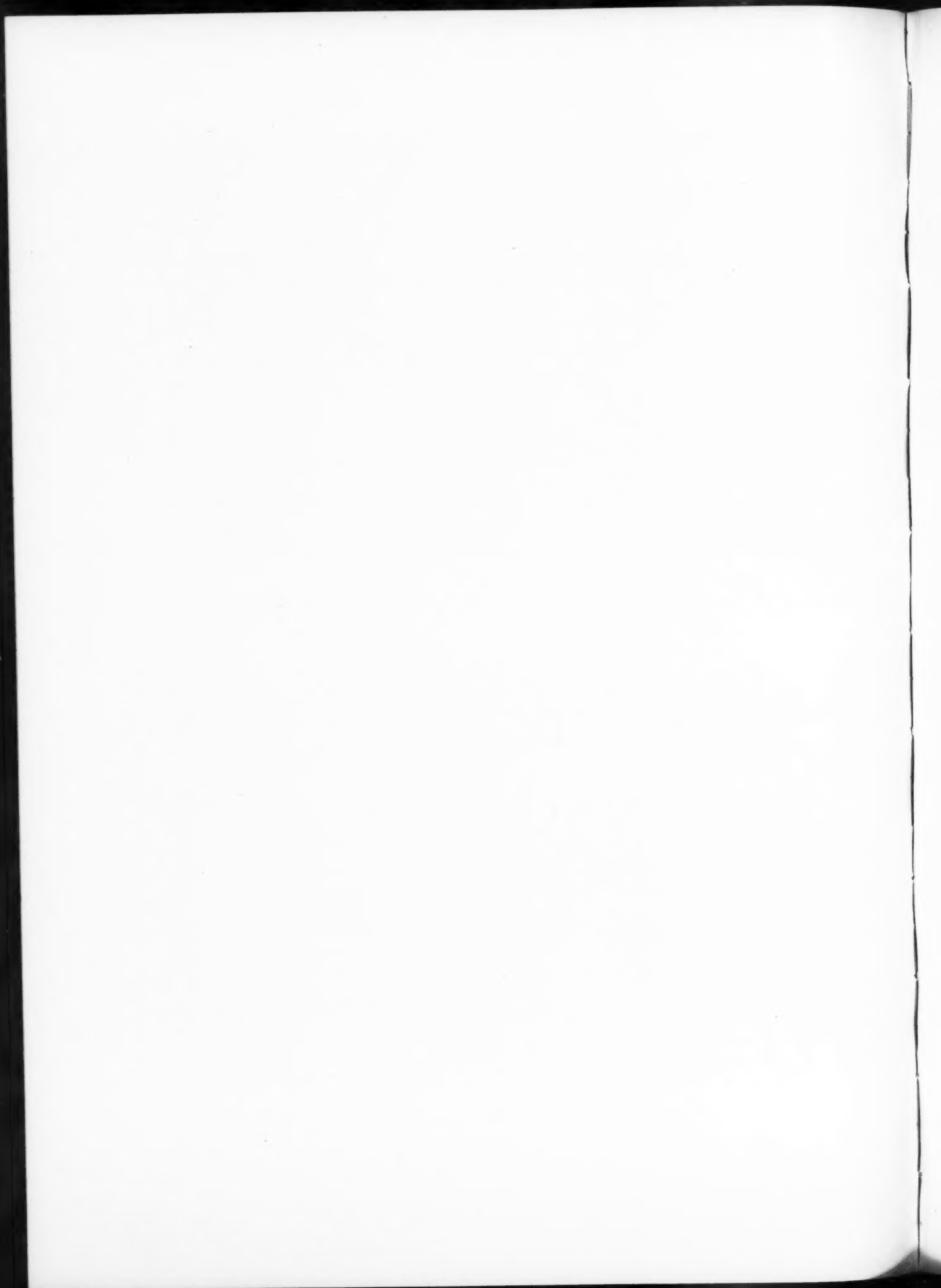


PIPING ROCK CLUB, LOCUST VALLEY, L. I., NEW YORK
MR. GUY LOWELL, ARCHITECT



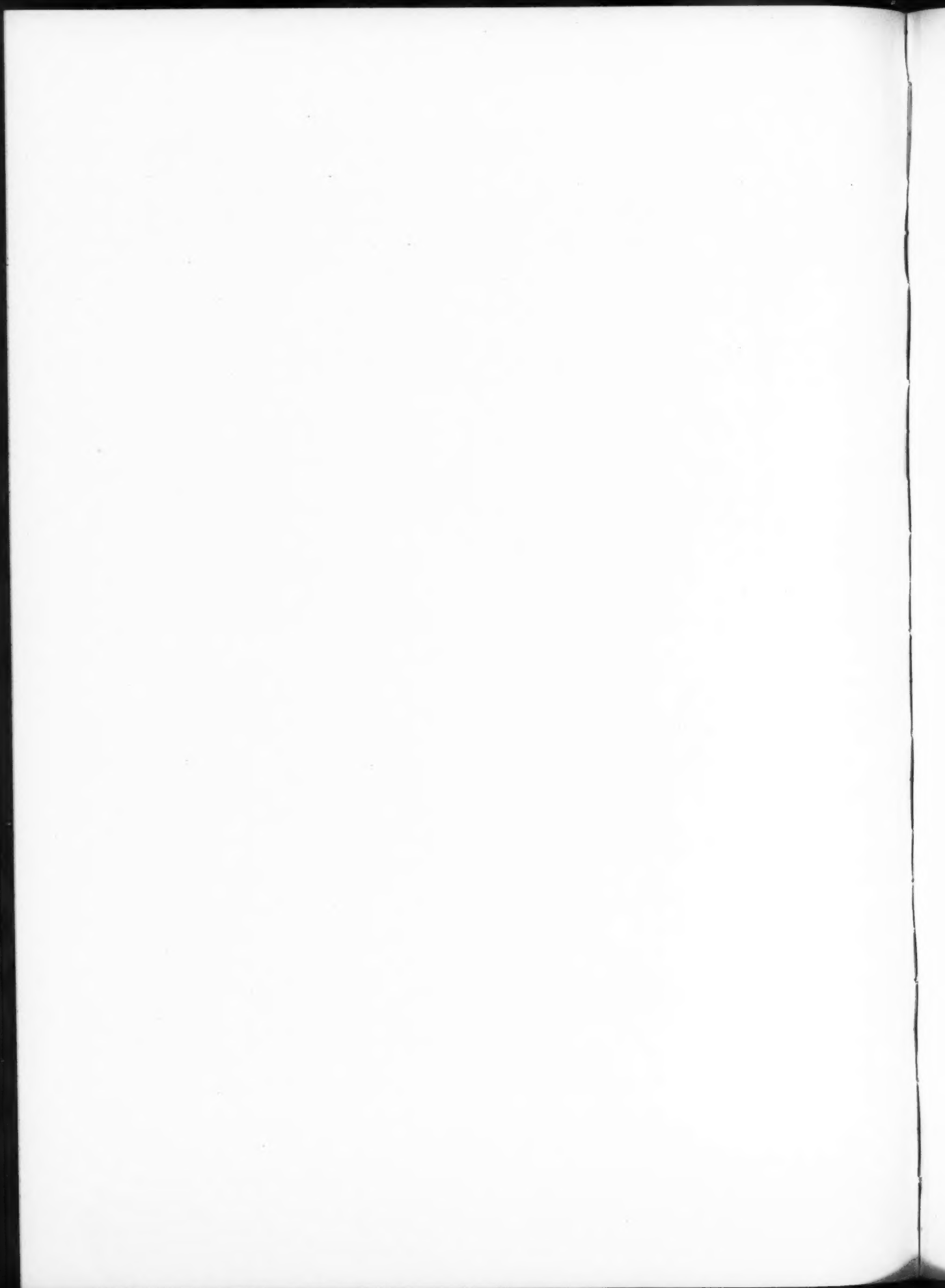
PIPING ROCK CLUB, LOCUST VALLEY, L. I., NEW YORK

MR. GUY LOWELL, ARCHITECT





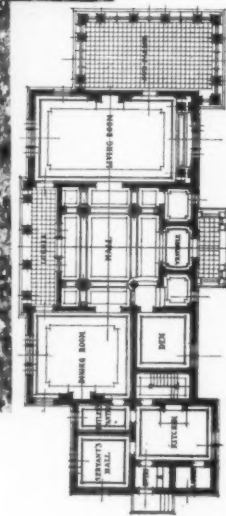
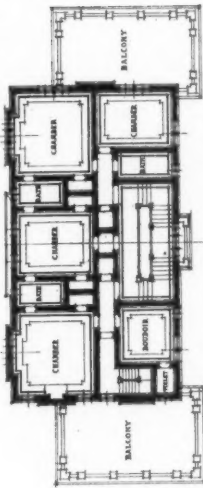
PIPING ROCK CLUB, LOCUST VALLEY, L. I., NEW YORK
MR. GUY LOWELL, ARCHITECT



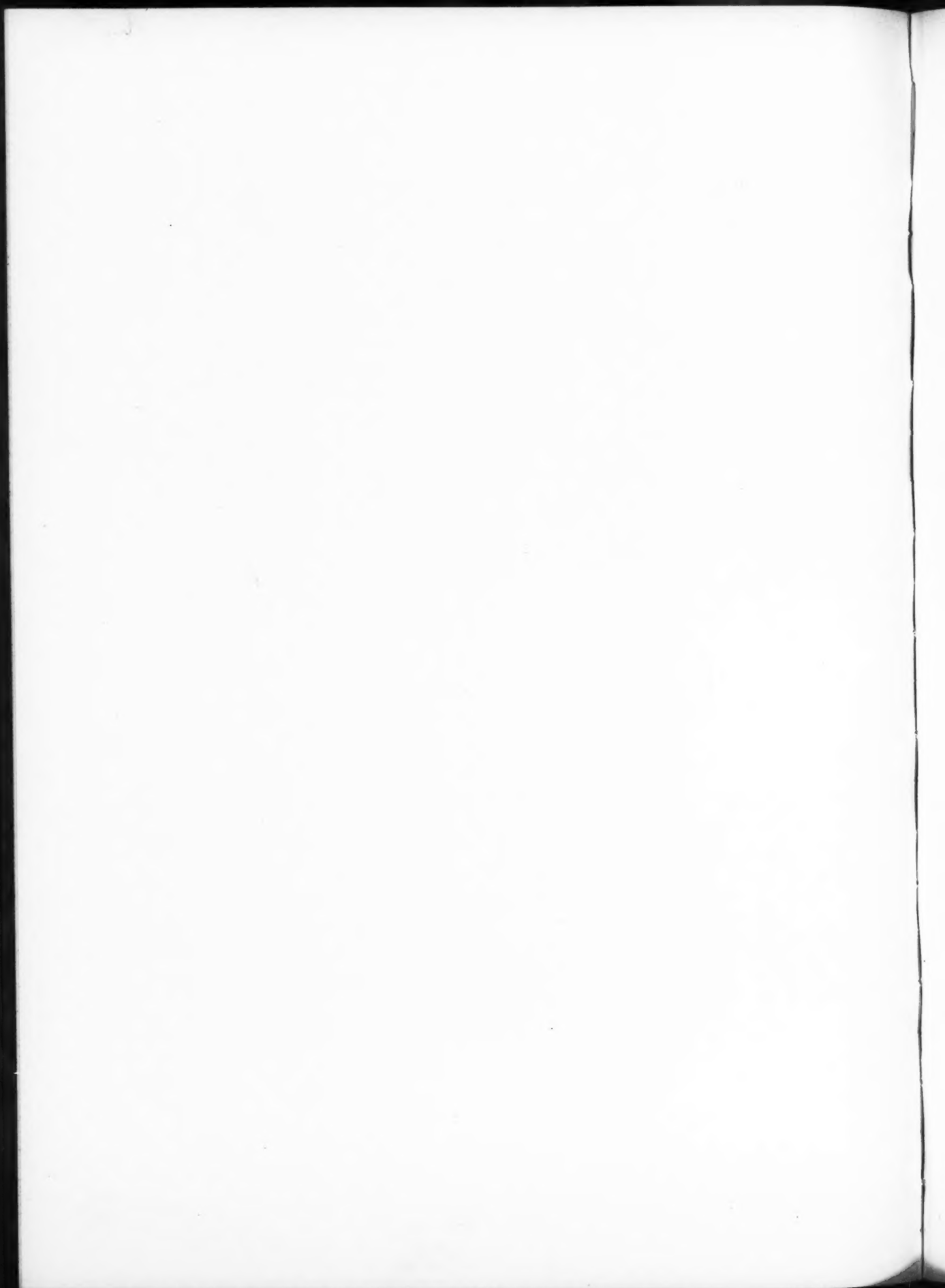
THE AMERICAN ARCHITECT

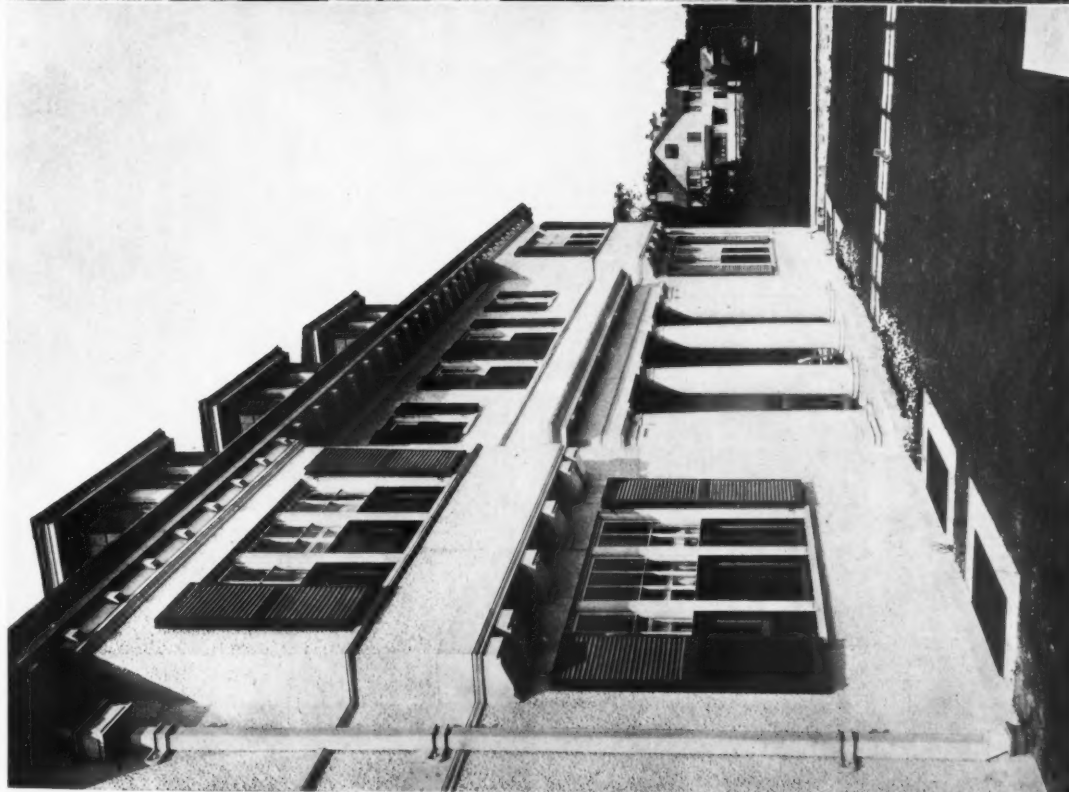
DECEMBER 25, 1912

HOUSE OF MRS. P. H. LOMBARD, CHESTNUT HILL,
BROOKLINE, MASS.

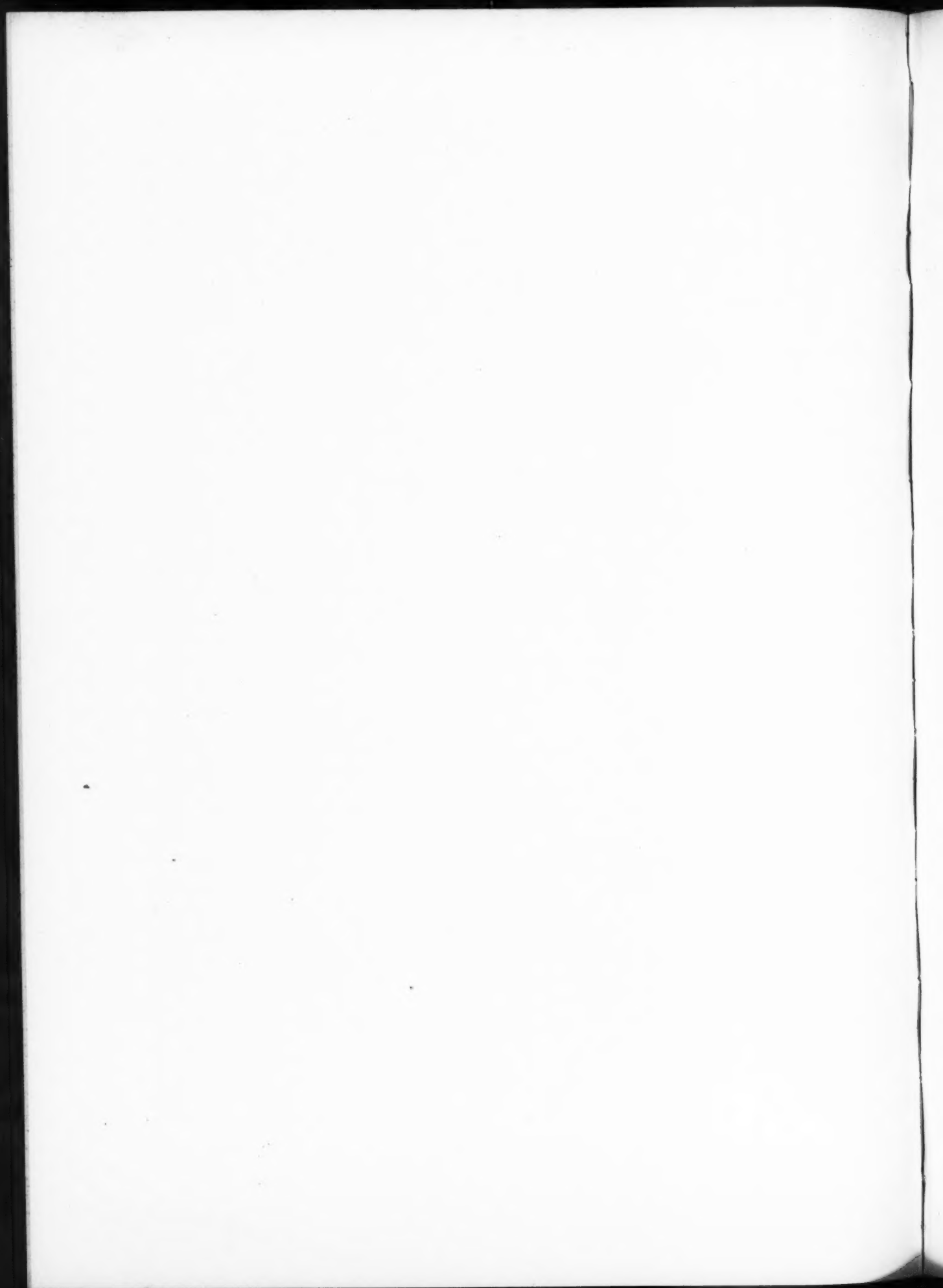


MR. JAMES PURDON, Architect





HOUSE OF MRS. P. H. LOMBARD, CHESTNUT HILL, BROOKLINE, MASS.
MR. JAMES PURDON, ARCHITECT



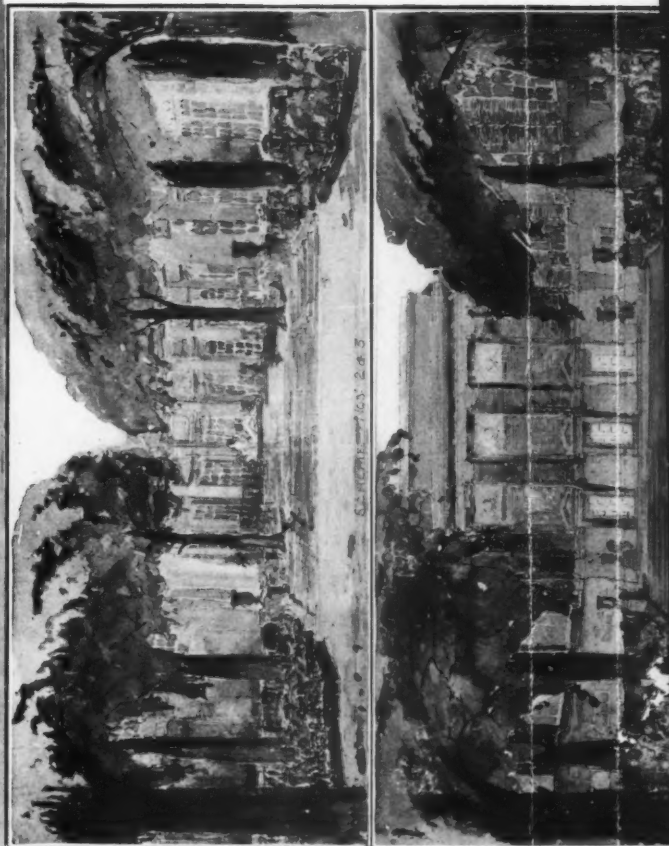
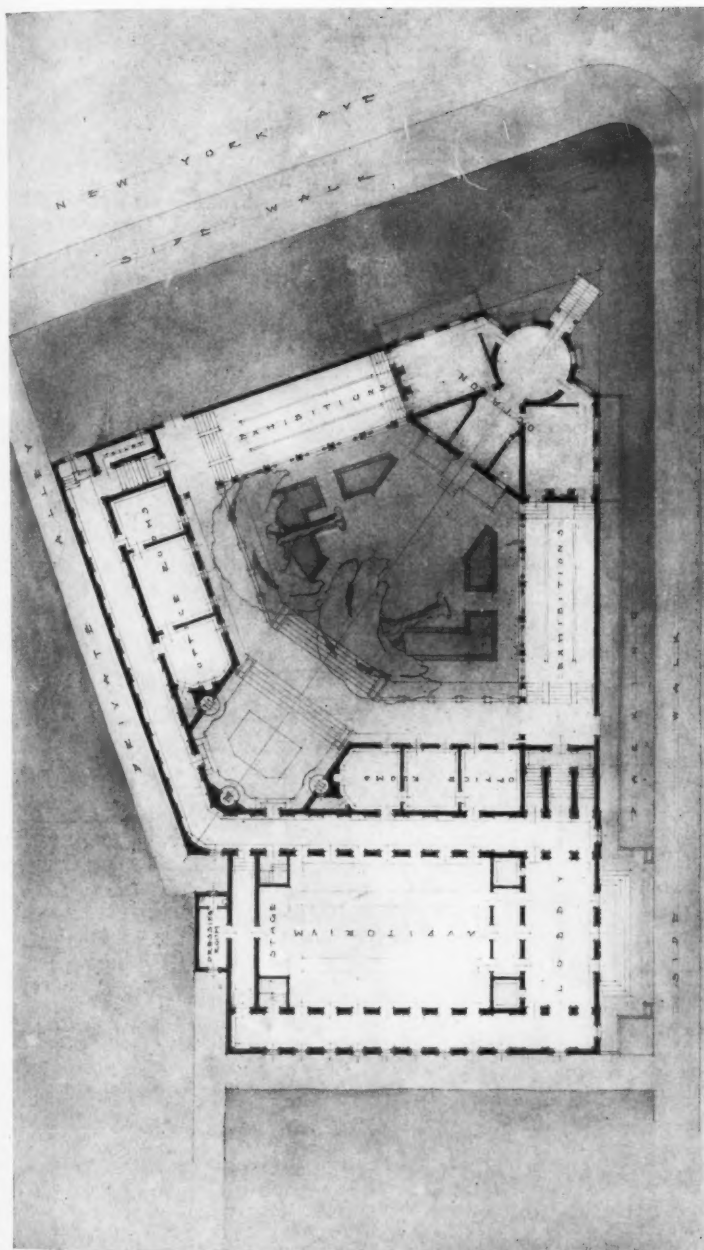


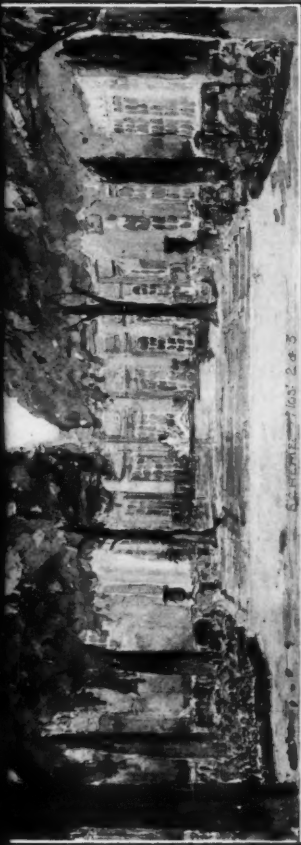
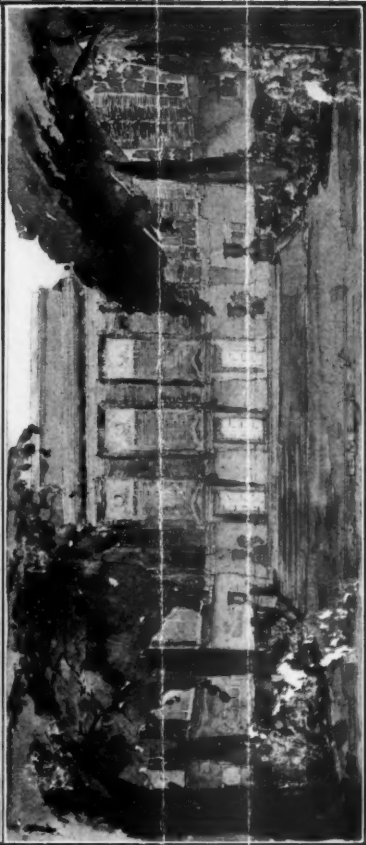
HOUSE OF MRS. P. H. LOMBARD, CHESTNUT HILL, BROOKLINE, MASS.
MR. JAMES PURDON, ARCHITECT

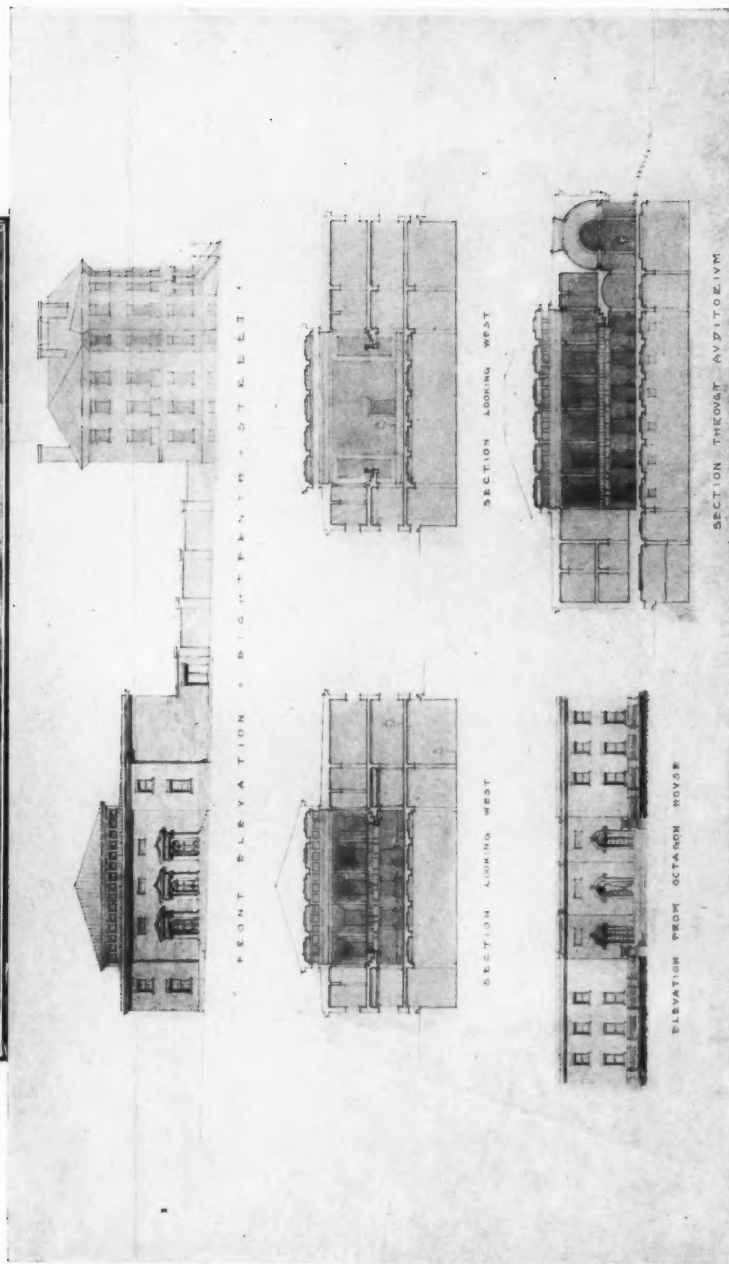
DECEMBER 25, 1912

THE AMERICAN ARCHITECT

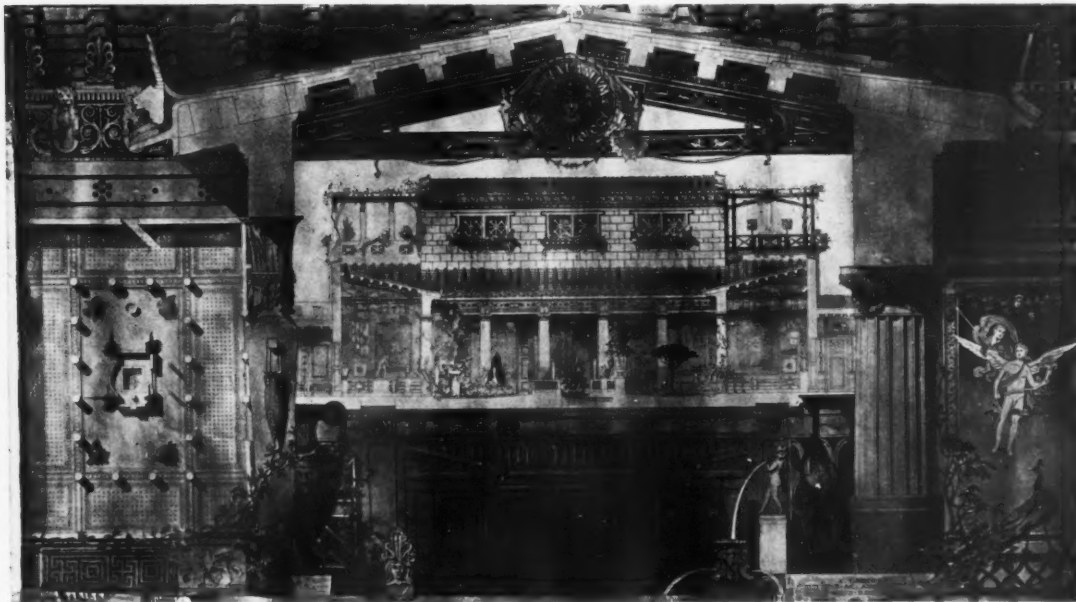
VOL. CXXI, NO. 1







SKETCHES OF OCTAGON HOUSE, AND PLANS OF PROPOSED DEVELOPMENT OF THE PROPERTY OWNED BY
 THE AMERICAN INSTITUTE OF ARCHITECTS, WASHINGTON, D. C.
 MESSRS. GLENN BROWN AND BEDFORD BROWN, ARCHITECTS



A. HARCROSS

THIRD MEDAL

ATELIER BAUR, S. F. A. C.

CLASS A AND B, ARCHAEOLOGY, I PROJET (Problem In Design)
A COURTYARD IN THE POMPEIAN STYLE



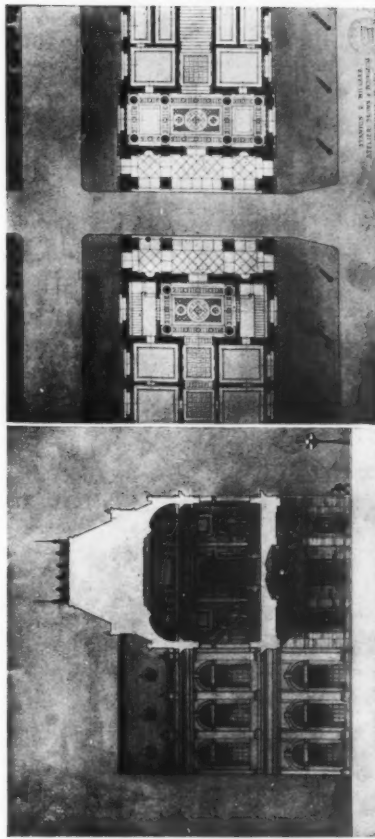
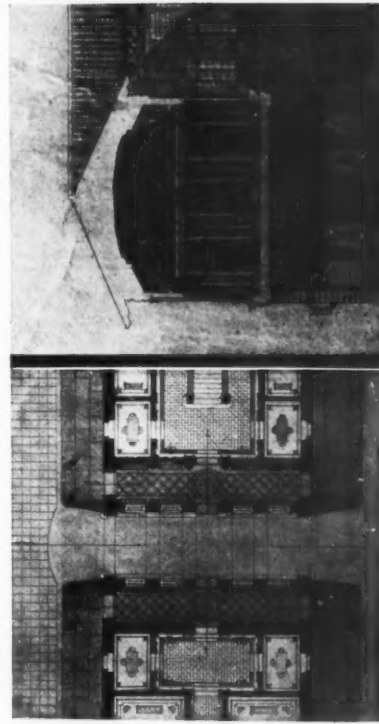
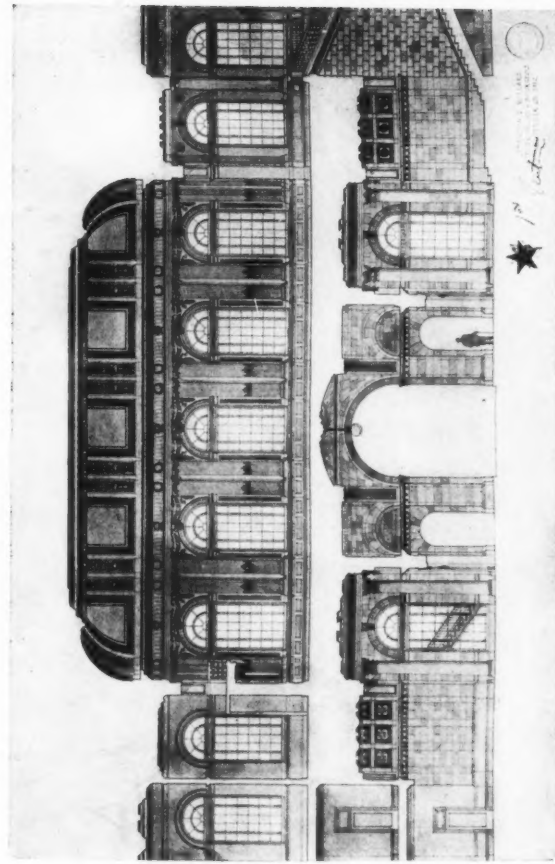
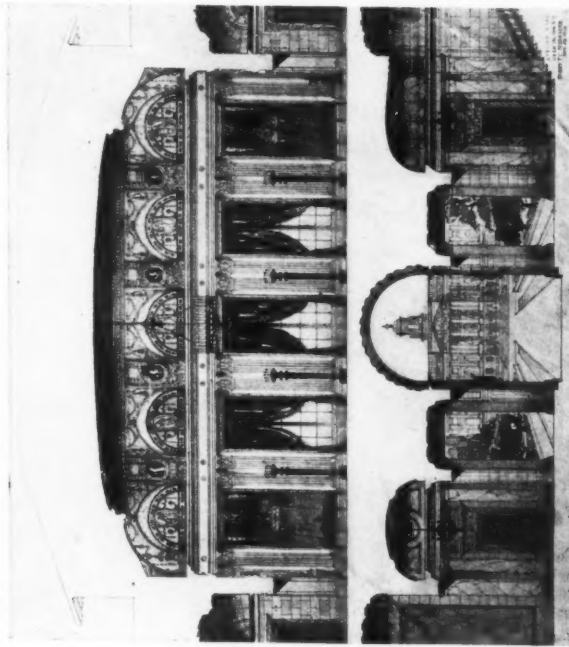
EDWARD CRUMP, JR.

THIRD MEDAL

CARNEGIE TECH. SCHOOLS

CLASS A AND B, ARCHAEOLOGY, MEASURED DRAWING, A ROMAN TABLE

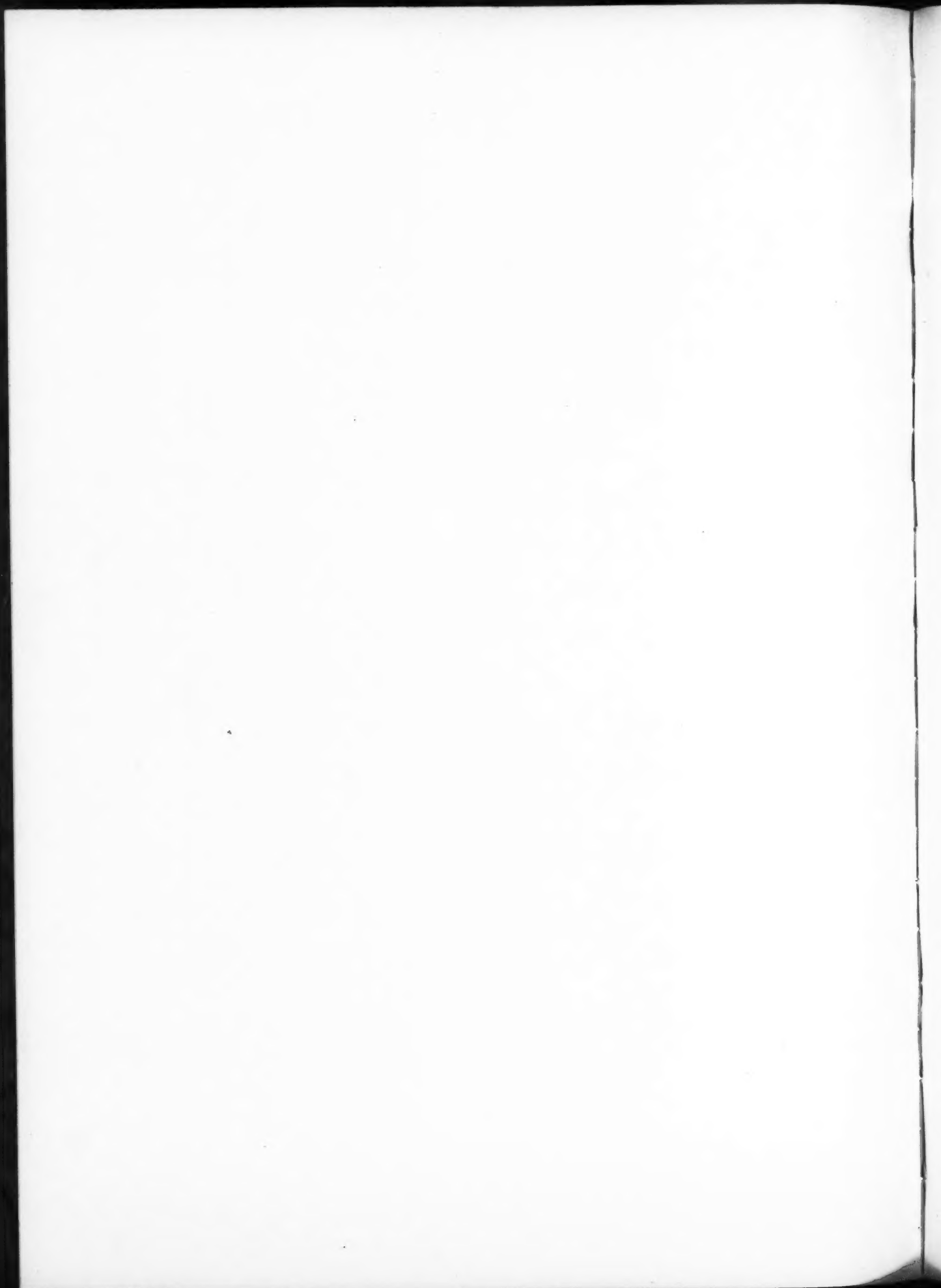
STUDENT WORK, SOCIETY OF BEAUX-ARTS ARCHITECTS



H. F. C. MENNECKE, FIRST MENTION, ATELIER WARE
CLASS "B"—I PROJET (Problem In Design) A DRIVEWAY THROUGH A PUBLIC BUILDING

STANTON D. WILLARD, FIRST MENTION, ATELIER BROWN, S. F. A. C.

STUDENT WORK, SOCIETY OF BEAUX-ARTS ARCHITECTS



CURRENT NEWS AND COMMENT

Washington State Chapter A.I.A.

The regular monthly meeting of the Washington State Chapter A. I. A. was held at the University Club, Seattle, June 5, 1912. With a view towards establishing more cordial relations between the architects and engineers this subject was made a special feature of the meeting, and the following prominent engineers were present as guests of the Chapter: Major James B. Cavanaugh, U. S. Army; A. H. Dimock, City Engineer of Seattle; Captain A. O. Powell and Joseph Jacobs, President and Secretary of the Pacific Northwest Society of Engineers.

Before entering upon the special subject of the meeting the following Committee reports were given consideration:

The Committee on Architectural Instruction at the State University of Washington, Mr. Bebb, Chairman, reported that the Committee had met with the Board of Regents of the University, and had presented a memorial urging the establishment of a Department of Architecture at the University. The proposal was favorably received and referred to the President of the University with whom an interview was being arranged as directed by the Council of the Chapter. The Committee report was accepted and a suggestion was made by Mr. C. F. Gould of the Committee that the Chapter Members use their influence in support of the movement to the end that the next State Legislature might be prevailed upon to appropriate the necessary funds.

The Committee on Contracts and Specifications, Mr. Blackwell, Chairman, reported in detail on some change in the wording of a section of the proposed Washington State Chapter Edition of the Contract Forms. The position taken by the Committee was sustained and the Secretary instructed to notify the publisher at once so that there would be no further delay in the printing.

After routine reports from some other Committees the President welcomed the guests of the evening with a few well chosen remarks on the mutual interest existing between the professions of the architect and the engineer, and expressing a hope that closer sympathy would exist between them. A scholarly presentation of the interrelation of the two professions was read, and the President then introduced Major Cavanaugh, the United States Engineer in charge of local government work. Major Cavanaugh gave a graphic account of the work on the Lake Washington Canal project, what had already been accomplished, and plans for further work which would insure a speedy completion

of this important enterprise. The Major's remarks were of great interest and were much appreciated.

Mr. Dimock, Seattle's City Engineer, was then called upon and spoke of the co-operation that should exist in architectural and engineering work to the advantage of both. Some work of the architect would be better for the engineer's advice as to the proper use of material, and some engineering works were lacking in architectural expression which could only be supplied by the trained architect. It was often most advantageous to have the architect follow the engineer, as in city planning work, where the problem was fundamentally engineering, that of meeting the requirements of transportation. Mr. Dimock spoke of the high value of the architect's work on structures being built under his direction and promised to use his best efforts to secure the architect's co-operation in the future, to the end that we might have worthy civic structures, a paying investment as well as objects of civic pride.

Captain Powell being next called upon gave expression to his wish that closer affiliations might exist between the architects' and engineers' societies, and spoke of a recent action of the Engineers' Society appointing a committee to consider the question of joint quarters to be occupied by different professional organizations. Captain Powell referred to the efforts of the Secretary of the Engineers' Society. Mr. Jacobs, who was next called upon and gave details of the project to secure a building where an adequate meeting place and library facilities could be had.

The Chapter voted that a special committee be appointed to confer with the Engineers' Committee on the subject.

Mr. Blackwell, a member of both the engineers' and architects' societies, was then asked to say a few words on the relation of the two organizations. He had become a charter member of the Engineers' Society, as he had realized the value of co-operation. The French had defined the engineers' and architects' work as one being below and the other above the surface of the ground. It was a common idea, exemplified particularly in this new country, that the engineer builds first and the architect follows and beautifies. The work of both would be better for a closer union and co-operation from the beginning.

Mr. Bebb being called upon stated that there had been nothing to suggest for discussion, as all present were evidently of one mind, and Mr. C. F. Gould spoke of engineering and architecture being in reality two branches of the same profession. The work of the technical men caused a city to mature rapidly,

and the value of this effort did not always get sufficient recognition. Mr. Gould thought the capitalist should be considered in our plans for united action, as he could carry our work into effect.

A cordial invitation from Mr. Dimock and Captain Powell was extended to the Chapter to participate in the convention proceedings of the American Society of Civil Engineers to be held in Seattle the coming month.

Minutes of the Annual Meeting of the Southern Pennsylvania Chapter of the American Institute of Architects

THE ANNUAL BANQUET

The annual meeting of the Southern Pennsylvania Chapter of the A. I. A. was called to order at 5 P.M., with the president, Mr. J. A. Dempwolf, in the chair, at the Engineers' Club, Harrisburg.

The president made an informal annual address in which he referred to the progress the Chapter had made in the past year, and stated that it was a source of gratification to know that its influence was being noticed by members of Congress and others. He also referred to the evil of bad competitions, and expressed the hope that a sense of business principles and fairness in the mind of the public as well as the constancy of the members of the Chapter to the code of ethics of the A. I. A. would bring about a much better condition in the future.

Resolutions on the death of Mr. C. A. McClure, a charter member of this Chapter, were adopted.

The Committee on Competitions reported that it had acted upon the resolutions adopted at the last regular meeting by which letters were written from the committee of this Chapter and also from the Competition Committee of the Institute urging the Harrisburg School Board to make a change in its Rule No. 68 whereby it should be possible to select an architect by direct appointment or by competition under the Rules of the Institute.

The following officers were elected for the ensuing year: President, J. A. Dempwolf; vice-president, B. F. Willis; secretary, M. I. Kast; treasurer, C. Emlen Urban; directors, J. B. Hamme and Thomas H. Hamilton.

On motion it was proposed that Mr. John Hall Rankin be made an honorary member of this Chapter. This was carried unanimously.

The chairman of the Committee on Historic Monuments reported progress and at the same time started a discussion on the subject of the preservation of the tower of Zion Reformed Church at York, Pa. It was urged that an effort be made to have the tower repaired by public subscription or moved to a safer location elsewhere as a monu-

ment, with the addition of an appropriate base to the same. The report was accepted.

After a short discussion of the membership question, the meeting adjourned.

The annual banquet of the Southern Pennsylvania Chapter of the Institute was held on the evening of May 23. The occasion was one of considerable interest and marked by the enthusiasm which characterizes all the meetings of this Chapter.

Mr. J. M. Dempwolf, the president, acted as toastmaster. Addresses were made by Mr. John Hall Rankin, Mr. Arthur D. Bacon, president of the Council of the City of Harrisburg, Mr. Albert Kelsey, Mr. Glenn Brown, secretary of the Institute, and Mr. D. Knickerbacker Boyd, past president of the Pennsylvania State Association, and others.

Bureau of Buildings Bulletins

The following Bulletins have been issued by Mr. Rudolph P. Miller, Superintendent of Buildings for the Borough of Manhattan, in accordance with the practice established by him soon after assuming office.

As previously announced, these Bulletins cover all rulings, modifications of the Code and approvals of new materials of construction and are designed to keep architects and other interested persons informed concerning matters of moment to them. Previous Bulletins were published in our issue of April 10, 1912:

Bulletin No. 12 is a modification granted on precedent already established.

Bulletin No. 13. This Bulletin affects the rules and regulations for plumbing and drainage, water supply, gas piping and ventilation of buildings. It is of somewhat extended character and has the endorsement of the Superintendents of Buildings of the five Boroughs of Greater New York. Space does not permit its reproduction in these columns, but a copy may be seen by application to the Bureau of Buildings.

Bulletin No. 15 is a modification of the Code, permitting the use of a fifteen-foot section of 8-inch wall, due to special conditions and does not appear general in character.

Bulletin No. 16—Fireproof Trim. The incombustible flooring composition manufactured by the Idealite Company of New York is approved for use as flooring and interior trim in buildings exceeding 150 feet in height.

Bulletin No. 17—Cooling Towers. All cooling towers hereafter erected shall be constructed of incombustible material throughout.

Bulletin No. 18. This Bulletin simply outlines a plan of procedure where application for a new building or the enlargement of an existing one is filed for any premises along the line of an existing subway or within one hundred feet of the same. It is provided that the matter shall be referred to the Public Service Commission for approval by the Chief Engineer as to whether the subway structure will be injuriously affected by the proposed work.

Bulletin No. 19—Dumbwaiter Shafts. The Court of Appeals has affirmed the decision of the Appellate Division of the Supreme Court in the case of the City of New York vs. Morton H. C. Foster. This means that the provisions of Section 97 of the Building Code with respect to dumbwaiter shafts are retroactive, and dumbwaiter shafts in tenement houses erected prior to 1900 must be made fireproof. These shafts to be acceptable must be constructed of suitable walls of brick or of burned clay blocks set in iron frames of

proper strength, or of one of the approved fireproof partition constructions.

Bulletin No. 20. Hereafter no permits will be issued by the Bureau of Buildings for repairs or alterations to show windows extending outside the building line between the sidewalk level and ten feet above the same, unless such repairs or alterations contemplate setting the show window back to or within the building line.

Bulletin No. 21—Private Stairs in Duplex Apartments. Hereafter any private stairs within an apartment in a fireproof building shall be constructed of incombustible materials except that the hand rails may be of hardwood and the treads may be of oak not less than 1½ inches thick, provided that where such wooden treads are used, the underside of the stairs shall be entirely lathed with iron or wire lath and plastered thereon or covered with metal.

University of Pennsylvania Makes Honor Awards

The staff of instructors in the School of Architecture of the University of Pennsylvania have announced that they will award a medal to be known as the Faculty Medal of the School of Architecture to the student in architecture who attains the highest general standing in his course. The award this year has been made to Harrison Townsend, Jr., of the graduating class. There were 28 men competing for the prize.

Another prize, offered by John F. Harbeson of the class of 1910, of \$25, to be given to the two men in sums of \$15 and \$10, respectively, who shall have done the best work in the course of historic ornament (the money to be expended in books), was divided between Julius Boenisch and Martin G. Lindquist, both members of the two years' special course.

South Bend (Ind.) Architectural Club's Exhibition

An exhibition of architecture, under the auspices of the South Bend Architectural Club, was formally opened on June 11, and continued for one week. This progressive organization, in addition to a display of work of its own members, was able to draw largely from the exhibits recently shown at the Herron Art Institute at Minneapolis.

The rooms in the Court House at South Bend, thronged with a most appreciative lot of visitors, and the object of the exhibition—the advancement of the cause of good architecture—were very satisfactorily served.

Brooklyn's City Plan

Considerable substantial progress is said to have been made by the Brooklyn Committee on City Planning, and the ground plan, for future development, has been, it is announced, carefully worked out.

Special attention has been directed by the committee to improving transit conditions at the bridge terminals, and these in conjunction with plans for

similar improvement on the Manhattan side will, it is believed, afford relief from the traffic congestion that now taxes the forces of the bridge authorities as well as the police.

The Municipal Building and the Court House site have all been carefully considered, and it is believed that in the fall, when the committee resumes its sessions, progress will be rapid and the general plan will assume tangible shape.

Competition for Los Angeles High School

A competition held by the board of education of the city of Los Angeles, Cal., has resulted in failure due to the fact that its provisions were not drawn in accordance with best practice as outlined by the institute.

The program as originally formulated called for a fee of 3 per cent. without supervision and 3½ per cent. with supervision. It is stated that the failure of institute members to participate in the competition has prevented the presentation of any design of sufficient dignity to warrant its consideration and that the board has extended its competition for a further period of thirty days, at the same time providing for remuneration that complies with the institute code.

It is a satisfaction to note the very active work of the institute in these matters and the efficient manner in which those at the head of the various committees are carrying on the work intrusted to them.

Tulane (La.) University School of Architecture

We note in press despatches that the department of architecture of Tulane University will, owing to the suggestion of the Louisiana Chapter of the institute, be thoroughly reorganized, and afford the very best facilities for study.

Mr. N. C. Curtis, formerly professor of architecture of the Alabama Clinic at Auburn, Ala., has, it is stated, accepted the chair of architecture at Tulane. Professor Curtis is a graduate of Columbia University.

New Jersey State Architect

It is stated in press reports that Mr. George S. Drew has been named as State Architect for the State of New Jersey. Under the present law the State Architect for the State of New Jersey is an assistant of the State Commissioner of Charities and Corrections.

Personal

Mr. Thomas F. Mangin, architect, Syracuse, N. Y., and Mr. George O. Stedman, architect, Rome, N. Y., have formed a co-partnership for the practice of their profession, under the firm name of Mangin & Stedman. Their offices will be in the Betts Block.

INDUSTRIAL INFORMATION

IN this section will be found information concerning late catalogues issued by manufacturers of building materials, fixtures or equipment. Also under this head will be printed, from time to time, certain data relative to new devices or methods of construction considered to be of interest to architects. Architects are invited to make use of THE AMERICAN ARCHITECTS Catalogue Files and Information Department whenever they can do so to advantage. Any assistance we can render or information we can furnish in this connection will be freely given.

Mill Floors of Southern Yellow Pine

The Yellow Pine Manufacturers' Association have recently issued Supplement No. 1 to 1911 edition of "Standard Wood Construction," the subject of this supplement being "Mill Floors of Southern Yellow Pine." The information given, which will be of value to architects, engineers and contractors, is based upon Association standard grading and commercial sizes as outlined in Rules in back of Standard Wood Construction manual. The supplement will be sent to those interested without charge if application is made to the Publicity Department of the Yellow Pine Manufacturers' Association, Wright Bldg., St. Louis, Mo.

Consolidation of Publications in Cement Field

The publishers of *Cement Age* of New York and *Concrete* of Detroit have arranged to consolidate these periodicals (beginning with the July number) under the name of *Concrete-Cement Age*. As *Concrete Engineering* was absorbed by *Cement Age* in January, 1911, the present merger is really a three-sided affair.

The publication office will be in Detroit, Mich., and branch offices will be maintained at 30 Church street, New York, and 1120 First National Bank Building, Chicago.

The editorial and business staff of *Concrete-Cement Age* will be as follows:

Robert W. Lesley, consulting editor.

Allen Brett, managing editor.

Harvey Whipple, associate editor.

Edward A. Trego, associate editor (at Eastern office).

Walter C. Boynton, general manager.

R. Marshall, business manager.

Frederic F. Lincoln, Eastern manager.

Robert M. Babbitt, Western manager.

Automatic Illuminators for Elevator Doors

A device recently devised and now made by the Elevator Automatic Signal Co., Gentry C. Walburn Co., sales agents, Real Estate Trust Building, Philadelphia, Pa., would seem to supply a feature of safety in transporting passengers on elevators that should influence its adoption.

This device is placed near the floor, below the controller, at the proper angle so that a stream of light is thrown across the sill when the elevator is stopped.

If a true landing is not made the rays of the light

will readily disclose the fact, thus showing the passenger the necessary step to be made to insure a safe exit or entrance.

As may be noted, this minimizes the liability of accident.

It is desired by the makers to acquaint architects with the features of this device, and in order to do this, a pamphlet has been prepared which will be mailed on application.

New York Fire Exposition

The first international conference and Exhibition, embracing fire prevention, fire protection and fire fighting, will be held at Madison Square Garden, October 2d to 12th, both inclusive.

The Committee in charge are taking steps to make this Exhibition of deserved importance, and it is expected it will serve to instruct the general public in the duties that devolves upon it in the prevention and protection of fire.

Private Water Systems

The Leader Iron Works, Decatur, Ill., and Owego, N. Y., have issued an attractive hanger printed in colors for use in architects' drafting rooms. It illustrates the various types of outfits manufactured by this company to provide a private water system where the public service is not available. Among them are plants operated by hand power, wind mill, gasoline engine and electric motor. The hanger will be sent promptly on request.

"Russwin" Monographs

Under the above title, the Russell & Erwin Mfg. Co.—The American Hardware Corporation, successor—of New Britain, Conn., with branch offices at 105 West Fortieth St., New York, and in San Francisco and London, have issued a series of pamphlets, each one illustrating some hardware specialty of which they are the manufacturers.

These special lines have all been designed and made with a view to further carrying toward perfection of style those details of hardware that go towards the equipment of the modern high class building.

The monographs thus far issued are on Sectional Door Handles, Door Holders—ingenious devices to hold a door rigidly in place at any desired angle—Floor Hinges, Night Latches, Shutter Workers and a new design of Front Door Sets, called the Regent. These monographs will be sent on request.

INDEX TO CURRENT ARCHITECTURAL LITERATURE AND ILLUSTRATIONS

TEXT.

- AMERICAN CHURCHES, EARLY. Part VII. By Aymar Embury II. *The Architectural Record*, June, 1912.
- AMERICAN COLONY OF ARTISTS IN PARIS. III. By E. A. Taylor. *The International Studio*, June, 1912.
- ANGLER, THE COMPLETE, OR COMPETITIONS ANCIENT AND MODERN. By Hubert G. Ripley. *The Brickbuilder*, May, 1912.
- ARCHITECTURAL EXHIBITION IN PHILADELPHIA, ANNUAL. *The International Studio*, June, 1912.
- ARCHITECTURAL PRESS, THE CURRENT. *The American Architect*, May 8, 1912.
- ARCHITECTURE AS A PRECEDENT, DISTINGUISHED. III. By C. Howard Walker. *The Brickbuilder*, May, 1912.
- ARCHITECTURE CONSIDERED IN RELATION TO MUSIC. By H. H. Statham. *The American Architect*, May 1, 1912.
- ARCHITECTURE OF PORTLAND, OREGON. By Herbert D. Croly. *The Architectural Record*, June, 1912.
- ART AT PITTSBURGH, INTERNATIONAL. By Christian Brinton. *The International Studio*, June, 1912.
- ART SCHOOL WITH A STANDARD, AN. *The International Studio*, June, 1912.
- AWARDS FOR EXCELLENCE IN EXTERIOR DESIGN OF APARTMENT HOUSES. By the New York Chapter, A. I. A. *The Architect*, April, 1912.
- CAMPANILE IN THE PLAZA OF ST. MARK'S, VENICE, THE RECONSTRUCTION OF THE. By Charles A. Brazzler. *The American Architect*, May 22, 1912.
- CITY GATES, MODERN. By Huger Elliott. *The Architectural Review*, May, 1912.
- COUNTRY HOUSE IN AMERICA, THE. *The American Architect*, May 1, 1912.
- CURRENT PERIODICALS. *The Architectural Review*, May, 1912.
- DOMESTIC ARCHITECTURE, RECENT DESIGNS IN. *The International Studio*, June, 1912.
- DRAUGHTSMANSHIP, THRIFTY. By J. T. Tubby, Jr. *The Architectural Record*, June, 1912.
- ENTENTE-CORDIALE, AN ARTISTIC. By W. Francklyn Paris. *The Architectural Record*, June, 1912.
- FARM HOUSE "DE LUXE," THE. Country seat of Robert J. Collier. John Russell Pope, Architect. *The Architectural Record*, June, 1912.
- FLORENTINE HOUSE IN THE MIDDLE AGES. By Walter Bombe. *The Architectural Record*, June, 1912.
- FRENCH INSTITUTE IN THE UNITED STATES, THE OPENING EXHIBITION OF THE. By William Francklyn Paris. *The International Studio*, June, 1912.
- GARDEN WORK OF CHARLES A. PLATT, THE. By Samuel Howe. *The American Architect*, May 1, 1912.
- GLASSES, ROLLED. Part III. By E. H. Bostock. *The American Architect*, May 15, 1912.
- HEATING AND VENTILATING SYSTEM FOR AN EIGHT ROOM SCHOOL BUILDING, SPECIFICATIONS FOR A. By Charles L. Hubbard. *The Brickbuilder*, May, 1912.
- HOUSE ON BREAK NECK MOUNTAIN, NEW YORK. Werner & Windolph, Architects. *The American Architect*, May 15, 1912.
- HOUSE OF MODERATE COST, BUILDING A. By Robert C. Spencer, Jr. *The Architectural Record*, June, 1912.
- LANDSCAPE ARCHITECTURE. By Henry Preston White. *The American Architect*, May 1, 1912.
- LANDSCAPE ARCHITECTURE, THE NECESSITY FOR SPECIAL PREPARATION FOR THE PRACTICE OF. By Charles W. Leavitt, Jr. *Architecture*, June, 1912.
- LITTLE THEATRE. *The Architect*, April, 1912.
- LOS ANGELES TRUST AND SAVINGS BANK, LOS ANGELES, CAL. Parkinson & Bergstrom, Architects. *The Brickbuilder*, May, 1912.

- MANAGEMENT IN THE ARCHITECT'S OFFICE, SCIENTIFIC. By William O. Ludlow. *The Brickbuilder*, May, 1912.
- MONUMENTS, COMMEMORATIVE. IV. By H. Van Buren Magonigle. *The Brickbuilder*, May, 1912.
- MOSCOW, PICTURES OF OLD. By A. Vasnetzoff. *The International Studio*, June, 1912.
- MOSTYN, TOM. Painter of Romance. *The International Studio*, June, 1912.
- OTHERS SEE US, AS. *The American Architect*, May 8, 1912.
- PAINTINGS OF D. Y. CAMERON. By A. Stodart Walker. *The International Studio*, June, 1912.
- PORTLAND CEMENT, MORTAR AND CONCRETE, OIL MIXED. By Logan Waller Page. *Architecture*, June, 1912.
- PUBLIC BATH AND GYMNASIUM IN THE CITY OF NEW YORK. Werner & Windolph, Architects. *The American Architect*, May 15, 1912.
- RATIONALISM OF THE TWENTIETH CENTURY ARCHITECTURE. By G. Albert Lansburgh, Architect. *The Western Architect*, June, 1912.
- REUTER, EDMOND G., A SWISS ARTIST. By Prof. Robert Mobbs. *The International Studio*, June, 1912.
- SHOP FRONTS. *Architecture*, June, 1912.
- STAINED GLASS AND THE BREAK UP OF THE ART, THE EFFECTS OF THE RENAISSANCE ON. Part V. By Clement Heaton. *The American Architect*, May 8, 1912.
- TERRA COTTA, GLAZED AND LUSTERED. By Samuel Howe. *The American Architect*, May 29, 1912.

ILLUSTRATIONS.

- "ALDERBROOK," KATONAH, N. Y. Charles A. Platt, Architect. *The American Architect*, May 1, 1912.
- APARTMENT HOUSE, CHICAGO, ILL. Spencer & Powers, Architects. *The Brickbuilder*, May, 1912.
- APARTMENT HOUSE, 563 PARK AVE., NEW YORK. Walter B. Chambers, Architect. *The Architect*, April, 1912.
- APARTMENTS SINKER ROAD, ST. LOUIS, MO. *The Western Architect*, June, 1912.
- BEDROOM AND MUSIC ROOM DESIGNED BY GUST. DOREN. *The International Studio*, June, 1912.
- "BERWICK BRIDGE." By D. Y. Cameron. *The International Studio*, June, 1912.
- "CASTLE IN THE ARDENNES." By D. Y. Cameron. *The International Studio*, June, 1912.
- CITY CLUB, CHICAGO, ILL. Pond & Pond, Architects. *The Brickbuilder*, May, 1912.
- CLAVERDON HALL, WARWICKSHIRE. Alterations and Additions by Arthur McKewan. *The International Studio*, June, 1912.
- COMPETITION FOR A MUSEUM OF FINE ARTS, MINNEAPOLIS, MINN., DESIGNERS SUBMITTED IN. Shepley, Rutan & Coolidge, Architects. Carrere & Hastings, Architects, Pell & Corbett, Architects, Hewitt & Brown, Architects, McKim, Mead & White, Architects. *The Architectural Review*, May, 1912.
- COUNTRY HOME NEAR PHILADELPHIA. Louis C. Hickman, Architect. *The American Architect*, May 22, 1912.
- COUNTRY SEAT OF ROBERT J. COLLIER, WICKATUNK, N. J. John Russell Pope, Architect. *The Architectural Record*, June, 1912.
- COUNTRY HOUSE OF MRS. W. WICKHAM SMITH, MT. KISCO, N. Y. Alfred Busselle, Architect. *Architecture*, June, 1912.
- COUNTRY HOUSE OF J. STERN, BREAKNECK MOUNTAIN, N. Y. Werner & Windolph, Architects. *The American Architect*, May 15, 1912.
- COUNTRY HOUSE AT WYNDMOOR, PA. Thomas, Churchman & Molitar, Architects. *The International Studio*, June, 1912.
- "CRAIGIEVAR." By D. Y. Cameron. *The International Studio*, June, 1912.
- DENVER GAS & ELECTRIC BUILDING. F. E. Edbrooke, Architect. *The Western Architect*, June, 1912.
- DESIGN AND PLANS FOR SMALL COUNTRY HOUSE. Aymar Embury II., Architect. *Architecture*, June, 1912.

- DESIGN FOR A PRIVATE LAUNDRY. By Albert Diserens. *The International Studio*, June, 1912.
- "DINGLETON" HOUSE, CORNISH, N. H. Charles A. Platt, Architect. *The American Architect*, May 8, 1912.
- "EASTOVER," NEW CONDON, CONN. Charles A. Platt, Architect. *The American Architect*, May 1, 1912.
- GARDEN OF HAROLD F. McCORMICK, LAKE FOREST, ILL. Charles A. Platt, Architect. *The American Architect*, May 1, 1912.
- GREEK THEATRE, ARLES. Drawing by Gordon Home. *The International Studio*, June, 1912.
- "GWINN" CLEVELAND, OHIO. Charles A. Platt, Architect. *The American Architect*, May 8, 1912.
- HIGBEE STORE BLD., CLEVELAND, O. Abram Garfield, Architect. *The Brickbuilder*, May, 1912.
- HOFBRAU HAUS EXTENSION, 32 W. 30TH ST., NEW YORK. B. Hustace Simonson, Architect. *Architecture*, June, 1912.
- HOTEL UTAH, SALT LAKE CITY, UTAH. Parkinson & Bergstrom, Architects. *The Western Architect*, June, 1912.
- HOUSE OF CLARENCE M. BROWN, GERMANTOWN, PA. Duh-ring, Okie & Zigler, Architects. *The American Architect*, May 1, 1912.
- HOUSE OF C. L. BUTLER, FRAMINGHAM, MASS. Frank Chouteau Brown, Architect. *Architecture*, June, 1912.
- HOUSE OF JEFFREY DAVIS, KINGSTON, R. I. J. Howard Adams, Architect. *The American Architect*, May 1, 1912.
- HOUSE OF HON. E. S. DRAPER, BOSTON, MASS. A. W. Long-fellow, Architect. *The American Architect*, May 29, 1912.
- HOUSE OF MRS. J. SLOAT FASSETT, GLOUCESTER, MASS. Edwin J. Lewis, Jr., Architect, May 1, 1912. *The American Architect*.
- HOUSE OF LEDYARD HECKSCHER, RADNOR, PA. Duh-ring, Okie & Zigler, Architects. *The American Architect*, May 22, 1912.
- HOUSE OF HON. PHILANDER C. KNOX, VALLEY FORGE, PA. Duh-ring, Okie & Zigler, Architects. *The American Architect*, May 1, 1912.
- HOUSE AT LAKE FOREST, ILL. Howard Van D. Shaw, Architect. *The Brickbuilder*, May, 1912.
- HOUSE AT LAKE MINNETONKA, MINN. Howard Van D. Shaw, Architect. *The Brickbuilder*, May, 1912.
- HOUSE AT LAKE FOREST, ILL. Schmidt, Garden & Martin, Architects. *The Brickbuilder*, May, 1912.
- HOUSE AT LAKE FOREST, ILL. Shepley, Rutan & Coolidge, Architects. *The Brickbuilder*, May, 1912.
- HOUSE OF EDWARD F. McCLENNEN, CAMBRIDGE, MASS. Frank A. Bourne, Architect. *The American Architect*, May 1, 1912.
- HOUSE OF H. F. McCORMICK. Charles A. Platt, Architect. *The American Architect*, May 8, 1912.
- HOUSE OF WM. G. MATHER. Charles A. Platt, Architect. *The American Architect*, May 8, 1912.
- HOUSE, NASSAU BOULEVARD, L. I. Oswald C. Hering, Architect. *Architecture*, June, 1912.
- HOUSE IN NEW JERSEY. Wilson Eyre, Architect. *The American Architect*, May 22, 1912.
- HOUSE AT PORT DEPOSIT, MD. Parker, Thomas & Rice, Architect. *The Architectural Record*, June, 1912.
- HOUSE OF ROBT. L. RAYMOND, MANCHESTER-BY-THE-SEA, MASS. James Purdon, Architect. *The American Architect*, May 1, 1912.
- HOUSE OF J. HERMON TERRY, EDGEWATER PARK, N. J. J. Fletcher Street, Architect. *The American Architect*, May 22, 1912.
- HOUSE FOR RANDOLPH TUCKER, CHESTNUT HILL, MASS. Chapman & Frazer, Architects. *The Architectural Review*, May, 1912.
- HOUSE OF DR. GEORGE WOODWARD, ST. MARTIN'S, PA. Goodwin & Hawley, Architects. *The American Architect*, May 29, 1912.
- HOUSE ON YORK ROAD, OAK LANE, PA. Valentine B. Lee and Edwin H. Fetterolf, Associated Architects. *The American Architect*, May 29, 1912.
- INDIANAPOLIS ART MUSEUM, DESIGN FOR. Vonnegut & Bohn, Architects. *The Western Architect*, June, 1912.
- JEANNE D'ARC HOME, No. 253 W. 24TH ST., NEW YORK. Daus & Otto, Architects. *The American Architect*, May 22, 1912.
- LEESMONT APARTMENTS, SAN FRANCISCO, CAL. Stone & Smith, Architects. *The Western Architect*, June, 1912.
- LITTLE THEATRE, NEW YORK. Harry Creighton Ingalls and F. Burrall Hoffman, Jr. Associate Architects. *The Architect*, April, 1912.
- "LUXOR: NIGHTFALL." By D. Y. Cameron. *The International Studio*, June, 1912.
- MANOR HOUSE, GLEN COVE, L. I. Charles A. Platt, Architect. *The American Architect*, May 8, 1912.
- "MAXWELL COURT," ROCKVILLE, CONN. Charles A. Platt, Architect. *The American Architect*, May 1, 1912.
- MOSCOW, OLD. By A. Vasnetzoff. *The International Studio*, June, 1912.
- "NORTH FARM," BRISTOL, R. I. Charles A. Platt, Architect. *The American Architect*, May 1, 1912.
- OLDCASTLE, DALLINGTON, SUSSEX. Ernest Newton, Architect. *The International Studio*, June, 1912.
- PEN AND INK. By Harvey Ellis. *The Western Architect*, June, 1912.
- PERGOLA, THE, "WELD." Charles A. Platt, Architect. *The American Architect*, May 8, 1912.
- PHYSICIAN'S OFFICE BLDG., GALESBURG, ILL. Spencer & Powers, Architects. *The Brickbuilder*, May, 1912.
- PUBLIC BATH AND GYMNASIUM, EAST 54TH ST., NEW YORK. Werner & Windolph, Architects. *The American Architect*, May 15, 1912.
- RESIDENCE OF HOLLOW TILE CONSTRUCTION. Dorr & Dorr, Architects. *The Western Architect*, June, 1912.
- RESIDENCE, MINNEAPOLIS, MINN. William M. Kenyon, Architect. *The Western Architect*, June, 1912.
- RESIDENCE AT ST. DAVID'S, PA. *The International Studio*, June, 1912. Mellor & Meigs, Architects.
- RESIDENCE FOR BENJAMIN VREELAND, SAN DIEGO, CAL. Walter S. Keller, Architect. *The Western Architect*, June, 1912.
- RESIDENCE WALSSEND-ON-TYNE, ENGLAND. Edward Cratney, Architect. *The Western Architect*, June, 1912.
- ST. PETER'S CHURCH, LOWESTOFT, SUFFOLK, ENGLAND. Edward Warren, Architect. *The Architectural Review*, May, 1912.
- SHOP BUILDINGS IN NEW YORK CITY. *Architecture*, June, 1912.
- SKETCH BY WILSON EYRE FOR A GROUP OF THREE HOUSES, SUGGESTING THE POSSIBILITIES OF A CO-OPERATIVE IMPROVEMENT OF THE SMALL COUNTRY OR SUBURBAN TRACT. *The Architectural Record*, June, 1912.
- STUDENT WORK, SOCIETY OF BEAUX-ARTS ARCHITECTS. *The American Architect*, May 8, 1912.
- "TEWKESBURY." By D. Y. Cameron. *The International Studio*, June, 1912.
- TWO-FAMILY APARTMENT HOUSE, BLYTH, ENGLAND. Edward Cratney, Architect. *The Western Architect*, June, 1912.
- UNION STATION, BALTIMORE, MD. Kenneth M. Murchison, Architect. *Architecture*, June, 1912.
- UNIVERSITY OF PENNSYLVANIA DORMITORIES, PROVOST'S TOWER. Cope & Stewardson, Architects. *The International Studio*, June, 1912.
- WESLEYAN SCHOOLS, MIDDLETON, ENGLAND. Edgar Wood, Architect. *The Architectural Review*, May, 1912.
- WESTWOOD SCHOOL, CINCINNATI, O. Garber & Woodward, Architects. *The Architectural Review*, May, 1912.
- "WOODSTON," MOUNT KISCO, N. Y. Charles A. Platt, Architect. *The American Architect*, May 8, 1912.



Residence of Thomas P. Barnett, of Barnett, Haynes & Barnett, Architects, St. Louis. Lined with Cabot's Quilt.

Make Your Buildings Frost - Proof

by lining them with

Cabot's "Quilt"

"QUILT" is not like common building papers. It is a matted lining full of dead air spaces and keeps out the cold in the same way that a bird's feathers do. It is forty times warmer (or cooler in summer) than the common cheap papers. It costs about 1 cent a foot and will pay for itself over and over again in saving fuel, and in protecting the family from discomfort and doctor's bills. *Send for samples and full information.*

SAMUEL CABOT, INC., Mfg. Chemists, Boston, Mass.

1133 BROADWAY, NEW YORK

350 DEARBORN AVENUE, CHICAGO

Cabot's Creosote Shingle Stains, Waterproof Cement and Brick Stains, Conservo Wood Preservative. Dampproofing, Waterproofing.

Agents all over the country



HOLT BLDG, NEWARK, N. J.

Flood the Basement With Pure White Daylight

The "Sun-Burst" system of Vault Lighting as shown in the illustration, gives a flood of pure white daylight in every corner of the basement.

The entire area contains 100 per cent. under-surface of glass and eliminates the objectionable shadows cast by the ordinary systems.

The advantages of using Sun-Burst Vault Lights are its positive strength and safety. Every prism of glass is reinforced with concrete, and not a particle of metal is exposed to rust.

Write your "Vault Light" problems to us and we will give you our experience on this subject. Our catalog on "Sun-Burst Prisms" is free for the asking.

SUN-BURST PRISM COMPANY

Main Office: 243 South 10th Street

PHILADELPHIA, PA.

1118 Broadway, Brooklyn, N. Y.



SILVER LAKE Sash Cord

Does it pay
to rip out the
other kind

building?
information from

Would it not have been wiser
to have specified Silver Lake
A, that lasts as long as the
Samples, catalogue and further

SILVER LAKE COMPANY
BOSTON

THE L. SCHREIBER & SONS CO.

STRUCTURAL STEEL  CINCINNATI  ORNAMENTAL IRON

BRANCH OFFICES NEW YORK • CHICAGO • PITTSBURG • ATLANTA • NEW ORLEANS • SAN FRANCISCO • RICHMOND

OKONITE
INSULATED

ELECTRIC LIGHT WIRES

Are pronounced by leading Architects to be SAFE, DURABLE and EASILY ADJUSTED for the inside wiring of PUBLIC and PRIVATE BUILDINGS.

Sole Manufacturers **THE OKONITE CO., 253 Broadway, New York**

CENTRAL ELECTRIC CO., Chicago, Ill., General Western Agents

Novelty Electric Co., Phila., Pa.

F. D. Lawrence Electric Co., Cincinnati, O.



TRADE MARK
REG. U. S. PATENT OFFICE.

Pettingell-Andrews Co., Boston, Mass.

BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

CALIFORNIA

LOS ANGELES.—Officials of the Trinity Church Building Company have filed with the Title Insurance & Trust Company a trust deed for \$500,000, which sum is to be used in the erection of a new edifice for the congregation in Grand Ave., between 8th and 9th Sts. The Rev. R. P. Howell is pastor of Trinity Church.

John C. Austin and W. C. Pennell are the architects who are preparing the plans for the big 13-story mercantile building, which will be erected on W. 7th St., between Olive St. and Grand Ave. for the Standard Fireproof Building Co., of which Shirley C. Ward is President.

Members of the University Club have voted to enter into negotiations to erect an ornate club building of 13 stories on the east side of Hill St., adjoining the First Methodist Church facing Central Park. The total cost of the improvement is estimated at \$1,000,000. C. E. Richards is chairman of the committee in charge.

NEWPORT BEACH.—Town has voted bonds in sum of \$27,000 for erection of new school on 14th St. Paul V. Tuttle and E. L. Hopkins, of Los Angeles, have completed plans for same.

SAN FRANCISCO.—Drawings submitted by Architects Bakewell & Browne, 417 Montgomery St., have been selected for the new City Hall; estimated cost \$4,000,000.

COLORADO

DENVER.—Plans are being prepared by Architects Gove & Walsh for a 5-story fireproof cold storage warehouse to be built by the Littleton Creamery Company on two lots on Wynkoop St., near 18th. Estimated cost, \$60,000.

Charles S. Witwer, a Denver attorney, has bought 10 lots at the corner of 13th Ave. and Jackson St., in Capitol Ave. subdivision, and will proceed at once to the erection of seven or eight bungalows. From \$25,000 to \$30,000 will be spent improving the property.

CONNECTICUT

BRIDGEPORT.—Arrangements are being made by Mrs. Annie Gorman for the erection of an apartment house on State St. near Colorado Ave., the plans for which are by Architect Joseph W. Northrup.

Architect Leonard Asheim has been commissioned to prepare plans for the proposed new schoolhouse in the West End. Land has been purchased on Orland St. as a site for the new building.

Architect Warren R. Briggs has been commissioned to prepare the plan for the new grammar school to be erected for the town of Fairfield. Rev. Allen F. Beeman is secretary of the school committee.

Plans have been prepared by Architect C. T. Beardsley for another addition to the plant of the American Graphophone Company.

HARTFORD.—Plans have been made for 4-story building to be erected on Asylum St. for T. W. Russell and W. M. Storrs. Plans for the building have been made by Architects Bassett & Smith, and general contract has been awarded to C. B. Andrus & Son.

HARTFORD.—Architects Davis & Brooks, 49 Pearl St., have been commissioned by the building committee of the trustees of Storrs Agricultural College of Mansfield to draw plans and specifications for a building to duplicate Storrs Hall. Estimated cost, \$65,000.

NEW HAVEN.—Architect Henry G. Morse, 340 Madison Ave., New York City, has been awarded the commission for the Laboratory of Electrical Engineering at Sheffield Scientific School, Yale.

TORRINGTON.—Architect Joseph T. Smith, 36 N. Main St., Waterbury, has plans out for figures for a business block to be erected on Water St., Torrington, for the George L. Lilley Co. It will be a 3-story building.

WATERBURY.—Architects Griggs & Hunt, 51 Leavenworth St., will shortly have plans completed for the factory to be erected on S. Main St. for the Waterbury Buckle Co. It will be three stories high.

WATERBURY.—Plans are being figured for alterations to Mrs. Ellen Callaghan's house on Bishop St. It will be remodeled for three apartments. Freney & Jackson, of Leavenworth St., are the architects.

Sketches have been completed by Architect C. Jerome Bailey, of Bank St., for a block of 4 stories to be built on South Main street, by J. G. Levine, 344 North Willow St.

WATERBURY.—Plans are being figured for a new moving picture theater to be erected at the corner of North Main and North Sts., for B. E. Hausdorf. Freney & Jackson, 51 Leavenworth St., are the architects.

Plans are being figured for the rectory to be erected in Waterville on Thomaston Ave. for St. Paul's Episcopal Church. Henry M. Congdon & Son, of New York City, are the architects. Homer C. Senior is chairman of the Building Committee.

DISTRICT OF COLUMBIA

WASHINGTON.—Architects Macneil & Macneil have prepared plans for residence to be built for Mr. Liggett at 23d St. and Wyoming Ave. It is estimated that the residence will cost over \$25,000, exclusive of other improvements.

Dr. J. Franklin Jameson, of the Carnegie Institution, has purchased tract containing about $4\frac{1}{2}$ acres east of Connecticut Ave. It is understood that Dr. Jameson will improve the property and use it as a summer home.

John H. Nolan is having plans prepared for a 6-story apartment house to be erected at corner of Columbia and Belmont Rds.

GEORGIA

ROME.—Plans for the new hotel to be erected at corner of Broad St. and Fifth Ave. by the Broad St. Hotel Company have been made by the incorporators. Estimated cost, \$100,000.

INDIANA

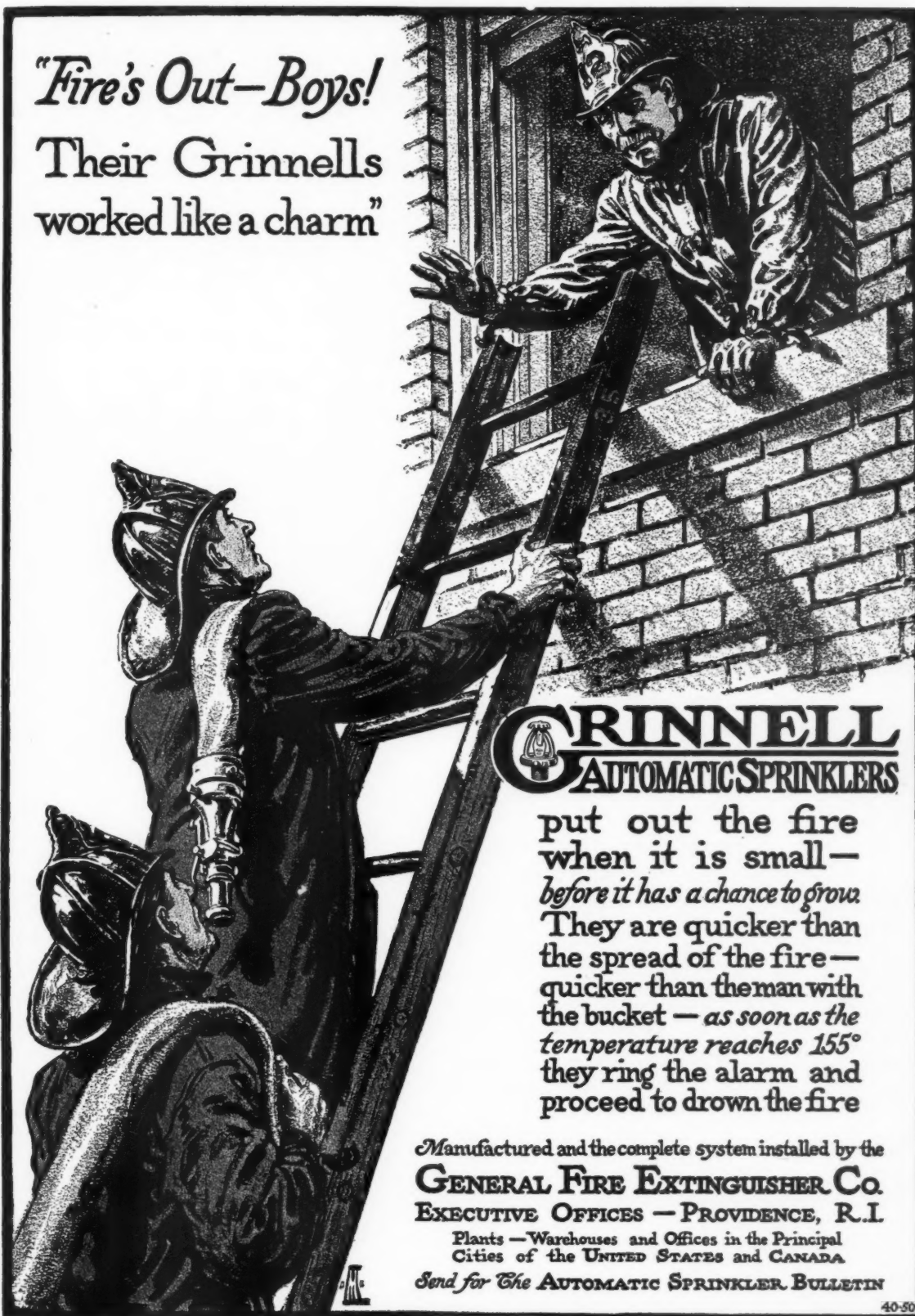
EVANSVILLE.—The Oree Iron Company will erect first skeleton construction building in this city at a cost of \$100,000. Plans have been prepared by Architects Brubaker, Stern & Boyle.

EVANSVILLE.—The directors of the New Vendome Hotel Company have decided to erect addition on the Third St. side of the New Vendome at cost of \$100,000. Benbaker, Stern & Boyle, Aetna Bldg., Indianapolis, will probably be the architects.

EVANSVILLE.—Plans for nine schools and nine church jobs are in the offices of the Clifford Shopbell Company, Furniture Bldg.

FORT WAYNE.—County Commissioners are considering plans for proposed improvements to the County Infirmary; estimated cost, \$50,000.

*"Fire's Out—Boys!
Their Grinnells
worked like a charm"*



GRINNELL AUTOMATIC SPRINKLERS

put out the fire
when it is small—
before it has a chance to grow.
They are quicker than
the spread of the fire—
quicker than the man with
the bucket — *as soon as the
temperature reaches 155°*
they ring the alarm and
proceed to drown the fire

Manufactured and the complete system installed by the
GENERAL FIRE EXTINGUISHER CO.
EXECUTIVE OFFICES — PROVIDENCE, R.I.

Plants — Warehouses and Offices in the Principal
Cities of the UNITED STATES and CANADA

Send for The AUTOMATIC SPRINKLER BULLETIN

INDIANAPOLIS.—Plans for a 3-story brick apartment house to be built by Dr. D. L. Kahn, at Delaware and 22d Sts., have been submitted to Building Inspector Winterrowd for approval. The building will cost \$22,000.

SOUTH BEND.—The Mishawaka Furniture Company will erect a 2-story brick building with a frontage on Main St.

IOWA

FREMONT.—The Fremont school board has approved the plans of Architects Dyer & Carner for the new high school building to be erected at a cost of \$125,000.

LYNNVILLE.—Bids will be received until 2 P. M., July 15, for the erection of a high school building. Architects Proudfoot, Bird & Rawson, Des Moines, Iowa; Henry Beyer, Secretary.

POSTVILLE.—The Postville State Bank will erect a 2-story bank and office building. Architect Thos. T. Carkeek, Dubuque.

SIoux CENTER.—Architect W. W. Beach, United Bank Bldg., Sioux City, has been commissioned to prepare plans for a public school building. It will be brick construction two stories high. Estimated cost \$200,000.

KENTUCKY

LOUISVILLE.—Plans have been filed for an 11-story concrete building at corner of Fifth and Walnut Sts. by J. Bornstein and Hill Spalding for Great Southern Fire Insurance Realty Company. Estimated cost, \$300,000.

MARYLAND

BALTIMORE.—Plans are now under way for the erection of a handsome new building for the Maryland Medical College to adjoin Franklin Square Hospital, Calhoun and Fayette Sts.

MASSACHUSETTS

BOSTON.—Charles Kolodny has purchased site on Huntington Ave., Hemenway St. and Fencourt, and will erect three apartment houses.

MICHIGAN

FLINT.—The Board of Trustees of the Michigan School for the Deaf have approved of plans for a group of three closely connected buildings to take the place of the main building of the school recently destroyed by fire. The plans were prepared by E. A. Bowd, 127 Allegan St., Lansing, and provide for fireproof construction.

MINNESOTA

DULUTH.—Bids will be received by N. A. Young, clerk of the County Board of Education, until 5 P. M., July 8, for the erection of four schoolhouses in the farming district. Architect Vernon J. Price, 670 Palladio Bldg.

DULUTH.—Architect J. J. Wangenstein, Providence Bldg., has plans completed for the reconstruction of the 3-story brick block on Superior St. between 3d and 4th Ave. E., for the Shogomoc Co.

Architect Vernon J. Price, 670 Palladio Bldg., has prepared plans for the 3-story arrangement of the proposed city hall and bids will shortly be called for.

Architect Anthony Puck, Lyceum Bldg., will shortly take bids for an addition to a school building in the Kenney location near Buhl. Cost \$10,000.

ELMORE.—Bids will be received by S. H. Taylor, secretary, until 8 P. M., July 10, for the erection of a high school building. F. S. Halden, architect, and L. B. Mason, architectural engineer, Kasota Bldg., Minneapolis.

GLYNDON.—Plans for the high school to be erected have been prepared by Architects Haxby & Gillespie.

MINNEAPOLIS.—Architect Ernest Kennedy, Boston Block, and J. S. Bradstreet & Co., will erect the largest

ballroom in the city at The Leamington, between two wings of the hotel, at a cost of \$25,000.

Bids for the Nurses' Home at the City Hospital will be received by the Board of Charities and Corrections, City Hall, till 12 o'clock, noon, July 9. Plans may be seen at the offices of the architects, Long, Lamoreaux & Long, 830 Hennepin Ave.

ST. PAUL.—The St. Paul's Episcopal church congregation will erect a handsome gothic structure at Summit and Saratoga to cost \$45,000; Architect E. L. Masqueray, Oppenheim Bldg.

Plans by Architect Peter J. Linhoff, German National Bank Bldg., have been accepted by the Twin City Linnea Society, for their new home for the aged to cost \$30,000.

MISSOURI

ST. LOUIS.—Site of the old Drummond farm, near Maplewood, has been purchased for the erection of diocesan Catholic seminary, which is estimated to cost \$500,000. Father Tallon is president of the seminary board and Father Gilfillan secretary.

MONTANA

GREAT FALLS.—The City Council has selected Architect George H. Shanley to prepare plans for the proposed \$150,000 city hall.

NEBRASKA

OMAHA.—John D. Creighton and John A. McShane, trustees, will erect a home for working girls with sum of \$160,000 left by the late Count Creighton.

Eggers-O'Flynn Co. is planning to erect a five-story addition to their building. Cost, \$40,000.

NEW JERSEY

EDGEWATER.—Board of Education, Borough of Edgewater, has purchased piece of land, opposite 130th St., which will be used as the site for a new school building. The proposed school building will cost about \$100,000.

ELIZABETH.—John Masury & Sons, paint manufacturers, are making plans for a \$500,000 factory in Elizabeth. A site has been secured, and it is expected that the erection of a large plant will be started in the near future.

NEWARK.—A 2-story double residence will be erected at 79 and 81 Farley Ave. for Henry Rodemann, which will cost \$9,000. The plans have been designed by Architect Frederick G. Nobbe, 189 Market St.

PERTH AMBOY.—Bids for an addition to the grammar school, for a manual training school and for a central heating plant in the grammar school building will be received by the Board of Education, July 5.

NEW YORK

NEW ROCHELLE.—Bids will be received until July 8 by Architect A. R. Ross, 16 E. Forty-second St., New York City, for erection of library for public library, New Rochelle.

ALBANY.—Adj. Gen. Verbeck has purchased site near the Hudson River front for a new State arsenal to take the place of the arsenal at 37th St. and 7th Ave., New York City. The plans will be drawn by the State Architect. It is estimated that the new building, including the site, will cost \$200,000.

BROOKLYN.—St. Joseph's Polish Church will build a 1-story brick parish school on the east side of Rockaway road, Jamaica, to cost \$10,000.

Plans for a new public school to be erected in 4th Ave., between 29th and 30th Sts., have been filed in the Brooklyn Building Department. The cost of the new structure is to be \$160,000.

BROOKLYN.—The Brooklyn section of the Council of Jewish Women will shortly choose a site for the erection

Here's EVIDENCE

of the Actual Saving effected by the use of

Detroit-Fenestra
PATENTED

Solid Steel Windows

DO NOT handicap *the* workers, give them Fenestra lighting and perfect ventilation.

Only in Fenestra Solid Steel Windows is the "utmost strength combined with the least bulk and the least weight" obtainable. Detroit Fenestra is absolutely fireproof. It permits of 100% ventilation and light.

Detroit Steel Products Co.

Dept. 6

Detroit, Mich.

HUPP MOTOR CAR COMPANY
MANUFACTURERS OF
Hupmobile
DETROIT, MICHIGAN, U.S.A.

CABLE ADDRESS: "HUPP DETROIT" LIESER, WESTERN UNION AND A & C 5th EDITION BOOKS

ADDRESS ALL COMMUNICATIONS TO THE COMPANY AT DETROIT

April 30, 1912.

Detroit Steel Products Company,
Detroit, Michigan.

Gentlemen:

After operating in our new plant for several weeks, we find that improved working conditions have so increased the efficiency of our labor as to enable us to reduce our working day from ten to nine hours without diminishing the pro rata amount of production.

The excellent lighting and ventilating effects obtained by the installation of your FENESTRA windows, have been an important factor in getting this result. These windows are a profitable investment, not only on account of the low original cost and inexpensive maintenance, but also because of the better lighting facilities and more cheerful environment they afford our workmen.

Despite the severe weather we completed our buildings in record time, to provide facilities for the increased demand for HUPMOBILES. We wish to thank you for your prompt delivery which materially aided us in finishing the work on schedule time.

Yours very truly,
HUPP MOTOR CAR COMPANY
By *J. Walter Drake*
President.

JWD/AH

of the Council Home for Friendless Girls, for which plans have been prepared and papers of incorporation are now being signed. The home will probably be located in South Jamaica. Mrs. Mark M. Solomon, first vice-president of the Brooklyn section, is the chairman in charge of the committee which is arranging the details.

BROOKLYN.—The New York Dock Company has razed a large section of the warehouses in Furman Street opposite piers 7 and 8. They are to be replaced by an 8-story concrete structure erected on concrete piling.

BUFFALO.—Bids for erection of a new 32-room fire-proof school building in District No. 32, to be located on the north side of Clinton St., between East Bennett and Cedar Sts., will be received by the Commissioner of Public Works at his office, Room 5, Municipal Bldg., until 11 o'clock a. m., July 5, 1912. Francis G. Ward, Commissioner.

BUFFALO.—Plans and drawings of the proposed Orchard Valley Country clubhouse have been completed by the architects, Messrs. Waterbury & Mann. The clubhouse will be located just across the State road. The estimated cost of the depicted clubhouse is \$35,000.

GLENVILLE.—Bids will be received by the Board of Education of School District No. 2, town of Glenville, until 6 o'clock p. m., July 8, 1912, for the erection and completion of a 4-room brick school building, according to the plans made for same by Worthy Niver, architect.

LOCKPORT.—The State Department of Education has given its tentative approval of the plans of Architect William Smith, of New York, for the enlargement of the high school at a cost of \$55,000. The Board of Education will advertise for bids in a few days.

LONG ISLAND CITY.—Steinway & Sons will erect a 4-story brick piano factory at the corner of Riker Ave. and Kouwenhoven St., Steinway, Long Island City, to cost \$60,000.

Lewis Thompson Company will erect a 2-story brick warehouse at corner of Steinway and Riker Aves. It will probably cost \$30,000; also Conrady & Stevens Co. are to build a 4-story brick apartment, to cost \$35,000, at the corner of Crescent and Clark Sts., Long Island City.

MOUNT VERNON.—Plans for new playhouse to be erected by the United Booking Office, of which F. F. Proctor is vice-president, have been completed. Estimated cost, \$400,000.

NEW YORK CITY.—Stumps & Langhoff have decided to erect 3-story commercial building and theatre at 253-257 W. 125th St. The theatre will be leased to Hurtig & Seamon.

NEW YORK CITY.—Architect G. A. Fitting, 2432 Broadway, has filed plans for two-story garage to be erected on Twelfth St. for H. R. Gillies, 566 W. 160th St.; cost, \$40,000.

Plans have been filed by Architect G. F. Pelham, 507 Fifth Ave., for nine-story apartment to be erected on Eighty-second St. for Merritt Ferguson Construction Co., 290 Convent Ave.; cost, \$225,000.

Architects Willauer, Shape & Brady, 156 Fifth Ave., have filed plans for 14 and 24-story office buildings to be erected on Forty-second St. for A. G. Candler, Atlanta, Ga.; cost, \$850,000.

Plans have been filed by Architect Harry T. Howell, 149th St. and Third Ave., for two five-story brick apartments to be erected on Park Ave., corner of 150th St., for Noble Gauss Can Co.; cost, \$62,000.

The Kreymborg Architectural Co., 1330 Wilkins Ave., has filed plans for two five-story brick apartments to be erected on Hoe Ave. for Ensign Improvement Co. (Joseph Damsey, 27 W. 114th St., president); cost, \$80,000.

Plans have been filed by the Architectural Co. for two five-story brick apartments to be erected on Aldus St. for Podgur Realty Co. (Robert Podgur, 935 Southern Blvd., president); cost, \$80,000.

Albert I. Sire has had plans prepared by Architect George

M. McCabe for the erection of a sixteen-story loft building at corner of Seventh Ave. and Twenty-seventh St. The structure is estimated to cost \$400,000.

The Freehold Construction Company will construct a twelve-story loft and office building at 7 W. Thirtieth St. It will be equipped with a fire tower and sprinkler system.

NEW YORK CITY.—Architect W. H. Paine, 55 West 150th St., has filed plans for an 8-story loft to be erected on 40th St., for St. John's Park Realty Co., 149 Broadway; cost \$92,500.

Plans have been filed by Architect T. W. Lamb, 501 Fifth Ave., for an 8-story store and loft to be erected on Beekman St., for C. Lane, 38 Fulton St.; cost \$75,000.

Architect G. Ajello, 1 West 34th St., has filed plans for a 12-story apartment house to be erected on West End Ave., cor. of 92d St., for A. C. & H. M. Hall Realty Co., 2875 Broadway; cost \$800,000.

NEW YORK CITY.—Architect S. E. Sage, 340 Madison Ave., has filed plans for alterations to 4-story apartment and store on 48th St., for J. Ward; cost \$35,000.

Plans have been filed by Architects G. & E. Blum, 505 Fifth Ave., for 11-story apartment house to be erected on Riverside Drive, corner of 150th St., for 150 Riverside Drive Co., 505 Fifth Ave.; cost \$600,000.

Architects Renwick, Aspinwall & Tucker, 320 Fifth Ave., have filed plans for 9-story warehouse to be erected on 20th St., for Baker & Williams, 519 West 20th St.; cost \$150,000.

Plans have been filed by Architect Arthur Boehmer, 178th St. and Arthur Ave., for a 5-story brick apartment to be erected on Decatur Ave., for John L. O'Hara, 2873 Webster Ave.; cost \$50,000.

The Kreymborg Architectural Co., 1330 Wilkins Ave., has filed plans for a 1-story brick store to be erected on Southern Blvd. for the Sykes Realty Co.; cost \$20,000.

Architect Franz Wolfgang, 535 East 177th St., has filed plans for three 5-story brick apartments to be erected on Webster Ave. corner of Ford St., for August Nelson, 193 W. 168th St.; cost \$100,000.

Plans have been filed by Architect Charles Schaefer, Jr., 401 Tremont Ave. for a 5-story brick apartment to be erected on 179th St. for Lillian Realty Co. (P. J. Cooney, 148th St. and 3rd Ave., president); cost \$45,000.

NEW YORK CITY.—Architects Sommerfeld & Steckler, 31 Union Sq., have filed plans for 6-story apartment to be erected on St. Nicholas Ave., corner of 122nd St., for Hancock Construction Company, 122nd St. & Manhattan Ave.; cost, \$125,000.

Plans have been filed by Architect C. B. Meyers, 1 Union Sq., West, for 12-story store and loft building to be erected on West 30th St. by Street Construction Co., 200 Broadway; cost, \$175,000.

NEW YORK CITY.—Architect A. Ullrich, 371 Fulton St., has filed plans for a 6-story factory to be erected on 4th St. for estate of Betsey A. Fay, 150 Nassau St.; cost, \$60,000.

Plans have been filed by Architects Moore & Landsiedel, 148th St. and 3d Ave., for a 5-story brick apartment to be erected on Bronx Park South for Fraser & Beran, 749A Macon St., Brooklyn; cost, \$30,000.

Architects Moore & Landsiedel, 148th St. and 3d Ave., have filed plans for 5-story brick apartment to be erected on Crotona Parkway for Fraser & Beran, 749A Macon St., Brooklyn; cost, \$30,000.

Plans have been filed by Architects Moore & Landsiedel, 148th St. and 3d Ave., for three 5-story brick apartments to be erected on Bronx Park South for Fraser & Beran; cost, \$75,000.

Architect Lloyd J. Phyfe, 949 Ogden Ave., has filed plans for 5-story brick apartment to be erected on Linl Ave., corner of 170th St. for Hillcrest Bldg. Co.; cost, \$45,000.



HERE'S A WIDE DIFFERENCE
between initial and final economy.
And when you specify a white cement, just take this into consideration. Atlas-White is not only absolutely non-staining, white in color, but is a powerful Portland Cement fulfilling the requirements of the standard specifications.

See if there is not economy in using Atlas-White,—

"The standard by which all other makes are measured"

THE ATLAS PORTLAND CEMENT CO.

30 BROAD ST., NEW YORK

Morris Bldg. Philadelphia, Pa. Corn Exch Bank Bldg Chicago, Ill.



THE SILENT SANITARY FLOOR



CHASE NATIONAL BANK, NEW YORK CITY
WALKER & GILLETTE, Architects

N. Y. BELTING & PACKING CO.,

Philadelphia

Boston

Pittsburgh

When a floor is NOISELESS, NON-SLIPPING, SANITARY and so DURABLE as to last indefinitely, it well deserves to be called the best.



Interlocking Rubber Tiling

possesses these important features and MANY OTHERS that you should know about.

Years of hard use in practical service have proven "Double Diamond" Interlocking Rubber Tiling the peer of all floors, demonstrating that it is the most inexpensive in the long run.

Architects and Owners are invited to write for illustrated catalogue "D" and samples.

91 Chambers Street, New York City

St. Louis

Chicago

San Francisco

Architect Albert I. Sire has had plans prepared by George M. McCabe, 96 5th Ave., for a 16-story loft at the corner of 7th Ave. and 27th St. to cost \$400,000.

The large plot on the corner of Park Ave. and 40th St. has been purchased by the recently organized corporation known as the Architects' Offices, for improvement with a 12 or 16-story building to be used as architects' offices. It will be erected on the co-operative plan.

SYRACUSE.—Architects Cram, Goodhue & Ferguson, of Boston, have been engaged to prepare plans for the church edifice to be erected for the Church of the Saviour in James St.

SYRACUSE.—Plans are now being prepared by Architects Mangin & Stedman, University Bld., for a pretentious 4-family apartment house which Sylvester Mariani is to build at 920 W. Genesee St. at an estimated cost of \$18,000.

The Frank C. Wenz estate has planned to erect a 3-story modernly appointed business block at 717 N. Salina St., plans for which have been prepared by Architect E. A. Howard.

SYRACUSE.—Directors of Masonic Temple Club are contemplating erection of combination commercial and fraternal building as a home for all Syracuse bodies. Tentative plans for a 10-story building to meet Masonic and business requirements have been prepared by Architects Taylor & Bonta, associated with Architectural Engineer E. H. Sackett.

NORTH CAROLINA

DURHAM.—Architect Charles M. Robinson, of Richmond, has prepared plans for new hotel to cost \$100,000, which will be erected by a corporation, of which Lee Paschel is president.

OHIO

LAKEWOOD.—Bids will be received at the office of the clerk of the Board of Education of the City School District at the High School Bldg. on Warren Road until 12 o'clock noon, July 16, for the erection of school building on Clifton Blvd., between Lakeland and Summit Aves., in accordance with the plans prepared by Chas. W. Hopkinson, architect, 900 Rose Bldg., Cleveland, Ohio.

LOCKLAND.—Architects Bausmith & Drainie, Gerke Bldg., Cincinnati, have on exhibition in the Builders and Traders' Exchange the plans for the proposed public school building for Lockland, to cost \$150,000, and ask for figures from contractors by July 8.

YOUNGSTOWN.—At a meeting of the Board of Directors of the P. & L. E. R. R. an appropriation of \$30,000 was authorized to erect the contemplated addition to the Y. M. C. A., in Haselton.

YOUNGSTOWN.—The new \$100,000 St. Elizabeth's Hospital will be built on the John M. Owen homestead in Belmont Ave. on land adjoining the present institution.

YOUNGSTOWN.—The plan of Charles F. Owsley, Dollar Bank Bldg., for the \$200,000 city building has been accepted by the Board of Control and General Improvements Committee.

OREGON

PORTLAND.—D. B. Hansen, 918 Yeon Bldg., will erect a two-story building at Fourth and Burnside Sts. at a cost of \$20,000. Plans by Architects Bridges & Webber, Hamilton Bldg.

The Rose City Club is having plans prepared for a clubhouse to be erected at the corner of E. Fifty-seventh St. and Sandy Blvd.

Architects McNaughton & Raymond, 606 Concord Bldg., are preparing the plans for Portland Trust Co. to alter and remodel the Marquam Bldg. at cost of about \$170,000.

Bids will be received up to July 10 by Architects Doyle, Patterson & Beach, Worcester Bldg., for the erection of the Multnomah County Library.

PENNSYLVANIA

APOLLO.—John T. Simpson, Newark, N. J., is taking bids on \$45,000 high school building for this place.

BALA.—H. E. Grau Company has plans posted for additions to the Presbyterian Home for Aged Couples. Architects Harris & Richards.

CHARLEVOL.—Architect A. P. Cooper, Uniontown, Pa., is preparing plans for \$70,000 school for Charlevoix.

CHESTER.—Swift & Co. have prepared plans for the erection of a \$40,000 office and storage building in Chester.

FRANKLIN.—County commissioners of Venango county will take bids until July 9 on remodeling courthouse from plans of E. E. Bailey Co., Oil City, Pa., to cost \$20,000.

HOMESTEAD.—Architect Adam Wickerham is preparing plans for Rodef Sholem synagogue to cost \$30,000.

PHILADELPHIA.—Architect Charles E. Oelschlager is preparing plans for the erection of a three-story building at Nos. 1304-06 Vine St. for Arthur F. Schneider.

PHILADELPHIA.—Architect George L. Lovatt, 416 Walnut St., is preparing plans for a Catholic church, rectory and parochial school for the new parish to be located at 23rd and Midlin Sts.

The Board of City Trusts will expend \$154,800 in the erection of 36 2-story semi-detached dwellings on both sides of Lambert St., south of Porter, for the Stephen Girard estate.

The dwellings Nos. 1712 to 1716 DeLancey Place, which were recently purchased by Beulah E. Jay, are about to be demolished and the site used for the erection of a 3-story building, for the Metropolitan Dramatic School. The building will cost \$25,000. Contractors are estimating on the building.

PHILADELPHIA.—Archbishop Prendergast has purchased 2½-acre plot at Township line and Torresdale Ave., where a new Catholic church will be erected.

An apartment house exclusively for bachelors is shortly to be erected at 61st and Ludlow Sts. for William C. Smith. The plans have been approved by the building bureau and call for a 2-story stone structure having 38 apartments. It will cost \$40,000. H. E. D. Hoff is the architect.

PENNSYLVANIA.—The old residence and plot, Nos. 2529 to 2549 North Broad St., have been purchased by the E. A. Wright Banknote Company. The purchasers will erect a concrete and brick factory building, to cost upwards of \$100,000.

Fletcher, McNally & Bro., who own the old residence, Nos. 5526-28-30 Germantown Ave., are having the property demolished preparatory to erecting a row of 2-story stores and offices. The cost will be \$30,000.

The Philadelphia Textile Machinery Company is having plans prepared for a group of buildings on a six-acre tract recently purchased at Sixth St. and Tabor road.

PITCAIRN.—Architect J. H. Phillips, McKees Rocks, is taking bids on \$25,000 clubhouse for Order of Eagles.

PITTSBURGH.—Allegheny County Commissioners and City Council have appointed Cass Gilbert, of New York, supervising architect of contest for plans for new joint county building and city hall to cost \$3,000,000. Contest will be limited to architects who have been residents of Allegheny county since January 1, 1912.

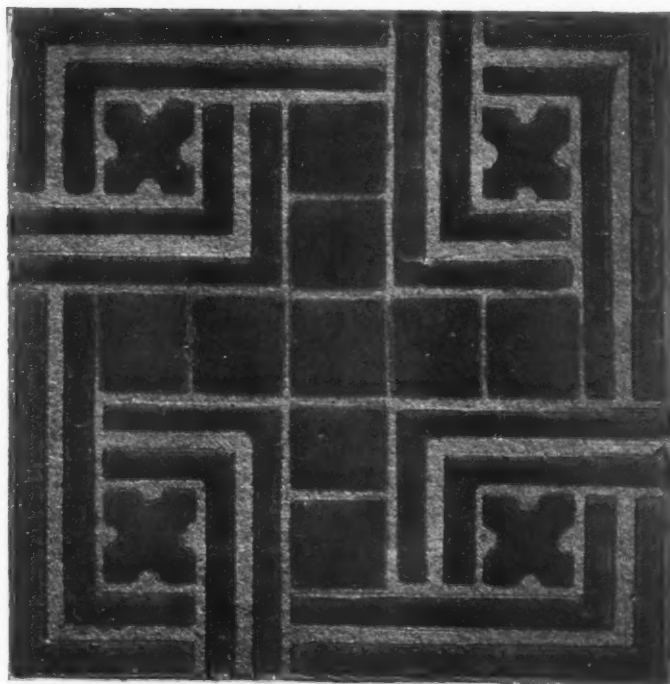
Republic Chemical Co. has purchased 6.7 acres on Neville Island and have plans for a new plant to cost \$250,000. Bids will be asked for at once. Offices are in People's Bank Bldg., and care Adolph Kern, 25 Broad St., New York City.

SOUTH DAKOTA

HOT SPRINGS.—A stone residence will be erected by Rev. F. X. Heusler from plans by E. J. Donahue, architect, Gillilan Bldg.

GRUEBY NON-SLIP NOISELESS TILE

(PATENT APPLIED FOR)



The noiseless feature of this tile is due to the series of depressions between the non-slip ridges or raised lines in which air is cushioned when the foot falls upon them and is supported by the ridges. None of the clatter or "slap," "slap" sounds which result from one flat surface coming in violent contact with another, as in the case of a marble floor, is heard where

Grueby Non-Slip Noiseless Tile

are used.

If we are permitted to send you a sample tile, your examination will satisfy you in this regard.

Address—GRUEBY FAIENCE AND TILE CO.
K and First Streets : : BOSTON, MASS.

WM. MOORE CO.
305 Real Estate Trust Building
Philadelphia, Pa.

Representatives
H. A. WALTERS
1153 Peoples Gas Building
Chicago, Ill.

CARL ENOS NASH
705 Auditorium Building
Los Angeles, Cal.

TENNESSEE

JOHNSON CITY.—W. W. Remine and J. W. Franklin will begin at once the erection of a \$12,000 business block opposite the site selected for the new passenger station.

Guy L. Smith, Stokes Buchanan and George O'Brien, who recently purchased Tullia Springs, are making preparations to build a modern hotel at the springs. The springs are two miles east of the city and will be on the Memphis to Bristol pike.

MEMPHIS.—On July 1 the Illinois Central Railroad will begin the actual work preliminary to the building of the new union depot at Main St. and Calhoun Ave. The depot and terminals will represent an expenditure of between \$2,000,000 and \$3,000,000.

VIRGINIA

CHARLOTTESVILLE.—Plans have been drawn for the alumni hall of the University of Virginia to cost about \$15,000. The Building Committee consists of the President of the University, the President of the Colonnade Club, together with R. Colston Blackford, of Lynchburg; Thomas P. Bryan, of Richmond, and Dr. William A. Lambeth, of the University.

NORFOLK.—Plans for a 3-story addition to the big department store of Miller, Rhoads & Swartz, are being prepared by Architect B. F. Mitchell, Seaboard Bank Bldg. The new addition will front on Bank St.

NORFOLK.—Architects Ferguson, Calrow & Taylor, Law Bldg., have sent out plans for the erection of an office and store building on Commercial Pl. for the Southern Produce Company. The building will be 3 stories high, with a large basement.

PORTSMOUTH.—The congregation of St. Paul's Catholic Church has decided to build a parochial residence costing approximately \$15,000 on the site of the present Brothers' home, adjoining the church on the east.

SPOKANE.—School Architect Sweatt, Peyton Bldg., will prepare plans for 1-story brick addition to school on Bryant grounds, between Maple and Ash Sts.; estimated cost, \$20,000.

WASHINGTON

BELLINGHAM.—Architect C. A. Breitung, Walker Bldg., has announced that plans for the Byron Hotel are completed and the work of construction will shortly commence.

SEATTLE.—Architects Gaggling & Gaggling, Syracuse, N. Y., have prepared plans for 42-story building to be erected on Second Ave. and Gesler Way for B. L. Smith. Cost, \$1,350,000.

Plans have been prepared by Architects White & Warren for 8-story office building to be erected on Tenth and E. Spring St. for the Madison Sq. Bldg. Co. Cost, \$100,000.

Architects Howells & Stokes, White Bldg., have prepared plans for hotel building to be erected on University tract for the Metropolitan Bldg. Co. Cost, \$500,000.

Plans have been prepared by Architects Kingsley & Eastman, Empire Bldg., for manufacturing plant to be erected for Pacific Tin Plate Co. Cost, \$3,000,000.

Architect J. Graham has prepared plans for 8-story hotel to be erected at 610 Jackson St. for N. W. Land & Dev. Co. Cost, \$200,000.

SEATTLE.—Architect William Kingsley, Empire Bldg., has completed the preliminary plans for the new Times Bldg. to be erected between Fourth and Fifth Aves. on Stewart St. at a cost of \$500,000.

The plans prepared by Edgar Blair, school architect, for

the proposed school building to be erected at Stevens St. and Fifty-ninth Ave., S. W., Alki, have been approved and bids for same will shortly be issued. The building will be erected at a cost of \$65,000.

Architect C. F. Champney, Henry Bldg., has announced the plans for the Y. W. C. A. to be erected on the corner of Fifth and Seneca practically completed. The plans call for an eight-story structure to cost \$300,000.

SPOKANE.—School District No. 50, covering territory on Five Mile prairie, will construct a new \$10,000 school-house, for which J. T. Levesque & Co., of Spokane, are drawing the plans.

SPOKANE.—The local lodge of Eagles will erect on east side of Madison St. a three-story brick building. Cost of building, about \$30,000.

TACOMA.—Plans are being prepared by Architects Bullard & Hill, Provident Bldg., for a three-story building to be erected for the Matthaei Bakery Co. at Sprague and Seventh Sts.; cost, \$10,000. Plans will be ready for bids shortly.

The Rathskeller Café will be erected in the National Realty Bldg. Heath & Gove, architects, National Realty Bldg. Bids will be called shortly.

WEST VIRGINIA

WARWOOD.—J. McCullagh, General Manager of the Warwood Land Company, will erect this summer a fine residence on "The Terrace" costing about \$12,000. It is to be one of the most beautiful homes in this section.

WISCONSIN

MILWAUKEE.—Architect Anton Dohman, 14 Metropolitan Block, is preparing plans for a new Greek Orthodox church to be erected at 664 Broadway. Cost \$50,000.

Saxe Bros. are contemplating improvements at 216 Grand Ave. to the amount of \$75,000. C. F. Ringer, 106 Mason St., is supervising architect.

The Rundle Manufacturing Co. is contemplating the erection of an addition to its manufacturing plant in Layton Park. F. M. Emerson, engineer, is planning the addition. Cost estimated at \$15,000.

The Moose Lodge is considering the erection of a clubhouse and temple to cost \$30,000.

Bids will be received by Architect Stanley F. Kadow, 988 Kinnickinnic Ave., for a 2-story brick machine and blacksmith shop, for the Thomas Furnace Co. Estimated cost, \$10,000.

CANADA

TORONTO.—The Canadian Pacific and the Canadian Northern will erect a joint depot at Toronto at a cost of \$2,000,000.

VANCOUVER, B. C.—Plans are being prepared by Architects Stuart, White & Peters, Metropolitan Bldg., for the building to be erected by a Chinese syndicate. Bids for the work will be taken from selected contractors only.

Architects Somerville & Putnam will let contracts shortly for the proposed three-story building to be erected for the Merchants Bank of Canada on the site of the present premises.

Architect F. H. Perkins, of this city, has prepared plans for the erection of a \$100,000 six-story apartment building at the corner of Jackson Ave. and Hastings St. for G. Ferra, Italian consul.

Plans have been prepared for a five-story dwelling for Brown & Howey. The building will cost approximately \$125,000.

Alphabetical List of Advertisers

Ads marked E. O. W. appear every other week.
Ads marked O. A. M. appear once a month.

A		L	
Adler, The J. Gilding Co. (o.a.m.)	24	Lee Marble Works (o.a.m.)	—
American Auxiliary Heating Co.	30	Lehigh Portland Cement Co.	22
American Blower Co.	2	Loomis-Manning Filter Co.	22
American Luxfer Prism Co.	2	Lufkin Rule Co.	21
American Mason Safety Tread Co.	22		
American Radiator Co. (e.o.w.)	35	M	
American Sheet & Tin Plate Co. (o.a.m.)	38	McCray Refrigerator Co.	32
American Steel & Wire Co.	38	Maddock's, Thomas, Sons Co. (e.o.w.)	39
Art Metal Construction Co.	28	Marsh Valve Co.	29
Artesian Well & Supply Co. (e.o.w.)	30	Merchant & Evans Co. (e.o.w.)	29
Associated Builders Catalog Co.	28	Moss Photo Engraving Co.	33
Atlantic Terra Cotta Co. (e.o.w.)	15	Mueller, H., Mfg. Co. (e.o.w.)	33
Atlas Paint Co.	49	Mullins Co., The W. H.	33
Atlas Portland Cement Co. (e.o.w.)	15	Murphy Varnish Co. (o.a.m.)	—
Automatic Refrigerating Co.	23		
Ayer & Lord Tie Co. (e.o.w.)	23	N	
B		National Fire Proofing Co.	21
Barrett Mfg. Co.	22	National Lead Co.	56
Berger Mfg. Co.	29	National Roofing Tile Co.	22
Bird, F. W., & Son (o.a.m.)	36	National Tube Co.	48
Boyle, John & Co.	23	National X-Ray Reflector Co. (e.o.w.)	38
Bradford Pressed Brick Co.	23	Never-Split Seat Co.	38
C		New York Architectural Terra-Cotta Co.	26
Cabot, Samuel, Inc.	9	New York Belting & Packing Co. (e.o.w.)	15
Cahill Iron Works.	28	Northern Pine Mfrs. Assn. (e.o.w.)	55
Campbell, Walter M.	20	Northwestern Terra Cotta Co.	27
Carpenter, Geo. B., & Co.	30	O	
Carier White Lead Co.	30	Ohio Blower Co.	24
Central Tube Co.	60	Okonite Co. (e.o.w.)	9
Clinton Wire Cloth Co.	24	Otis Elevator Co. (e.o.w.)	—
Crow, James B., & Sons (e.o.w.)	43	P	
Concealed Transom Lift Co.	33	Peaslee-Gaulbert Co.	22
Condron Co.	22	Peerless Rubber Mfg. Co. (o.a.m.)	42
Corbin, P. & F. (e.o.w.)	33	Pierce, Butler & Pierce Mfg. Co. (e.o.w.)	37
Corrugated Bar Co. (e.o.w.)	43	Pomeroy, S. H., Co., Inc. (o.a.m.)	19
Crittall Casement Co.	27	Pray, John H., & Sons Co. (o.a.m.)	47
Cudell, F. E. (e.o.w.)	22	Prescott, J. B., & Son	47
Cutler Mail Chute Co.	22	Pridmore, J. E. O.	52
D		Pullman Motor Car Co.	34
Dahlquist Mfg. Co. (e.o.w.)	23	Puritan Cordage Mills (e.o.w.)	34
Darby & Sons Co., Inc., Edw.	26	R	
Decorators Supply Co. (e.o.w.)	26	Reliance Ball Bearing Door Hanger Co. (o.a.m.)	24
Deming Co., The	22	Richards-Wilcox Mfg. Co. (e.o.w.)	28
Derby Desk Co.	24	Roebling Construction Co.	40
Detroit Show Case Co. (o.a.m.)	13	Royal Ventilator Co.	40
Detroit Steel Products Co.	25	Russell & Erwin Mfg. Co.	—
Devoe F. W., & C. T. Reynolds Co.	31	Ruud Mfg. Co. (e.o.w.)	20
Dexter Bros. Co.	26	S	
Dixon Crucible Co., Jos.	31	Samson Cordage Works.	60
Droué, G., Co. (e.o.w.)	26	Sargent & Company.	45
Dunning, W. D.	26	Schreiber & Sons Co., The L.	9
E		Silver Lake Co.	9
Elevator Supply and Repair Co.	60	Smith, H. B., Co. (o.a.m.)	20
Erkins Studios, The	21	Society of Beaux-Arts Architects	20
Estey Organ Co. (e.o.w.)	32	Standard Varnish Works (e.o.w.)	22
Eureka Fire Hose Co. (e.o.w.)	32	Stanley & Patterson	29
F		Stanley Works, The (e.o.w.)	29
Federal Terra Cotta Co. (o.a.m.)	25	Stewart & Clark Mfg. Co.	11
Fischer-Sweeney Bronze Co.	23	Sturtevant Co., B. F.	9
Fiske & Co.	23	Sun Burst Prism Co.	20
French & Co., Samuel H.	23	Syracuse University	20
G		T	
Galloway Terra Cotta Co.	21	Taylor J. W.	20
General Electric Co. (e.o.w.)	21	Taylor, N. & G. Co. (o.a.m.)	51
General Fire Extinguisher Co.	19	Thorp Fire Proof Door Co.	46
General Fireproofing Co.	30-44	Tiffany Studios	35
Globe Ventilator Co.	21	Trenton Potteries Co.	57-58
Gorham Co.	21	Trussed Concrete Steel Co.	23
Great Western Pottery Co.	17	Turner Construction Co.	23
Grueby Faience and Tile Co.	22	U	
Gurney Heater Mfg. Co.	22	U. S. Gypsum Co.	21
H		U. S. Mineral Wool Co.	41
Hart & Hegeman Mfg. Co., The	29	U. S. Radiator Corporation	20
Heaton, Butler & Bayne	37	University of Illinois	20
Heinicke, H. R.	28	University of Michigan	20
Hess Warming & Ventilating Co. (e.o.w.)	23	University of Pennsylvania	20
Higgins & Co., Chas. M. (e.o.w.)	23	V	
Holtzer Cabot Electric Co.	60	Vaile & Young	22
Hough, Wm. B., Co.	25	W	
Hunt, Robert W., & Co.	25	Wadsworth, Howland & Co., Inc. (o.a.m.)	27
Hutchings Organ Co.	25	Warner Co., Charles (o.a.m.)	26
Hydrex Felt & Engineering Co.	25	Washington University	20
I		Weisz, G. A.	20
Imperial Brass Mfg. Co.	22	Western Electric Co. (e.o.w.)	39
Industrial Engineering	36	White Enamel Refrigerator Co. (e.o.w.)	21
International Window Mfg. Co.	22	White Fireproof Construction Co.	23
J		Winkle Terra Cotta Co. (o.a.m.)	22
Jackson, Wm. H., Co. (e.o.w.)	30	Wolfe & Misner (e.o.w.)	24
Jacobson & Co.	60	Wolff, L., Mfg. Co.	53
Jenkins Bros.	31-41	Wood-Mosaic Co. (e.o.w.)	—
John-Manville Co., H. W.	23	Y	
Johnson, S. C., & Son	23	Yellow Pine Mfrs. Ass'n. (e.o.w.)	50
K			
Kahn System of Reinforced Concrete	57-58		
Kawneer Mfg. Co.	22		
Keasbey & Mattison Co. (e.o.w.)	25		
Kelly, Thos., & Bros. (e.o.w.)	25		
Kennedy, David, Inc. (e.o.w.)	27		
Kewanee Boiler Co.	24		
Kewaunee Mfg. Co.	24		
Kimball Co., W. W. (e.o.w.)	24		

Ideal Floor Covering For Cement Floors

Linoleum secured by waterproof glue to cement floors can be furnished in plain colors or in inlaid effects.

Cork Carpet in plain colors.

Elastic, Noiseless, Durable.

Is practical for rooms, halls, and particularly adapted to public buildings.

Should be placed on floors under pressure and best results obtained only by employing skilled workmen.

Following are examples of our work:

Brookline Public Library. R. Clapton Sturgis, Esq., Architect.

Marshall Office Building, Boston. C. H. Blackall, Esq., Architect.

Boston State Hospital, Boston. Messrs. Kendall, Taylor & Co., Architects.

WE SOLICIT INQUIRIES AND CORRESPONDENCE

Quality samples specially prepared for architects and builders mailed on application.

JOHN H. PRAY & SONS CO.

Floor Coverings—Wholesale and Retail

646-658 Washington St., Boston, Mass.

Have been continuously in this business for 93 years.

On application we will mail a small book on this subject.



If It's a Ventilator—It's the "Globe"

The "Globe" Ventilator is not a new ventilator that has just come on the market. It is the recognized ventilator of many years since which time millions have been specified by architects and used in every type of building throughout the country.

The "Globe" Ventilators are known as the silent type, and are guaranteed to be absolutely storm-proof.

Let us send you a copy of "The Globe Ventilator" catalog. It is full of information. Better write for one—right now.

Globe Ventilator Company
Troy, New York

University of Pennsylvania Courses in Architecture

1. A four-year course, leading to the degree of B.S. in Arch. An option in architectural engineering may be elected.
2. Graduate courses of one year permitting specialization in design, construction or history; leading to the degree of M.S. in Arch.
3. A Special two-year course for qualified draftsmen with options in design or construction. Leading to a professional certificate.

For catalogue giving complete information regarding requirements of admission, advanced standing, summer school and atelier work, fellowships and scholarships, and for illustrated year book, etc., address DEAN OF THE COLLEGE, University of Pennsylvania, Philadelphia, Pa.

School of Architecture of Harvard University

Professional course for graduates of colleges leading to degree of Master in Architecture.

Course for special advanced students not having college degree, but at least 21 years of age, with office experience, leading to certificate.

DESIGN. Prof. E. J. A. DUQUESNE.
Grand Prix de Rome.

HISTORY. Prof. H. L. Warren, A.M.,
F.A.I.A.

CONSTRUCTION. Prof. C. W. Killam,
Assoc. M. Am. Soc. C.E.

DRAWING. Mr. H. D. Murphy
Mr. H. B. Warren.

Ten other lecturers and instructors.

For circulars and other information apply to Prof. H. L. Warren, Chairman of the Council of the School of Architecture, Harvard University, Cambridge, Mass.

A Free Course in Architectural Design

conducted by

The Society of Beaux Arts Architects

Seventeenth Season—Aug. to July, inclusive

The Course is open to draughtsmen and students of architectural schools in any city of the United States or Canada, modeled on the principles of instruction at the Ecole des Beaux Arts in Paris. It consists of thirty-five (35) competitions divided into two classes supplemented by prize competitions, to enter any of which an annual Registration Fee of \$2.00 is required. Address applications for circulars of information and calendars for season 1911-12 to:

William Emerson, Chairman,
Committee on Education,
281 Fifth Avenue, New York City.

University of Illinois

Department of Architecture

Four-year courses in Architecture and in Architectural Engineering. (Degrees B. S. in Arch. and B. S. in Arch. Eng.) Traveling fellowships limited to Illinois graduates.

Special facilities for graduate work in Design and Construction. (Degrees M. S. in Arch. and M. S. in Arch. Eng.) Scholarships and Fellowships available.

Advanced standing by transfer of credit from other approved institutions.

Illustrated Year Book free on application. For information address Department of Architecture.

UNIVERSITY OF MICHIGAN

DEPARTMENT OF ARCHITECTURE

Four-year courses in Architecture and Architectural Engineering. Two-year course for special students. For information, address Department of Architecture, University of Michigan, Ann Arbor, Michigan.

WASHINGTON UNIVERSITY ST. LOUIS, MISSOURI

SCHOOL OF ARCHITECTURE

Four-year course in Architecture with degree of B.S. Two-year course in Design with certificate. Course in Architectural Engineering. Special students received. For further information address JOHN BEVERLEY ROBINSON, Professor of Architecture.

Rendering of Perspectives in any Medium

Drawing of Perspectives

G. A. Weisz, 1123 Broadway, N.Y.

Telephone, Madison Sq. 8633

COLLEGE OF FINE ARTS SYRACUSE UNIVERSITY

Department of Architecture

Four-year course in Architecture leading to the degree of B.A.R. Special two-year course for students who have had two or more years of office experience. For bulletin and information, address Registrar, Syracuse University, Syracuse, N. Y.

J. W. TAYLOR'S Photograph Series of American Architecture

Harrison 3897

324 Dearborn Street, CHICAGO, ILL.

PERSPECTIVE RENDERED

in Monotone, Color, or Pen and Ink

THOS. S. ROCKRICE, Architect
41 East 19th Street New York City

PERSPECTIVES RENDERED

In Pen and Ink and Water Color

WALTER M. CAMPBELL
8 Beacon Street, Boston, Mass.

RATES for Classified Advertising

Positions Wanted, 50 cents for 50 words or less; Help Wanted, Special Notices, Competitions, Proposals, Etc., 20 cents a line, minimum four lines. Copy received until 12 m. Monday. Remittance should accompany copy.

POSITIONS WANTED

GRADUATE CIVIL ENGINEER, thoroughly proficient in structural design and building construction, heating and ventilation, working drawings, specifications, estimates and contracts, good executive, desires a working interest with architectural firm, or general contractor, having sufficient business to warrant the employment of an all-around, high-grade man. Address 83F, care American Architect, New York.

(1887 & tr)

WANTED—By competent, rapid and all-around draughtsman, good designer, detailer, especially good on prospectives, rendering water-color, pencil and pen and ink, twelve years' experience, desires engagement with a busy architect, offering opportunity for excellent workmanship and chance for advancement; South or West preferred. Address 5C, care of American Architect.

(1905-6)

BUILDING SUPERINTENDENT, experienced and highly qualified to represent architect on highest grade of work. At present employed, desires change; salary, \$5,000 to \$5,000, according to responsibility expected. Address 5D, care American Architect.

(1905-6)

ARCHITECTURAL DRAUGHTSMAN, eight years' practical experience in general office work, desires position in N. Y. office or immediate vicinity. Best references. Address 5E, care American Architect.

(1905-6)

KILLED ARCHITECTURAL DRAUGHTSMAN, graduate German government technical school, eighteen years varied experience, desires a position with construction firm or in an architect's office. Excellent references. Address Jos. C. Kanfhold, 849 Frangley Ave., Lancaster, Pa.

(1905-6)

SOUTH AMERICA, Beaux Arts Man, French, married, 31 years old, strong in construction, wishes to secure position with prospects in South America. Perspective rendering strictly first class. Can handle buildings of any description or size. Best references. Answer 6E, care American Architect.

(1906-7)

STRUCTURAL ENGINEER, with fifteen years' experience, wishes position with architect, either part or all the time. Address 6B, care American Architect.

(1906 & T F)

TECHNICAL GRADUATE desires position as draughtsman or superintendent for architect or contractor. Good tracer, letterer, some knowledge of detailing and of steel construction, experienced in reinforced concrete. Will go any place where ambition and industry will be appreciated. Good references. Address 5G, care American Architect.

(1905-6)

ARCHITECTURAL DRAUGHTSMAN, eight years' experience, desires position; is practical, accurate, competent on complete working drawings from sketches, good at design and full size detail work; salary desired, \$25. Address 6A, care American Architect.

(1906-7)

HELP WANTED

ARCHITECTURAL DESIGNERS, 2; \$35 per week; location, Wisconsin. Manager for Marble Factory with experience and ability to estimate, buy, meet clients, run the shop and get out the working or setting drawings; salary, \$3,000; location, Canada. Marble Draftsman, design and detail for interior and exterior marble work; salary, \$35 per week; location, East. Several Architectural Draftsmen for heavy building work, \$25 per week; location, Central. New positions are coming in every day. Competent men with experience are needed for positions in all parts of the country. Special offer to men who are graduates in architecture. 6 Ornamental Iron Draftsmen for companies in the Middle West; salary, \$30-\$35 per week. The Engineering Agency, Inc., 20 years' experience handling architectural and building positions, Monadnock Building, Chicago.

WANTED—First-class general draftsman; one especially capable of making details from start to finish; permanent position to right man. Address 6D, care American Architect.

(1906)

WANTED—A first-class, sober, general draughtsman. One especially strong on designing, and capable of making working drawings and details from start to finish without assistance. Perspectives and coloring not essential. Permanent position with percentage of profits to the right man. Send samples of design, salary wanted and professional history. J. de Bruyn Kops, Savannah, Ga.

(1905-6-7)

(Classified ads continued on next page)



GALLOWAY GARDEN POTTERY

Send for catalogue of Flower Pots, Boxes, Vases, Fountains, Benches, Sundials, Etc.
Estimates furnished on special work.

GALLOWAY TERRA-COTTA CO.
3224 Walnut Street, - - Philadelphia

LUFKIN

MEASURING TAPES

For work where accurate measurements are essential. They make good in the severest test.

THE LUFKIN RULE CO. Saginaw, Mich., U.S.A.
New York, London, Eng., Windsor, Can.



DIXON'S SILICA-GRAPHITE PAINT

The Most Tenacious Protector

for all structural steel or other metal work. Eminent architects and engineers all over the world have specified its use on buildings, bridges, etc., because they knew its value. Made in ONE GRADE only.
Our Paint Department will cheerfully send long service records and appropriate paint literature, if requested.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

Mineral Wool

FIRE, SOUND and VERMIN PROOF **INSULATOR**
SAMPLES AND CIRCULARS FREE
U. S. MINERAL WOOL CO. 140 Cedar St. NEW YORK

Garden Furniture

Our new catalogue (Architects' Edition) is just off the press. We will be very glad to mail you one.

Kindly address

THE ERKINS STUDIOS

The largest manufacturers of Ornamental Stone
229 Lexington Avenue, New York. Factory, Astoria, L. I.
New York Selling Agents, Ricceri Florentine Terra Cotta.

CONTRACTS AND SPECIFICATIONS

By James C. Plant, Superintendent of Computing Division, Office of Supervising Architect, Washington, D. C. A working manual of forms and methods for Architect, Contractors and Owners. The duties and responsibilities of each are fully explained, with specific instances to illustrate same. Forms of public and private contracts, specifications, bonds, etc., are given. 130 pp., fully illus. Cloth binding. Price, \$1.00.

THE AMERICAN ARCHITECT, 50 Union Square, New York

National Fire Proofing Co., Manufacturers of Terra Cotta Hollow Tile

Contractors for Construction Fireproof Buildings
You cannot be sure that you have either the best or the cheapest fireproofing unless you give us an opportunity to figure on your plans.

Pittsburgh, - - - Fulton Bldg.	Canton, - - - City National Bank Bldg.
New York, - - - Flat Iron Bldg.	Cincinnati, - - - Union Trust Bldg.
Chicago, Commercial National Bank Bldg.	Columbus, - - - West Broad Street
Detroit, - - - Penobscot Bldg.	Los Angeles, - - - Lumber Exchange.
Boston, - - - John Hancock Bldg.	Los Angeles, - - - Central Bldg.
Philadelphia, - - - Land Title Bldg.	Toronto, Can. - - - Traders Bank Bldg.
Washington, - - - Washington, - - - Colorado Bldg.	

(Classified ads continued from preceding page)

COMPETITION

A building for the Young Women's Christian Association of Harrisburg, Pa., to cost \$80,000, will be the subject of a competition to be conducted under the advice and direction of Professor Warren P. Laird.

Three architects will be especially invited and paid and two prize fees awarded among architects admitted from the open field, restricted to five and to local practitioners. Drawings will be as few and simple as possible.

Blanks for use by those interested may be secured by addressing the adviser at the University of Pennsylvania, Philadelphia, Pa.

(1904-5-6)

SPECIAL NOTICE

PARTNERSHIP—New York architect wishes to form partnership with young man of business ability and integrity; \$200,000 work to begin on. Five-thousand-dollar investment in the business absolutely necessary. Splendid chance for a young man to connect with a man of ability, experience and connections. Address "B," care American Architect. (1906)

EXPERIENCED, ENERGETIC ARCHITECT, thirty years old, proficient in all branches, four years' private practice in large Eastern city, wishes to communicate with an older architect of established reputation and practice in good location, who desires a proficient junior partner. Immediate income would not count so much as prospect for the future. Would start as employee if necessary. Highest references will be given and required. Address 6C, care American Architect. (1906)

PROPOSALS

Treasury Department, Office of the Supervising Architect, Washington, D. C. June 21, 1912.—Sealed Proposals will be received in this office until 3 o'clock P. M. on the 24 day of August, 1912, and then opened, for the construction (including plumbing, heating apparatus, gas piping, electric conduits and wiring, and interior lighting fixtures) of the extension, remodeling, etc., of the United States Post Office and Court House at Charlotte, N. C. The extension is two stories and basement, stone faced, of fireproof construction (except roof), and has a ground area of approximately 12,600 square feet. Drawings and specifications may be obtained from the custodian of site at Charlotte, N. C., or at this office, at the discretion of the Supervising Architect.

JAMES KNOX TAYLOR, Supervising Architect.
(1905-6)

EXPULSO DEVORO

Ejecto WAVELINE

The Great Western Pottery Co., Tiffin, O. Kokomo, Ind.

These Trade Marks on any Water Closet Bowl or Tank are a guarantee of quality.

The Bohn Stands Alone

In refrigerators there are no others in the same class. To be equipped with the Bohn System Refrigerators is to have the very best that can be made. The many reasons why will be found in 1910 catalogue

White Enamel Refrigerator Co.

Factory, St. Paul, Minn.

New York, 59 W. 42nd St. 4

GARAGES COUNTRY and SUBURBAN

The first comprehensive work on this subject ever published. One hundred illustrations. An invaluable book for the Architect, Owner, Builder, or Driver. 96 pages, cloth, 9 x 12 inches. Price \$4.00 postpaid.

BOOK DEPARTMENT
THE AMERICAN ARCHITECT
50 Union Square, New York

Treasury Department, Office of the Supervising Architect, Washington, D. C. June 24, 1912.—Sealed proposals will be received in this office until 3 o'clock p. m. on the 5th day of August, 1912, and then opened for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring, interior lighting fixtures, and approaches), of the United States Post Office at Marshall, Mo.

The building is one story and basement and has a ground area of approximately 4,900 square feet; fireproof first floor, stone facing and tin roof. Drawings and specifications may be obtained from the custodian of site at Marshall, Mo., or at this office, at the discretion of the Supervising Architect.

JAMES KNOX TAYLOR, Supervising Architect. (1906-7)

MASON SAFETY TREADS

For Stairs, Wood, Iron, Marble or Cement
New or Old

HUNDREDS OF THOUSANDS IN USE

American Mason Safety Tread Co., Boston



VAILE & YOUNG'S Patent Metallic Skylights

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

"The Barrett Specification."

For laying durable and economical roofs of Coal Tar Pitch, Tarred Felt and Slag or Gravel. Every architect needs it in his files. Free on request.

BARRETT MANUFACTURING COMPANY
New York, Chicago, Philadelphia, Boston, St. Louis, Cleveland, Pittsburgh, Cincinnati, Kansas City, Minneapolis, New Orleans, Seattle, London, Eng.



GURNEY HEATERS

FOR STEAM AND HOT WATER GIVE COMPLETE SATISFACTION

NY BRANCH 12 EAST 42ND ST. NEW YORK
GURNEY HEATER MFG. COMPANY BOSTON, MASS.
HOME OFFICE 188-200 FRANKLIN ST. BOSTON

Pee Gee Flatkoatt

is the right wall-finish from every point of view, for every kind of building.

"Modern Method of Finishing Walls"

is a good, practical wall-finishing book. Sent Free.
PEASLEE-GAULBERT CO., Inc., 407 W. Main St., Louisville, Ky.

TO BE SATISFACTORY

A Roof must, first of all, be weather-proof. That goes without saying. Tile, Slate or any other material not meeting this requirement is a failure.

NATIONAL INTERLOCKING ROOFING TILE

is absolutely weather-proof when properly laid and does not depend on the under-lying felt.

American architects, contractors and prospective builders are invited to write us for Catalogues, Samples and Prices on Natural Reds and Green Glazes.

The National Roofing Tile Co. - - - - Lima, Ohio

It Will Pay You to Investigate the

INGHAM SHOWER MIXER

Maximum Comfort, Safety and Economy. Write for free illustrated descriptive booklet "A Good Mixer."

IMPERIAL BRASS MANUFACTURING COMPANY
Dept. 174, 1222 W. Harrison Street, Chicago

KAWNEER Booklet No. 3 shows by full size details and photographs, various bars, sash and mouldings, together with a plain description of each.

Send for the booklet and learn about **Kawneer** Store Fronts. **KAWNEER** registered. **KAWNEER MANUFACTURING CO.**

Factory and General Offices: NILES, MICH. Branches in all principal cities.

STANLEY & PATTERSON, Inc.

Manufacturers of General Electrical Supplies of the highest possible efficiency and quality

23 Murray St.—27 Warren St., NEW YORK
(FROM BLOCK TO BLOCK)

LOOMIS FILTERS

Improved System Simple and Effective
LOOMIS-MANNING DISTRIBUTING FILTER CO.

Main Office:
826 Land Title Building, Broad and Chestnut Streets, Philadelphia
Boston Buffalo New York Baltimore Washington Chicago

CUTLER MAIL CHUTES

"The Cheapest Modern Improvement."

CUTLER MAIL CHUTE CO.
ROCHESTER, N. Y.

PATENTED

DEMING POWER PUMPS

Complete Water Supply Systems

THE DEMING COMPANY, Salem, Ohio
HAND AND POWER PUMPS FOR ALL USES
Hendon & Hubbell, Chicago, General Western Agents

The Winkle Terra Cotta Company

MANUFACTURERS OF

ARCHITECTURAL TERRA COTTA

In All Colors

Office: Rooms 502 and 503, Century Building
ST. LOUIS, MO.

Works: Cheltenham, St. Louis

Principles and Practice of Plumbing

By J. J. COSGROVE

Of great value to the Architect, as an exact and systematic statement of the underlying principles in Plumbing Practice. 278 pages, 169 original illustrations, 69 tables. Price \$3.00.

Well worth your serious consideration.

BOOK DEPARTMENT
THE AMERICAN ARCHITECT
50 Union Square, New York


HIGGINS'

DRAWING INKS
ETERNAL WRITING INK
ENGROSSING INK
TAURINE MUCILAGE
PHOTO-MOUNTER PASTE
DRAWING-BOARD PASTE
LIQUID PASTE
OFFICE PASTE
VEGETABLE GLUE, Etc.

ARE THE FINEST AND BEST GOODS OF THEIR KIND
Emancipate yourself from the use of corrosive and ill-smelling inks and adhesives and adopt the **Higgins Inks and Adhesives**. They will be a revelation to you, they are so sweet, clean and well put up, and withal so efficient. They are specially adapted for use in Architects' and Engineers' Offices, as well as for general home and office use.

AT DEALERS GENERALLY

Chas. M. Higgins & Co., Manufacturers
Branches: Chicago, London 271 Ninth St., BROOKLYN, N. Y.



Before You Specify Get this Free Book

You will find it a big help in all kinds of Wood finishing. Tells quantity of materials needed, etc.—how to do best work with least time and cost and most satisfaction.

Johnson's Wood Dye

Made in 15 Shades

is a soft, handsome finish, unequaled for *durable* , artistic effects. Sinks deep into the grain and firmly *sets* the desired shade. Your local dealer probably has samples of the Dye—our Prepared Wax, and other Finishings. But if necessary, we will send them—free. Ask for Book No. AT-7.

S. C. JOHNSON & SON

Racine, Wis.

"The Wood Finishing Authorities"

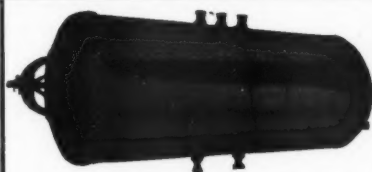
TURNER Construction Company

11 Broadway, New York City

and

312 Prudential Bldg.,
Buffalo, N. Y.

Reinforced Concrete Contractors and Engineers



"Dahlquist"

THAT IS THE NAME
TO REMEMBER
WHEN YOU
SPECIFY BOILERS

BOSTON COPPER BOILERS

ARE BY TEST THE BEST

Will give satisfaction to you and your client.
Our Copper Range Boilers are the best made and every one guaranteed. Let us send you illustrated booklet and price list.

DAHLQUIST MFG. CO., 38 W. 3d St., BOSTON

FRENCH'S "Quality First" CEMENT COLORS

SUPERIOR—STRONG—SAFE

Dry Colors for Coloring all cement mixes.

BLACK—RED—BLUE—BROWN—YELLOW

Permanent—Easy to Work

Write for samples and prices

Manufactured only by

SAMUEL H. FRENCH & CO.

Established 1844

PHILADELPHIA, PA.

CANVAS ROOFING

BAYONNE
ROOF AND DECK
CLOTH

To satisfy you of its wearing qualities we will send you enough to cover a busy spot in your office.

Paint It Once—Only Once!

JOHN BOYLE & CO., INC.

112-114 Duane Street NEW YORK 70-72 Reade Street
202-204 Market Street, ST. LOUIS

"50 years' experience back of it"

HESS SANITARY LOCKER

The Only Modern, Sanitary
STEEL Medicine Cabinet



The Roomed Steel Medicine Cabinet

or locker, finished in snow-white, baked everlasting enamel, inside and out. Beautiful beveled mirror door. Nickel plate brass trimmings. Steel or glass shelves.

Costs Less Than Wood

Never warps, shrinks, nor swells. Dust and vermin proof, easily cleaned.



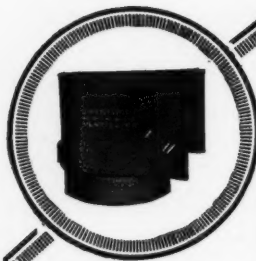
Should Be in Every Bath Room
For styles—four sizes. To recess in wall or to hang outside. Send for illustrated circular.

HESS, 942L Tacoma Bldg. CHICAGO

Makers of Steel Furnaces.

Free Booklet.

The Outside Steel Cabinet



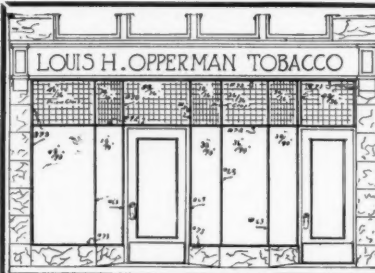
THAT dangerous
foul air—those disagreeable odors—that
sickening smell are all
removed by installing

SWARTWOUT

Rotary Ball Bearing
VENTILATORS

Send for Bulletin 152 They are rotary, not stationary.
They use the full power of the wind.

THE OHIO BLOWER CO.
5123 Perkins Ave., N. E. CLEVELAND, O. 1-204



FRONT ELEVATION.

merchants, will be yours if you specify the Petz Bar. Our booklet: "Metal Store Front Construction" is full of interesting and valuable information.

DETROIT SHOW CASE CO., SOLE MAKERS
482 FORT STREET WEST DETROIT, MICH.

Why Take Chances

with other bars when the
Petz Bar for metal store
front construction has a
record for **never** breaking
glass?

It is safe, strong, simple,
handsome in design, and
gives perfect ventilation,
neat in appearance, and
gives the utmost display
space.

Easy to Install

The satisfaction expressed by thousands of
architects, builders and

Furniture for Chemistry

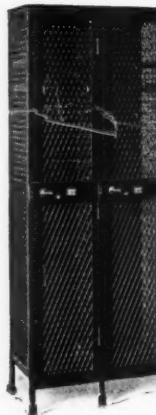
Physiology, Physics, Biology, Domestic Art and
Domestic Science Laboratories can be purchased in large
lots and shipped promptly. We carry fifty carloads in
stock.

We furnish plans to Architects, showing the location
of each piece of furniture and the location of each water,
waste and gas supply pipe as well as electrical outlets
for the different laboratories. Send us the floor plans of
the school you are building.

Write for our catalogues Nos. 5, 6 and 7.

KEWAUNEE MFG. CO.

Manufacturers of Laboratory Furniture
New York Office: 59 Fifth Ave Kewaunee, Wis.



PEN-BAR PLANISHED STEEL LOCKERS

Their harmonizing beauty and rigid,
all-steel construction, combine to win
the lasting favor of all who see and
use them.

Made in sections of standard size for
prompt shipment, or to specification.

Write for copy of "Locker Information" to complete your files.

Edw. Darby & Sons Co., Inc.
236 Arch Street, Philadelphia, Pa.

WE DO ENAMELING AND GILDING

ON WOOD, METALS, PLASTER, GLASS
CONCRETE, PAPER, ETC.

The J. Adler Gilding Company

343-5-7 West 131st Street Phone 1590-1 Chelsea
HARDWOOD FINISHING

ORIENTAL STUCCO and Interior Colored Finishes

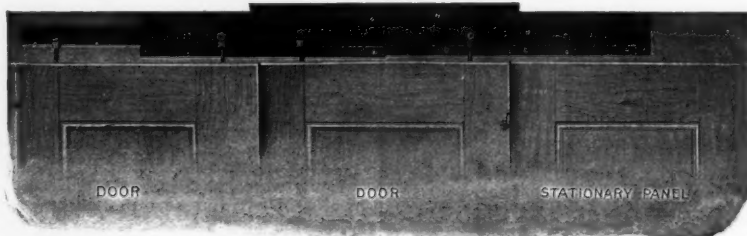
ABSOLUTELY WATERPROOF

The only material of its kind. Will cover
more space. Most economical. Greatest elasticity. Dry quicker, become harder and more
durable than any other material

Oriental Stucco and Interior Finishes made in All Colors.
Shipped ready for use. Simply add water.

DEALERS!! Write for STUCCO BOOKLET and Prices.
Shipments by Water or Rail.

WOLFE & MISNER, Sole Distributors
MONUMENT PLASTER CO., Essex Bldg. Newark, N. J.

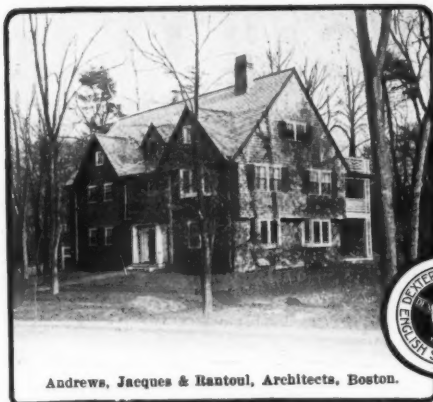


Speed Silence Strength

To these three requisites of a
perfect Elevator Door Hanger

"RELiance" Hangers add Smooth, Easy Action and Durability. Absolutely Ball-Bearing.

RELiance BALL BEARING DOOR HANGER COMPANY
1 MADISON AVENUE, NEW YORK CITY



Andrews, Jacques & Rantoul, Architects, Boston.



DEXTER BROTHERS' English Shingle Stains

Hold their colors in all climates and give a wealth of artistic effect. By the use of our Silver Grays, Moss Greens and Wood Browns any house may be stained to harmonize with its surroundings.

Let us send you our twenty-eight miniature shingles.

DEXTER BROTHERS CO., 120 Broad St., Boston, Mass.

Branch Offices, 1133 Broadway, N. Y., 218 Race St., Phila.

Makers of Dexter Brothers' PETRIFAX, a waterproof coating for exterior and interior use on cement, brick, plaster, etc.

AGENTS—H. M. Hooker Co., Chicago; F. H. McDonald, Grand Rapids; F. T. Crowe & Co., Seattle, Spokane, Tacoma, Wash., and Portland, Ore.; M. D. Francis, Atlanta, Ga.; F. S. Combs, Halifax, N. S.; E. B. Totten, Security Bldg., St. Louis, Mo.; Sherman Kimball, San Francisco, AND DEALERS.



Stain Paint

Stain your shingles and bring out the natural grain of the wood



Hydrex-Saniflor Sound-Deadening Felt.
As Used in Floors.

HYDREX-SANIFLOR has a shell-like, flexible coating on both surfaces, which waterproofs and hermetically seals in the felt, making it non-absorbent, clean, sanitary, and proof against moths, mice and other vermin, which cannot eat the coating. It is an excellent waterproof, warmth-giving blanket—a non-conductor of sound, heat and cold.

THE HYDREX FELT & ENGINEERING COMPANY

Makers of Waterproof Felts, Building Papers, Roofings, Paints, Asphalts, etc.

NEW YORK, 120 Liberty St.

CHICAGO, 122 So. Michigan Ave.

WASHINGTON, Colorado Bldg.

Factories: RAHWAY, N. J.

For Sheathing and Lining specify HYDREX-NOVENTO Waterproof Building Paper



HYDREX - SANIFLOR

Sound-Deadening and Insulating Felt

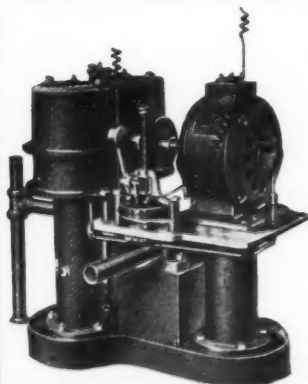
A coated, waterproofed, sanitary sound-deadening and insulating blanket.

used in floors, partitions, roofs, and under clapboards.

The old-school deadening felts, containing animal and vegetable matter, are feeding and nesting places for vermin and absorb moisture and odors.

They are not hygienic.

They are waterproofed and hermetically seals in the felt, making it



NO MORE ROYALTIES TO USERS OF THE PAUL HEATING SYSTEM

The Paul Heating System having the confidence of the American Architects is making unparalleled records for efficiency and reliability.

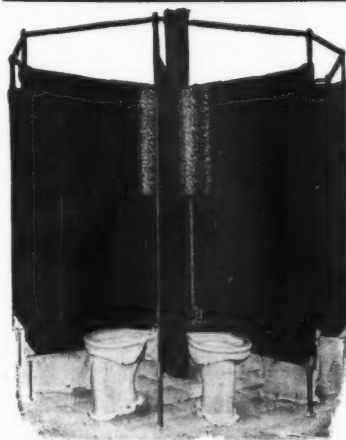
This type of Vacuum Pump is known as the "Duplex" and is equipped with an electric motor. It is the only noiseless Vacuum Pump for Steam Heating on the market. It has an automatic air suction that will positively eliminate air binding and pounding which operates only when there is air to be removed from the radiators.

We guarantee the users of this pump a saving of 30% on consumption of coal and also guarantee no more royalties.

Better write for "Duplex" Vacuum Pump literature for heating Offices, Public Buildings, Hospitals, Factories, Residences, etc.

Fischer-Sweeny Bronze Co. Sole Manufacturers of the Paul Heating System

1302-04 06 Clinton St., HOBOKEN, N. J.



The Kelly Octopus Water Closet System

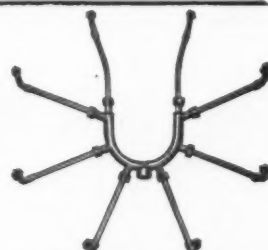
Patented Oct. 20, 1908, Dec. 1, 1908, Sept. 7, 1909.

The complete fixture as shown, occupies a space equal to a circle 7 ft. 6 in. in diameter. Set in the center of a room, this gives all the wall space for wash basins, urinals, sinks, etc.

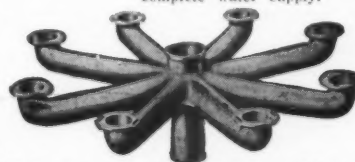
Perfect ventilation; no trap venting needed.

THOS. KELLY & BROS.

Congress St. and 46th Ave., Chicago



Octopus Water Supply Connections
complete water supply.



Kelly Octopus Closet Fitting, comprising all plumbing below floor.

Terra-Cotta in Architecture

Ideas



F all building materials, architectural terra-cotta lends itself most readily to new ideas. It does so because it is plastic to an unusual degree. It is truly "clay in the hands of the potter." The New York Architectural Terra Cotta Company is taking advantage of this quality of terra-cotta. It is a company of ideas and is constantly applying those ideas to its terra-cotta. That is why New York Architectural Terra-Cotta to-day is the most improved and the most modern terra-cotta made.

**New York
Architectural Terra-Cotta
Company**

Two twenty-five Fifth Avenue
New York

"ALCA" LIME

Trade Mark (PATENTED)

A perfect and most economical cementitious material for all-around use in mortars, stuccos and in plasters, inside and outside.

Prepared with and without hair.

A reasonably quick hardening, highly plastic, hydrated lime, ready for immediate use for all purposes.

Contains the good features of Portland Cement, Gypsum Plaster and Lime.

Send for Trade Bulletin on "Alca" Lime
and for further information consult

Charles Warner Company

Executive Offices
WILMINGTON, DELAWARE

Philadelphia New York Boston



It Is Worth While for Architects to Know

that we have the largest and best equipped plant in the world for the manufacture of **Plastic Ornaments and Decorative Work** of all kinds in **Plastic Materials**.

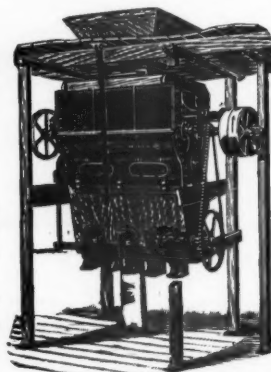
We are constantly engaged in executing the designs of architects throughout the country in ornamental plaster, composition and cement work for theatres, hotels and other public buildings, and dwelling houses. We have the experience and the "know how" as well as the facilities.

THE DECORATORS' SUPPLY CO.
Archer Avenue and Leo Street CHICAGO

THE MIXER THAT MIXES

hair or fiber with plaster the way it should be done. All working parts and mixing chamber of the

Broughton Mixer



are made of Iron and Steel. Paddles in screw form are placed on two shafts running in opposite directions, lift the material from the bottom of the case and throw it in opposite directions from one end of the case to the other, keeping it in constant motion and obtaining a perfect mixture.

The Broughton Mixers are durable and easy to operate, designed with great care. Duplicate parts can be furnished at any time. Send for booklet.

W. D. Dunning
231 West Street, Syracuse, N. Y.



WHY Herringbone Lath For All Classes of Work

Herringbone Expanded Metal Lath is now recognized by the best architects and builders as a type of metal lath that can be depended upon for all classes of work.

Herringbone lath gives maximum rigidity. Studs can be placed sixteen inches, center to center, instead of twelve. Saves five cents square yard on studding.

Herringbone lath insures a plaster coating of uniform thickness. Interlocking selvedge edges are stiff and straight, forming a perfect joint, without waste from lapping.

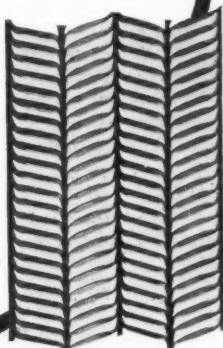
Herringbone lath gives a flat surface to the trowel, instead of a cutting edge. Mortar completely envelops lath, without undue waste, forming perfect and indestructible key.

Also made of American Ingot Iron for work subject to the corroding influences of salt air, gases or acids.

Write Today for Free Booklet dealing with the uses and the advantages of Herringbone Expanded Metal Lath.

The General Fireproofing Co.

2703 Logan Avenue
Youngstown, Ohio



Trade-Mark
Reg. U. S. Pat. Off.

Your Stucco or Concrete House Needs Bay State Brick and Cement Coating Protection

This coating does not destroy the distinctive texture of concrete, protects against dampness and moisture and has been endorsed by the National Board of Fire Underwriters as a fire retarder. It comes in different colors.

Let us send you a booklet that tells you all about it. It has been used by the best architects, contractors and builders as a coating in light as well as heavy construction of every kind; houses, mills, breweries, garages and railroads.

It is very effective as a tint for interior decoration on wood, cement or plaster.

Address for booklet No. 7

Wadsworth, Howland & Co., Inc.

Paint and Varnish Makers and Lead Corroders
82-84 Washington Street Boston, Mass.



KEWANEE WATER HEATING GARBAGE BURNER

FOR DESTROYING REFUSE WITHOUT ODOR

Burns all the Garbage. Destroys all the Odor. Heats all the Water you can use.

PATENTED

Send for Catalog No. 59

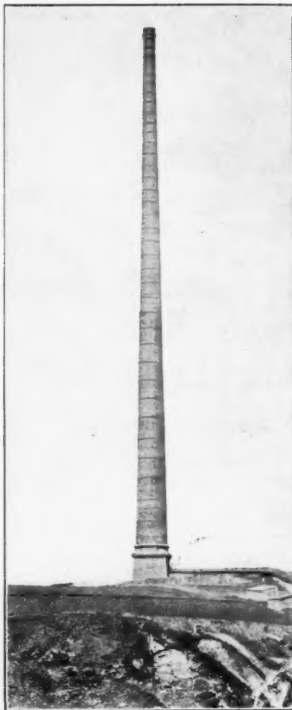
KEWANEE BOILER COMPANY

KEWANEE, ILLINOIS

Chicago St. Louis New York Kansas City Salt Lake City



The
**Northwestern
Terra Cotta Co.**
CHICAGO
manufactures the
Highest Grades of
ARCHITECTURAL
TERRA COTTA
ENAMELED
WORK
A SPECIALTY



460'-0" High
by
8'-3" Diameter

Perforated Radial Brick Chimneys

Design and Construction

*Estimates and
Information
Upon Request.*

**H. R.
Heinicke,
INC.**

147 Fourth Ave.
New York City, N.Y.

Philadelphia, Pa.
Boston, Mass.
Charlotte, N. C.
Toronto, Ont.
Montreal, Que.

"CAN'T BE DONE"

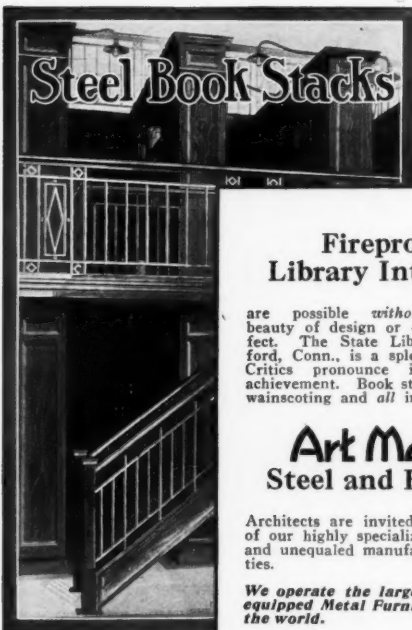


Plate G-206 "Tennessee" Sink (Patented)
Made in Three Sizes

"You cannot improve 'Tennessee Sinks,'" was the verdict of our trade. We couldn't improve the sink but we improved the legs and mat. The cut shows the legs. The mat is made of wood slats, finish in white. Handsome and durable.

The Cahill Iron Works, Chattanooga, Tenn.

New York Office and Display Rooms, 1161 Broadway, Thos. H. Hutchinson, Manager. Philadelphia Office, 5604 N. 4th St., Russell D. Knight, Sales Agent. Portland Office and Warehouse, 550 Sherlock Bldg., H. A. Heppner & Co., Sales Agents. San Francisco Office and Display Rooms, 1749 Sacramento St., C. H. Stanyan, Sales Agent. Havana, Cuba, Office, San Ignacio No. 50, Cagigas & Quesada, Sales Agents.



2-Story Stack
State Library
Hartford,
Conn.

Steel Book Stacks

Fireproof Library Interiors

are possible without sacrificing beauty of design or ornamental effect. The State Library at Hartford, Conn., is a splendid example. Critics pronounce it a distinct achievement. Book stacks, galleries, wainscoting and all interior trim is

Art Metal Steel and Bronze

Architects are invited to make use of our highly specialized experience and unequaled manufacturing facilities.

We operate the largest and best-equipped Metal Furniture plant in the world.

Art Metal Construction Company

Jamestown, N. Y.

BRANCHES: New York, Chicago, Philadelphia, Boston, Washington, Baltimore, St. Louis, Pittsburgh, Kansas City.

Our New Catalogs are just off the press. Handsomely illustrated. Four books: "Libraries," "Banks," "Public Buildings," "Commercial and Ins. Offices." Send for books wanted.



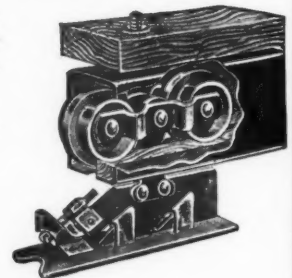
FOR YOUR RESIDENCE WORK

Flats and Apartment Houses Specify the Richards-Royal House Door Hangers

They assure you that satisfaction to your clients which you strive for.

Sold by the Hardware Trade.

Have You Our
Catalog Ten
Architects'
Edition?



Richards-Wilcox

MANUFACTURING CO.
AURORA, ILL. U.S.A.

Berger's Metal Lumber

Build with

Berger's Metal Lumber

It replaces wood stick for stick in the superstructures of residences and all classes of buildings—is used successfully in conjunction with any class of exterior wall construction or design.

Write for "Metal Lumber" Text Book. It gives details.
Free on request.

THE BERGER MFG. CO.
Canton, Ohio

New York Philadelphia Minneapolis
Boston St. Louis San Francisco

Also manufacturers of Prong Lock Studs and Furring, Rib-Truss, Ferro-Lithic and Multiplex Reinforcing Plates, Metal Ceilings, Expanded Metal Lath, Sidewalk Forms, Raydiant Sidewalk Lights, etc.

Berger's Metal Lumber

Electrolier Switches

are used to give simultaneous, alternate, or consecutive control of the different lamps of a group of lights.

They can be used not only to control chandeliers, but also to permit many pleasing lighting effects in combining the ceiling and wall lights of a room.

To Control Several Circuits

thus one form of connection is as follows (see diagram above):

1st snap connects circuit 1.
2nd snap connects circuits 1 & 2.
3rd snap connects circuits 1 & 2 & 3.
4th snap—off.

We can furnish stock switches to give almost any desired combinations of two and three circuits. We will be glad to send you wiring diagrams and full information about any special electrolier circuits.

Approved and labeled by Underwriters' Laboratory. Listed in Sweet's Index.
Prices: H & H Switches no longer cost more than other switches.

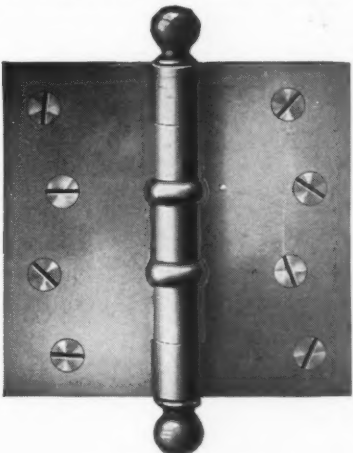
References: Ask any electrical contractor about the durability of H & H Switches. Please write for catalogue.

THE HART & HEGEMAN MFG. CO.
344 Capitol Ave., Hartford, Conn.

CUTS
USED IN THIS
PUBLICATION
ARE MADE
by the

**MOSS
PHOTO
ENGRAVING CO.**
PUCK BUILDING
295-309 LAFAYETTE ST. COR. HOUSTON
NEW YORK
TELEPHONE 81 SPRING
ESTABLISHED 1871

DOORS
will never creak or bind



when hung on
Stanley's Ball Bearing Hinges

Friction is eliminated: Oiling is unnecessary.
NON-RISING Pins prevent the pins from working out of the joint

Write for Circular "AA" to
THE STANLEY WORKS
New York NEW BRITAIN, CONN. Chicago



JACOBSON AND COMPANY

call the attention of Architects to their Chimney Pieces made of cement in the imitation of all stones and after authentic designs, ancient and modern. These mantels have become quite the vogue and are replacing other materials. They are comparatively inexpensive, fireproof and representative of the highest grade of the reproductive art.

Catalogues are published, and will be sent on application to architects.

JACOBSON AND COMPANY

241 East 44th Street, New York City, U. S. A.

The Constructional
features of
"Sirocco"
TRADE MARK

HEATING and VENTILATING FANS

provide for strength,
rigidity and highest
attainable efficiency.

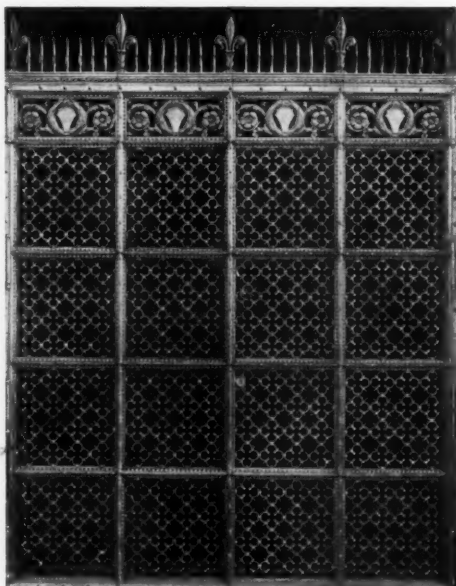
Every operation in the manufacture of "Sirocco" Fans is done with greatest care. This, combined with the patented features of the design, renders their ultimate efficiency the highest possible.

With "Sirocco",
installation costs,
power consumption
and maintenance
charges are
all **low**.

Bulletin No. 340-A
should be in your
reference files.
Yours upon re-
quest.

AMERICAN BLOWER COMPANY
DETROIT, MICH.
U. S. A.

Canadian Sirocco Company, Limited, Windsor, Ont.
Manufacturers for Canada



VESTIBULE GATES
Central Library Building, St. Louis, Mo.
CASS GILBERT, Architect



THE GORHAM CO ARCHITECTURAL BRONZE.
FIFTH AVENUE NEW YORK

The success of a decorative
scheme often depends upon getting
a pure white and clear delicate
tint.

A white lead with which these
results are certain is never any
disadvantage.



Your client cannot get greater
paint value either in beauty or
durability. There is no strictly
pure white lead which is any more
economical.

Then why not always specify
Carter?

Severe Tests Prove That J-M TRANSITE ASBESTOS WOOD Is Absolutely Fireproof

In a recent fire test made on J-M Transite Asbestos Wood by Prof. C. L. Norton, of the Massachusetts Institute of Technology, several pieces of this wood, 12 inches square by $\frac{1}{4}$ inch thick, were placed in a cubical brick furnace and subjected for thirty minutes to the flames of a powerful blast lamp at 1400 to 1900 degrees Fahr. The wood was then taken out and placed in cold water for several minutes, after which its strength was tested and it was found that it would sustain a weight of 141 pounds without breaking. This test proves conclusively that J-M Transite Asbestos Wood is absolutely fireproof.

As a fireproof lumber for wainscoting, partitions, ceilings, etc., J-M Transite Asbestos Wood has no equal. It possesses the same physical characteristics as ordinary lumber, but is harder and takes a higher polish. J-M Transite Asbestos Wood can be painted, grained, stained and polished the same as any lumber and manipulated with woodworking tools. Heat, cold or moisture will not cause it to warp, rot, chip or crack.

Write our nearest Branch for illustrated booklet.

H. W. JOHNS-MANVILLE CO.

Manufacturers of Asbestos
and Magnesia Products

ASBESTOS

Asbestos Roofings, Packings
Electrical Supplies, Etc.

Albany
Baltimore
Boston
Buffalo

Chicago
Cincinnati
Cleveland
Dallas

Detroit
Indianapolis
Kansas City
Los Angeles

Louisville
Milwaukee
Minneapolis
New Orleans

New York
Omaha
Philadelphia
Pittsburgh

San Francisco
Seattle
St. Louis
Syracuse

For Canada:—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED.

1734

Toronto

Montreal

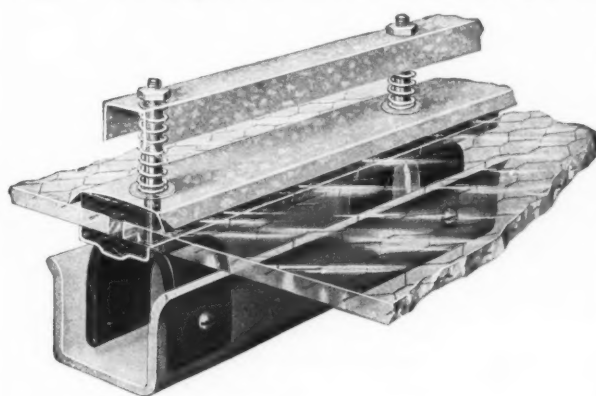
Winnipeg

Vancouver

One Investigation
Once—then

Anti-Pluvius Puttyless Skylights

The name that stands for permanent weather-tight skylights. In your specification it guarantees quality and a successful installation. Wide and general use stamps the real value of any product. Glance at the range of installations the past year, the class of buildings and their designers:



Boston Elevated Rd., So. Boston Power Station and Substations, Boston; New Haven County Court House, New Haven, Conn.; Sip Avenue Terminal Public Service Ry., Jersey City, N. J.; Columbia Arcade, Columbia, S. C.; West Technical High School, Cleveland, Ohio; Cass Avenue High School, Detroit, Mich.; Toledo Market House, Toledo, Ohio; Baltimore & Ohio R.R.; Grand Central Sta., Chicago, Ill.; Quick Metal Stove Co., St. Louis, Mo.; Kansas City Post Office, Kansas City, Kan.; Purdue University, Lafayette, Ind.; Mt. Hood Ry., Light & Power Co., Mt. Hood, Ore.

Go further, secure details, analyze the design, materials used—make comparisons.

DECIDE—a specification is essential. Our organization—all specialists in skylight manufacturing and erection—is at your command.

THE G. DROUVÉ CO., Bridgeport, Conn.

Our other product—THE "STRAIGHT PUSH" SASH OPERATOR

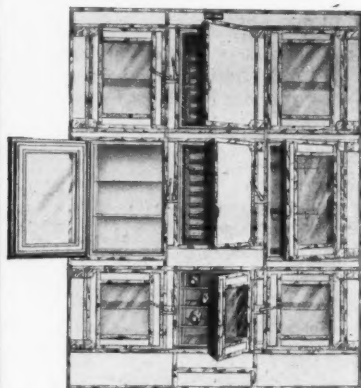
McCray Refrigerators

THE BEST REFRIGERATORS

for the best houses are built in, thus giving the advantage of utmost convenience to the owner. The rear porch icing arrangement keeps the ice man out and avoids the muss on the floor in the kitchen and pantry. Contractors and builders everywhere say that

McCRAY REFRIGERATORS

are easy to install and combine every feature for keeping foods fresh, as well as cold. The air in the McCray is constantly in motion, thus allowing no stagnant pockets for the generation of bad odors or poison. Besides this the McCray has the best of sanitary linings; opal glass, porcelain, enamel and odorless white wood—no zinc—and is of handsome and strong construction.



Send rough floor plan and dimensions and our free design service will co-operate with you thoroughly and furnish you with blue prints, help you with specifications and solve any refrigerator problems which may confront you.

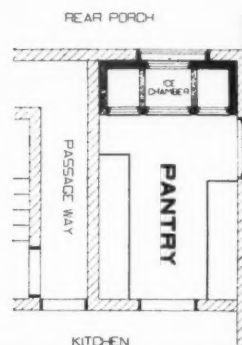
Send for any of the following catalogs: -

	No.
Built to order for residences.....	A. H.
For groceries.....	68
For flower shops.....	72
For meat markets.....	59
Regular sizes for residences.....	88
For hotels, clubs, institutions.....	49

McCray Refrigerator Co.

307 Lake Street, Kendallville, Ind.

New York Branch, 231 West 42nd Street



Eureka Linen Fire Hose

"Eureka" is the best Fire Hose made. All sizes for every possible use.



Hose always on hand ready for immediate delivery. Made to last.

Our Two Leading Brands Are

Eureka Best Linen and Eureka 20th Century

The only circular and seamless woven brands of fire hose made that possess four, three and two entirely distinct and independent plies, and can be entirely separated, and possess four, three and two warp and filling threads.

We are also manufacturers of EUREKA WORTHY LINEN, PREMIER LINEN, TRADE LINEN and RED BALL LINEN.

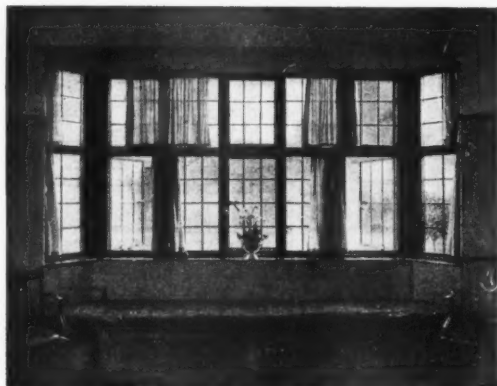
We invite inquiries for prices and samples.

EUREKA FIRE HOSE MFG. CO., NEW YORK

Atlanta, Ga. Boston, Mass. Columbus, Ohio. Kansas City, Mo. Chicago, Ill. Denver, Colo. Minneapolis, Minn. Philadelphia, Pa. San Francisco, Calif. Spokane, Wash. Syracuse, N. Y.

CRITTALL

Solid Steel Casement Windows



Old English Casement Windows hinged at the side to swing out like a door, have been used in English houses for hundreds of years and are the standard window for English houses today.

Because their beauty appeals to everyone, because they are the ideal window for the home and for other practical reasons, Casement windows are undergoing a revival in this country and finding increasing favor with the architect.

Adjusters, simple and strong in action, easily operate the Casement from inside the screens or storm sash—unnecessary to open the screen.

Every opening is 100% window; the Casement window affords three times the cooling ventilation obtained through the ordinary double-hung or "guillotine" sash.

There are all sorts of artistic possibilities in the glazing and curtaining of casements; no ugly check rail to mar attractive views; the simple, single sash may be glazed with leaded glass in a wide variety of good, simple designs or subdivided with quaint looking muntins which give one a feeling of being comfortably housed-in on stormy winter days.

Casements add little to the cost. There are no weights with sash cord to wear out and break. Once properly fitted they do not stick. **And they do not rattle.** Double-hung sash sometimes stick and sometimes rattle and the trouble is not easily corrected.

There is no window so weather tight as the out-swinging casement.

Ask us for designs and prices—we shall try to please you with both.

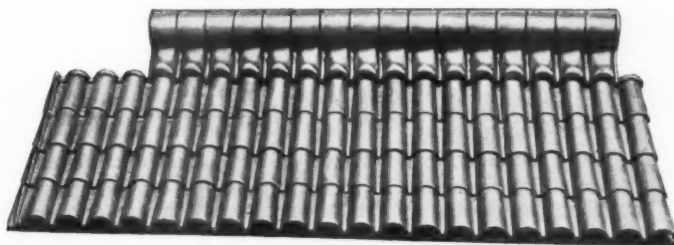
CATALOG AND PHOTOGRAPHS ON REQUEST

CRITTALL CASEMENT COMPANY, *Manufacturers*, DETROIT

METAL TILE ROOFING

of Mullins make is the kind that endures. It is simple in construction—positively storm and water-tight.

Guaranteed to remain in perfect condition for years, when put on according to directions. Expansion and contraction thoroughly provided for.



Widely conceded to be the most attractive and satisfactory roofing made.

Also manufacturers of Cornices, Building Fronts, Garlands, Modillions, Enriched Moldings, Capitals, Finials, Tympanum Panels, Rosettes, Faces and other architectural ornaments. Thousands of designs to choose from.

Cornice Makers and the Building Trades will find our prices attractive and shipments prompt.

Tell us your wants and the particular kind of Sheet Metal Work you are interested in. Catalogues will be mailed you at once. Discounts to the trade on application.

THE W. H. MULLINS CO.
206 Franklin Street, Salem, Ohio



Satinette

the perfect white enamel, is a hard, vitreous compound, so tenacious as to be practically fused upon surfaces to which it is applied. The hard, glossy surface so obtained is both a decoration and a preservative. There is but one perfect white enamel, distinctive, refined, satin-like in its smoothness, and a mirror of quality in its lustre. This is **Satinette**, the enamel which protects alike your building and your professional profits.



Satinette and Elastica

are produced by a company that has become great through their satisfactoriness. From a small and humble beginning to an enormous company with offices and plants in New York, Chicago, San Francisco, London, Berlin, Paris, Brussels, Melbourne and Toronto—tells the successful varnish history of **THE STANDARD VARNISH WORKS**. Briefly, the reason for this expansion is the constant production of dependable varnish—the kind that builds a reputation for all who handle it.

Elastica

brand of varnish is a high grade wood finish capable of hardening without losing its elasticity, thereby producing a hard, glossy protective coating. Why should not architects have the satisfaction of knowing that they specify this best varnish obtainable? Do not be too willing to specify blindly. Cultivate the acquaintance of the **Elastica** brand of varnish.

No Other Brands have the Two Blue Strands



When we commenced the manufacture of REGAL SASH CORD we realize that a **new cord must** be a **better cord** to get the business.

We are getting the business. That's the answer. REGAL SASH CORD has been specified in every instance where it has been investigated. It was specified for **eleven skyscrapers**, and numerous smaller buildings, in **one week** by leading architects, where copper sash chain had originally been intended.

By the advice of architects we adopted the mark that distinguishes REGAL SASH CORD—the **two blue strands**. It guarantees a **better cord**, with a **longer life**.

Judge Walter Evans of the Federal Court, handed down his **final** opinion March 23rd sustaining us in our marking of REGAL CORD with the **two blue strands**. The department of Commerce and Labor, U. S. A. has also sustained **every claim we have made as to quality**. Won't you join the Government in approving and specifying it?

Write us today for copy of the Government approval and sample of the cord.

Puritan Cordage Mills

-

Louisville, Ky.

The "Tinner's Terne" For Better Business

To obtain best results—specify and insist
upon having

COPPER BEARING Open Hearth Roofing Tin

Manufactured exclusively by this Company

Write for full information and quotations on our high-grade Terne Plates, Continuous Roofing Tin, Apollo Galvanized Sheets, Black Sheets, Formed Metal Roofing and Siding Products, Cambridge Metal Lath, Etc. Send for Weight Cards and Reference Book.

American Sheet and Tin Plate Company

General Offices: Frick Building, Pittsburgh, Pa.

DISTRICT SALES OFFICES:

Chicago Cincinnati Denver Detroit New Orleans New York Philadelphia Pittsburgh St. Louis
Export Representatives: UNITED STATES STEEL PRODUCTS COMPANY, New York City
Pacific Coast Representatives: UNITED STATES STEEL PRODUCTS COMPANY, Los Angeles, Portland, San Francisco, Seattle

The McAlpin Hotel

now under course of construction, wouldn't be considered high class, despite its size and other advantages, were it without the 1000 Solid Porcelain Bathtubs which we are making for it.

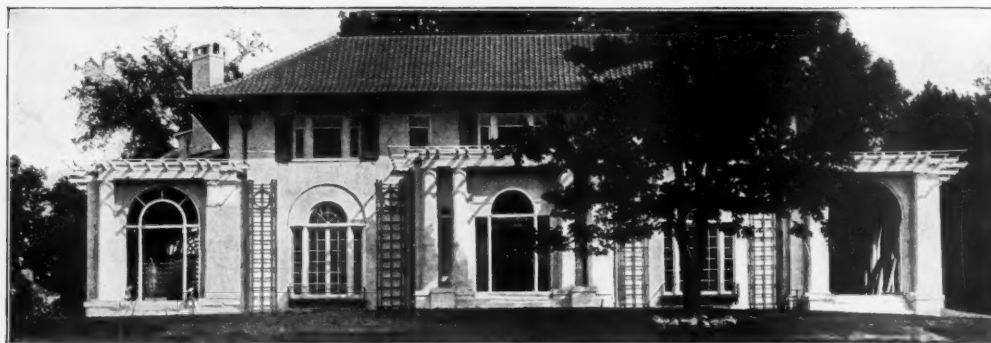
Refined people, travelling or at home, expect and demand the Solid Porcelain Tub.

Not only should it be installed from an ascetic standpoint but primarily because of its substantial durability and length of service, it proves an economic investment. "Ideal" Porcelain ranks as the best.

The Trenton Potteries Co.

Trenton, New Jersey





HOUSE OF A. B. GAINES, ENGLEWOOD, N. J. Davis, McGrath & Kiessling, Architects.
Neponset Waterproof Building Paper Used.

NEPONSET

Waterproof Building Papers

do away with cold, damp, drafty houses. Absolutely waterproof. Should be in every house. Neponset "Black" costs only about \$10.00 more than rosin sized for the average house and will save at least a ton of coal each winter. Any owner will cheerfully pay the difference when told why.



Branch Offices:

New York
Washington, D. C.
Columbus, Ohio

F. W. Bird & Son, East Walpole, Mass.

Established 1795

Canadian Plant, Hamilton, Ontario

Branch Offices:

Chicago, Ill.
Portland, Ore.
San Francisco, Cal.



Reinforced Concrete Building for Doubleday, Page & Co., Garden City, L. I. Kirby & Petit, Architects, New York.

The above building is a remarkable example of rapid work in reinforced concrete. It was imperative that the owners obtain the building in the shortest possible time. After considering all types of construction, reinforced concrete was decided on as the most economical in first cost and the quickest to complete. These predictions were borne out in every respect. The roof was complete in 51 working days after footings were started. The total floor area of building amounts to 145,000 square feet. The speed of construction was an average of **3,000 square feet of structure completed per working day** of eight hours. The structure is monolithic, fireproof, vermin proof, and ideally adapted to the demands of a publishing house.

INDUSTRIAL ENGINEERING COMPANY

Branch Offices:

100 State St., Albany, N. Y.
Grant Building, Atlanta, Ga.

ENGINEERS AND CONTRACTORS

30 Church Street, N. Y.

Fireproof Building Construction

HEATON, BUTLER & BAYNE

Glass Stainers

By Appointment to the Late
King Edward VII



*Stained Glass,
Mosaics, Church
Decorations,
Memorial Brasses,
Etc.*



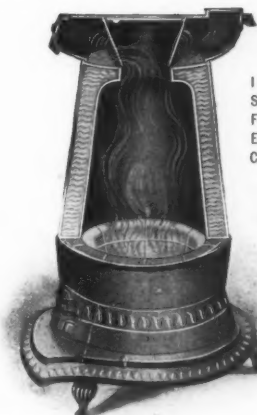
Designs and Estimates on
Application to

**Heaton, Butler
& Bayne, (N. Y.) Ltd.**

437 Fifth Ave., New York
(Knabe Building)

ONE of the best services you can render is to keep your customers from making costly mistakes, and one of your best opportunities for rendering this service *profitably* is in the selection of hot water supply. Explain that the efficient

Pierce LITTLE GIANT Water Boiler and Tank Heater



INTERIOR VIEW
Showing Brick Lined
Fire Pot. Notice the
Expansive Top and
Circular Grid.

—with its large firepot and great heating service—will furnish hot water at small cost and just as easily as it can be furnished by the expensive method. If you are not fully informed we shall be glad to send full details.



Pierce Mark

Pierce, Butler & Pierce Mfg. Co.
Syracuse, N. Y.



May We Present You With This Folder? It Will Convince You That

The "NEVER SPLIT" Is An Absolutely Sanitary Closet Seat

This folder describes in detail the examination, under a powerful microscope, of an Ordinary Closet Seat which had been in service. The examination disclosed 42,900 living, squirming germs in a space less than one-half inch square, where the sections of the seat were joined.

The "NEVER SPLIT" CLOSET

SEATS are germ proof, absolutely sanitary and built to withstand the wear and tear of hard usage. The "NEVER SPLIT" is backed by our five-year guarantee that it will not split or come apart at the joints.

The "NEVER SPLIT" CLOSET

SEATS are used not only in the best Hotels, Office Buildings, Schools, Public Buildings and Homes, but in fact wherever a Closet Seat is used, not because it is the cheapest seat, but because it is the MOST SANITARY, durable, attractive and comfortable.

Have you data upon it?

NEVER SPLIT SEAT CO.
EVANSVILLE, IND., U.S.A.

MAIL THIS COUPON TO-NIGHT
TO "NEVER SPLIT" SEAT COMPANY
Please send gratis, your folder "42,900 Germs"
Name _____
Street _____
City _____ State _____



TRIANGLE MESH CONCRETE REINFORCEMENT

MADE in rolls.
Either solid or
stranded tension
members. A steel fabric of
great strength, reinforcing
in every direction.

"Engineer's Handbook of Concrete Reinforcement" furnished free upon request

We Make

American Wire Rope	Barbed Wire
Aeroplane Wire and	Woven Wire Fencing
Strand	Fence Gates
Piano Wire	Steel Fence Posts
Mattress Wire	Concrete Reinforcement
Weaving Wire	Springs
Broom Wire	Sulphate of Iron
Fence Wire	Poultry Netting
Flat Wire	Wire Rods
Flat Cold Rolled Steel	Juniata Horse Shoes
Wire Hoops	and Calks
Electrical Wires and	Shafting Cold Drawn
Cables	Steel
Rail Bonds	Wire of Every
Bale Ties, Tacks,	Description
Nails, Staples, Spikes	

We have separate catalog for each of these. Gladly furnished upon application.

American Steel & Wire Co.'s Sales Offices

CHICAGO, 12 West Adams Street. NEW YORK, 30 Church Street.
BOSTON, 100 Franklin Street. PITTSBURGH, 17th Street.
CINCINNATI, Union Trust Building. CLEVELAND, Western Reserve Bldg.
DETROIT, Ford Building. ST. LOUIS, Third Nat'l Bank Bldg.
MONTREAL, Bank of Ottawa Bldg. ST. PAUL, MINN., APOLLO, Pioneer Building. ST. PAUL, MINN., FIRST NAT'L BANK Bldg.
SALT LAKE CITY, 130 South 2nd West Street.

United States Steel Products Company

Export Department: New York, 30 Church Street.
Pacific Coast Department: San Francisco, 1111 California Building.
Portland, Ninth and Alder Sts. Seattle, 4th Ave. South & Union St.
Los Angeles, Jackson & Central Ave.



PL. 3008

The Quietest Closet Made

When installing a Closet Combination why not make a vigorous effort to have it the most Sanitary and Quietest Closet made.

The "Ariston" is as absolutely noiseless as a closet can be made and with the exceptionally high-grade Fittings we use in our Tanks the Combination is perfection.

THE
Thomas Maddock's Sons Co.

The Oldest Sanitary Pottery in America
Established 1859 Trenton, N. J.

Architectural Catalog maintained in the "Builders Trade Catalogs (A. B. C. system Section 35-B; Catalog 5).

The prestige of the name *Western Electric*

is an asset for the
architect who specifies



Inter-phones

for apartment, private and
business houses.

This "ad." will prove it
to you:—

JARVIS APARTMENTS—For rent at once. All modern conveniences. Newly finished. Western Electric telephone system, the most up-to-date apartments in the city, in center of town. See A. B. Jarvis, 250 Carr Ave., or call at building, 629 W. Pike street, Bell 'phone 212-R.

Whatever the service requirements may be, there are Inter-phones to fill them.

They are operator-less and delay-less private telephones.

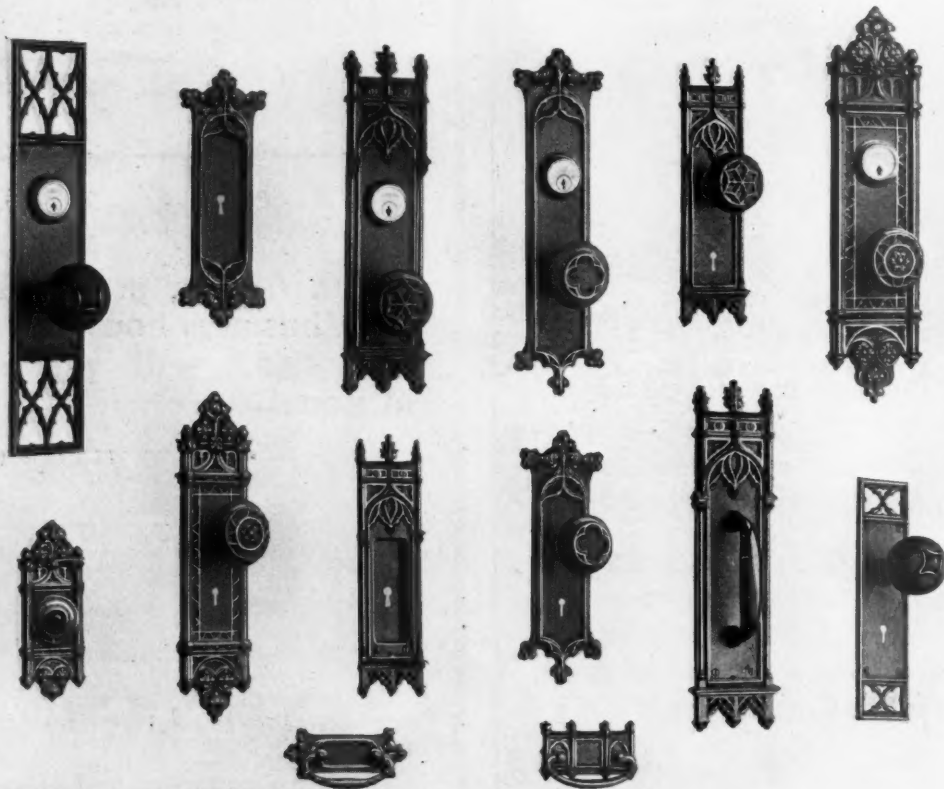
Write for Booklet 28-D to-day.

Western Electric Company

Manufacturers of the 6,000,000 "Bell" Telephones

New York	Chicago	Kansas City	San Francisco	Montreal	London
Buffalo	Milwaukee	Oklahoma City	Oakland	Toronto	Berlin
Philadelphia	Pittsburgh	Minneapolis	Los Angeles	Winnipeg	Paris
Boston	Cincinnati	St. Paul	Dallas	Calgary	Rome
Richmond	Indianapolis	Denver	Seattle	Vancouver	Johannesburg
Atlanta	St. Louis	Omaha	Portland	Antwerp	Sydney
Savannah			Salt Lake City		Tokyo

EQUIPMENT FOR EVERY ELECTRICAL NEED



Examples of Russwin Builders
Hardware in the Gothic Style

RUSSELL ERWIN MFG. CO.

The American Hardware Corp. Successors

SAN FRANCISCO

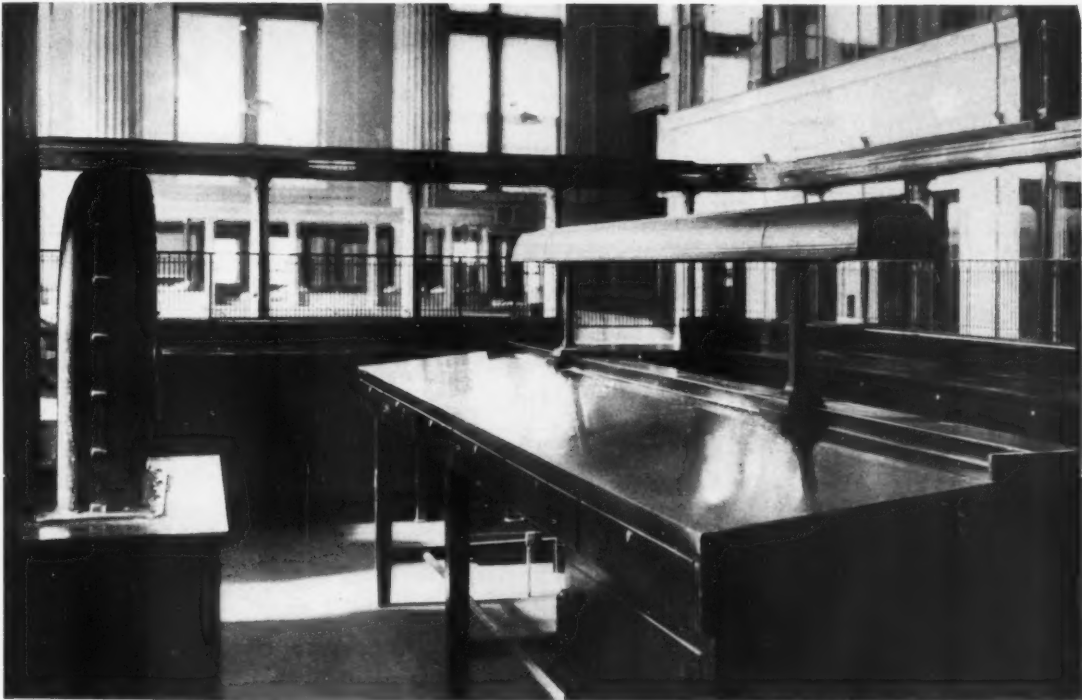
NEW BRITAIN, CONN.

LONDON

RUSSELL ERWIN MFG. CO. of New York
94-96 Lafayette St. 103 W 40th St.

RUSSELL ERWIN MFG. CO. of Chicago
73 East Lake Street

Frink Lighting Systems in The Bankers Trust Building



VIEW OF MAIN BANKING ROOM

TROWBRIDGE & LIVINGSTON, ARCHITECTS
HENRY C. MEYER, ENGINEER

The Bankers Trust Building is the newest and one of the finest buildings on Wall Street, New York City.

The equipment is the best to be had, no pains or money having been spared to make it the most up-to-date banking building in the world.

The consulting engineers, after making thorough investigations and tests, decided to install the Frink System of Bank Lighting, because this system is giving such excellent satisfaction in so many prominent banks and trust companies all over the country.

The first and second floors of the Bankers Trust Building are equipped with Frink Bank Screen Reflectors with specially designed moulding used on the screen to supply illumination for the Banking Counter and to form an inner finish to the Bank Screen Cornice.

A novel feature of the Frink Lighting System is the specially designed Frink Reflectors countersunk in top of bank screens for general illumination of the banking room. The top of these reflectors is provided with a glass screen. This produces the proper color effect and prevents dust from accumulating in the reflectors.

The Second Floor, which is the Main Banking Floor, has specially designed Semi-Indirect Reflecting Chandeliers installed under and over Mezzanine equipped with Frink Reflectors. Quality and tone of light is in perfect harmony with the illumination obtained from the reflectors sunk in cornice of counter screen.

Every desk on three floors is provided with special Frink Reflectors finished to harmonize with the surroundings. These desk lights are of special design and so arranged that the light, while screened from view, is evenly diffused over the entire working surface without glare or shadows.

Write our Illuminating Engineering Department for full particulars.

H. W. JOHNS-MANVILLE CO.

Sole Selling Agents for Frink Products

Albany
Atlanta
Baltimore
Birmingham
Boston
Buffalo
Chicago

Cincinnati
Cleveland
Dallas
Detroit
Duluth
Houghton
Houston

Indianapolis
Kansas City
Los Angeles
Louisville
Memphis
Milwaukee
Minneapolis

Newark, N. J.
New Orleans
New York
Oklahoma City
Omaha
Philadelphia
Pittsburgh

Portland, Ore.
Richmond, Va.
Rochester
St. Louis
St. Paul
San Francisco
Seattle

Syracuse
Tacoma
Washington
Wilkes-Barre

1660

Toronto, Ont.

For Canada:—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED
Montreal, Que. Winnipeg, Man.

Vancouver, B. C.

Peerless Sheet Rubber Tiling



Interior of Prominent Church, New York City, in which PEERLESS Sheet Rubber Tiling is Laid

ARCHITECTS, BUILDERS and CONTRACTORS by specifying PEERLESS SHEET RUBBER TILING, protect their clients and their own interests, as the Tiling for floor covering cannot be excelled.

Being made in one piece, there are no crevices in which dirt or water can accumulate, thus making it thoroughly sanitary.

Our Sheet Tiling is made up in a variety of designs and combinations of color effects to harmonize with any color scheme. It can be laid with less trouble than any other flooring, thus saving time and expense.

SHEET RUBBER TILING is most desirable for Banking Institutions, Libraries, Churches, Hospitals, Theatres, Clubs, Public Buildings, Steamships, Yachts, Elevators, Kitchens, Bath-rooms, etc.

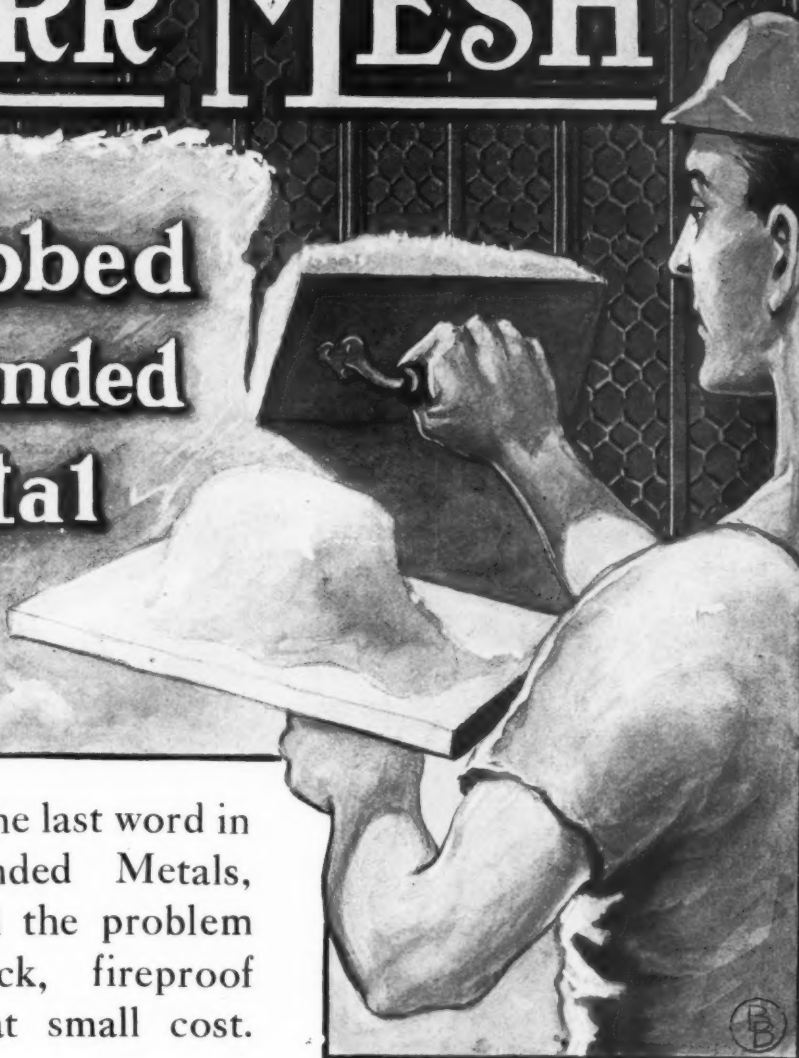
We also manufacture a complete line of high-grade mechanical Rubber Goods, including BELTING, HOSE and PACKINGS of every description.

PEERLESS RUBBER MFG. COMPANY

16 WARREN STREET, NEW YORK CITY

CORR MESH

**A Ribbed
Expanded
Metal**



CORR MESH is the last word in Ribbed Expanded Metals, and has solved the problem of light, quick, fireproof construction at small cost.

CORR MESH is made in single units, in lengths up to 12 feet. The lath mesh is that most preferred by plasterers as giving the best possible combination of ease of application with strength of bond.

CORR MESH for walls and partitions is stud and lath combined; for floors and roofs it saves the expense of centering. This material has a wide field of application and permits of great economy.

*Write and tell us your building plans and we will demonstrate to you the great advantage of using **CORR MESH**.*



Corrugated Bar Co.

402 Mutual Life Building
BUFFALO, N. Y.

NEW YORK

CHICAGO

CORR-BARS
CORR-BAR-UNITS
CORR-LINE-SPACERS
CORR-PLATE-FLOORS
CORR-TILE-FLOORS
CORR-BAR-O
CORR-MESH

ST. LOUIS

Gorham Stained Glass

It is our aim to make
windows that will excel
in color, drawing and
w o r k m a n s h i p .

The Gorham Co.

Fifth Avenue and 36th St.

New York City



SARGENT
HARDWARE

THE RAINIER CLUB
SEATTLE, WASH.

CUTTER & MALMGREN
ARCHITECTS

If all the buildings in the country except those equipped with **SARGENT** hardware were to be suddenly destroyed, no type, style or class would ever by such process become extinct. Moreover, most people would probably be greatly surprised both by the number of buildings left standing and their high average quality.

SARGENT & COMPANY

Makers of Appropriate and Artistic Hardware for More Than 60 Years

NEW HAVEN, CONN.

NEW YORK

BOSTON

PHILADELPHIA

CHICAGO

SARGENT HARDWARE is obtainable through representative hardware merchants in all cities

TIFFANY STVDIOS



A TIFFANY MEDALLION WINDOW

has all the charms of color and design of the original Thirteenth Century Glass, with the added advantages of perfected material and construction.

There is a largely increasing demand for this form of a memorial by Architects, Clergy and Laymen, and it is particularly adapted to the clere-story, transept or great East Window.

 TIFFANY  STVDIOS 

347-355 MADISON AVE. COR. 45TH ST., NEW YORK CITY.

CHICAGO OFFICE, ORCHESTRA BVILDING - BOSTON OFFICE, LAWRENCE BVILDING.



Tyrofuse

TRADE MARK



**At Last A Perfect Garbage Destroyer
THE ACHIEVEMENT OF THE YEAR**

Your Client Will Be Pleased

When you abolish the Garbage Can by installing the PYROFUSE System of Garbage Disposal.

SOME CONVENIENCES

Such as vacuum cleaners, clothes dryers, and water heaters, have received the attention of Architects, and surely the important matter of Garbage Disposal deserves your consideration.

NO NEED

To allow such conditions to exist as illustrated opposite.



SEND FOR IT.

It is not policy to wait for a Client to suggest the installation of the PYROFUSE System. Let the suggestion come from you, Mr. Architect.

J. B. Prescott & Son, Mfrs.

Factory and Main Offices, Webster, Mass.
Branch Offices in Principal Cities



Modern Wrought Steel Pipe

Physical Properties

¶ The physical superiority of mild steel over wrought iron is everywhere recognized. Pipe steel, although so soft and pure that it will not harden when quenched from a red heat, possesses fifty per cent greater tensile strength and ductility than wrought iron, combined with unusual uniformity. These properties are appreciated in threading, due to the stronger and cleaner thread secured, and the absence of hard spots caused by unrefined metal or miscellaneous scrap generally used in the manufacture of modern wrought iron pipe.

¶ The greater margin of safety obtained by using steel pipe is well shown in a series of several hundred bursting tests which were the basis of a paper presented to the American Society of Mechanical Engineers at their Spring Meeting this year, by Professor R. T. Stewart of the University of Pittsburgh, and which concludes as follows:

¶ "The relative strengths of wrought iron and steel pipe, from Table 3, are as follows: Butt-welded wrought iron pipe is 70 per cent as strong as similar butt-welded steel pipe; and lap-welded wrought iron pipe is 57 percent as strong as similar lap-welded steel pipe."

¶ The experience in our mills, where frequently 4000 tons of pipe are welded per day, shows a decided advantage in welding practice, with fewer rejections, in favor of steel. This was one of the main reasons for abandoning the manufacture of wrought iron pipe, the modern welded steel pipe having proved itself decidedly more reliable.

¶ National Tube Company steel pipe is given a special process of roll-knobbling, termed "Spellerizing," which renders the surface more uniformly dense: this process improves the physical properties and renders the metal more resistant to corrosion.

¶ We shall be very glad to give full information on request. You should have a full set of N. T. C. Bulletins on file which we will send on receipt of request.

NATIONAL TUBE COMPANY

General Sales Offices, Frick Building, Pittsburgh, Pa.

DISTRICT SALES OFFICES: { ATLANTA DENVER NEW YORK PITTSBURGH SALT LAKE CITY
CHICAGO NEW ORLEANS PHILADELPHIA ST. LOUIS
PACIFIC COAST REPRESENTATIVES: { U. S. STEEL PRODUCTS CO.—SAN FRANCISCO PORTLAND
SEATTLE LOS ANGELES
EXPORT REPRESENTATIVES—U. S. STEEL PRODUCTS CO., NEW YORK CITY

AUTOMATIC REFRIGERATION **FOR RESIDENCES**



RESIDENCE OF MR. FREDERICK F. BREWSTER, NEW HAVEN, CONN.
Messrs. Stephenson & Wheeler, Architects, New York
Equipped with **AUTOMATIC** Refrigerating and Ice Making Plants

Automatic Refrigerating Plants are peculiarly adapted for installation in High Class Residences doing away with the disagreeable visits of the Ice man, and the Automatic control and Safety Devices doing away with the disagreeable features usually associated with Mechanical appliances in the Household.

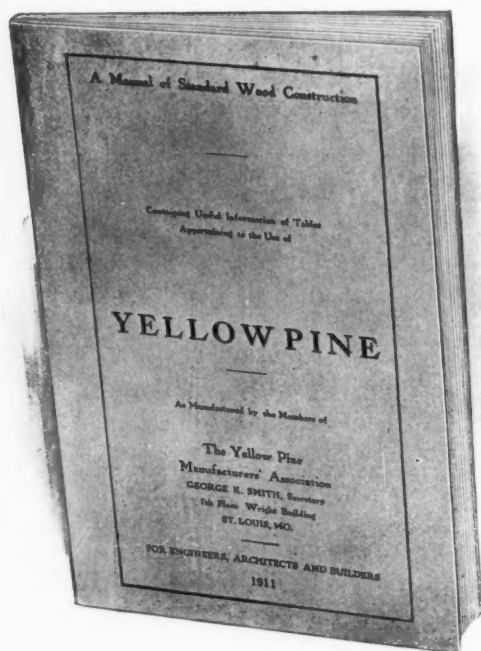
We are always glad to assist Architects in every possible way and will be pleased to answer their questions and on receipt of plans to make estimates and offer suggestions based on our experience.

Let us do this for you—

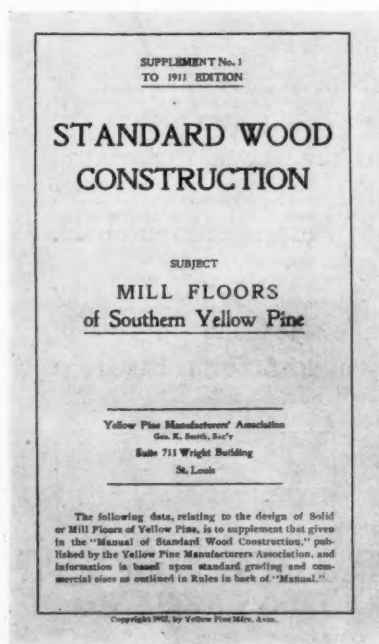
THE AUTOMATIC REFRIGERATING COMPANY

Main Office and Works: HARTFORD, CONNECTICUT

We are the ONLY builders of AUTOMATIC Refrigerating plants and are thoroughly protected by Patents



*If you have the
one, you will
want the other*



A Reliable Reference Book

covering the use of

SOUTHERN YELLOW PINE in Construction

Especially useful and valuable to architects, engineers and contractors, interested in the construction of buildings for manufacturing purposes.

A manual containing authentic information and tables, Grading Rules, Standard Sizes, etc., with reference to Southern Yellow Pine—the standard constructional timber, owing to its strength, hardness, durability and freedom from defect.

Supplement No. 1, relating to Solid or Mill Floors of Yellow Pine, is just off the press. All architects and engineers who hold a copy of our "Standard Wood Construction" may receive a copy without charge, upon application. (Mention this publication.)

For all information regarding
Southern Yellow Pine, address

**YELLOW PINE
MANUFACTURERS' ASSN.**

GEO. K. SMITH, Secretary

711 Wright Bldg.

St. Louis, Mo.

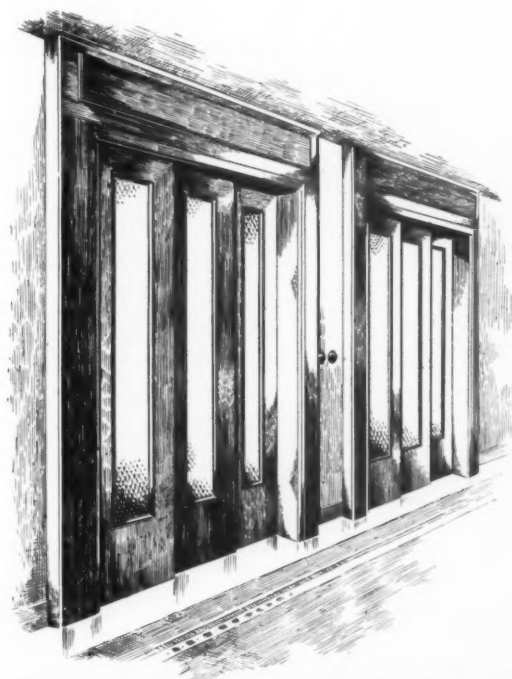


"Thorp-Richardson"
Doors, whether
Communicating,
Corridor or Entrance
Doors, are made to
follow all the niceties
of the Architect's
designs.

"Thorp-Richardson" Doors

Make each room a separate building.
"Thorp-Richardson" doors are safe
and sanely built. Whether plain or
ornamental they keep the fire near
where it started.

Thorp Fire Proof Door Co.
Minneapolis, Minn.



Pullman



The Architects and Contractors Service Car

The "Pullman" is particularly adapted to the needs of a busy man who drives his own car.

It requires no fussing, no grooming, no work to keep in running order.

It is always ready and always right.

It is light in weight, powerful and fast.

It has a motor so flexible that in the most congested traffic it is rarely necessary to change the gear.

The "Pullman" line ranges from the 4-30 Speedster, \$1,675, which is just what the busy Architect and Contractor needs to visit his various jobs, to the 6-60 seven passenger \$2,750 which is the last "word" in touring luxury and comfort.

Our 1912 Catalog—based on long years of experience in motor car building—is filled with facts you should know. May we send you a copy?

PULLMAN MOTOR CAR COMPANY

147 BROADWAY, YORK, PENNSYLVANIA

WOLFF PLUMBING GOODS

FIFTY-SEVEN YEARS OF QUALITY



Starrett & Van Fleck
Architects

GIMBEL BROTHERS BLDG., NEW YORK

W.G. Cornell Co.
Plbg. Contractor

The Gimbel Brothers building of New York is equipped throughout with the most modern plumbing fixtures from the Wolff factories. The fixtures selected for this building will retain their attractive appearance and their efficiency of function and action throughout the life of the building itself.

L. WOLFF MANUFACTURING CO.

Established 1855

MANUFACTURERS
OF

Plumbing Goods Exclusively

The only Complete Line Made By Any One Firm

GENERAL OFFICES:

601 to 627 West Lake St., Chicago

SHOWROOMS:

111 North Dearborn Street, Chicago

TRENTON, N. J.

DENVER, COLO.

BRANCH OFFICES:

Omaha, Neb.

St. Louis, Mo.

Cleveland, Ohio

Kansas City, Mo.

Minneapolis, Minn.

San Francisco, Cal.

Washington, D. C.

Cincinnati, Ohio

Buffalo, N. Y.

Dallas, Texas

Salt Lake City, Utah

ARCHITECTURAL BOOKS

AN ARCHITECT who undertakes to do his work without the aid of books is undoubtedly placing himself at great disadvantage in his struggle to excel, or even succeed in his chosen field. A workman cannot do his best unless supplied with ample and appropriate tools. Only a genius can afford to disregard what has been accomplished by others and set down in books. Unfortunately geniuses are rare. The majority of people are not only willing, but eager to avail of any assistance obtainable.

The Book Department of The American Architect has been established for the purpose of rendering assistance to architects in the equipment of their libraries. Through it can be obtained any book devoted to architecture or allied subjects in print, and at prices that often effect considerable saving to the purchaser. This is particularly true where orders are for a number of works. Inquiries are solicited.

ADDRESS BOOK DEPARTMENT

THE AMERICAN ARCHITECT

50 UNION SQUARE, NEW YORK

Every good architect knows that **WHITE** and **NORWAY PINE** are all this advertisement claims—but many able and eminent architects do *not* know that there still is **PLENTY OF IT**—of the **SAME HISTORIC EXCELLENCE**—if secured from the Minnesota and Wisconsin forests.

YOU are **SAFE IN SPECIFYING WHITE PINE** (and Norway)—when the client asks for it — and when he does not but you know he **OUGHT** to have it, you can safely tell him so.



SASH & FRAMES



STAIR RAILS



COLUMNS, ETC.



Insist upon White Pine for Your House

(*"The Wood America is Mostly Built of."*)

The predominant use of White Pine in home building for more than 250 years demonstrates conclusively that this is the one wood chosen by the best judges for

Siding, Sash, Doors, Stair Railings, Exterior Trim, Pillars, Cornices, Pergolas.

Your carpenter will tell you it is the most *workable* wood. Your painter will tell you how well it takes and holds paint. Your own eyes will convince you of its beautiful texture, grain and finishing qualities.

The evidence of centuries of use (in buildings still standing) *proves* its durability.

Norway Pine, (the half-brother of White Pine) is the only wood that is "as good as White Pine" for most uses.

For sturdy, structural members of a house, such as roof-boards, studding, joists and sills, and for screen-doors and windows, Norway Pine is *ideal and its Cost is Low*.

The *kind* of wood you use is one of the most important factors in home building. Your architect will tell you how notably good White Pine is for all its proper uses.

Wherever carved wood-work is desirable, as in grilles, newel-posts, panelling, colonial pillars—White Pine is supreme—just as it has been for 250 years.

AND THERE'S "PLENTY OF IT" YET.

**WRITE US FOR COPY OF NEW FREE BOOK
"WHITE PINE VALUE IN HOME BUILDING."**

You will find it full of valuable ideas about how and why to use White Pine in **YOUR NEW HOME**. You can't afford to "go it blind" on this question. Write today for your copy of entirely **NEW** booklet.

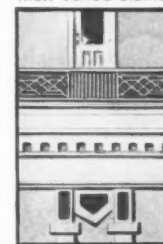
NORTHERN PINE Mfrs.' Assn..
1120 Lumber Exchange Minneapolis, Minn.



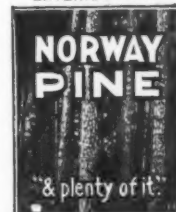
DOORS & TRIM



HIGH CLASS SIDING



EXTERIOR TRIM



Another Link in the Chain

*Pure Linseed Oil
in one and
five gallon
sealed tin cans*



*Guaranteed Pure
by the
Dutch Boy Painter
trade-mark*

The chain reaching from the architect to the completed painting job is composed of many links and the weakest of these represents the strength of the chain. Consequently every time one of these links is strengthened the whole chain is strengthened and the chances of securing a good painting job are increased.

One of the strongest of these links is the white lead, as the architect is able to specify white lead bearing the Dutch Boy Painter trade-mark, and his inspector can see that the painter brings this pigment on the job and uses it.

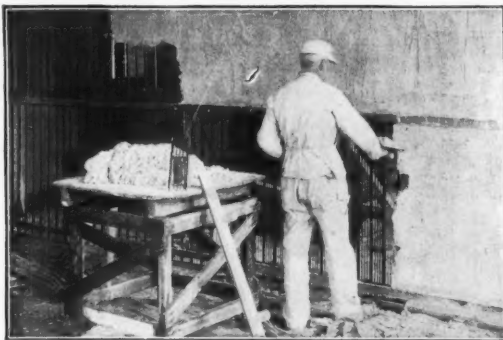
The linseed oil, however, has been different. The architect has been able to specify *pure* linseed oil, but he was not always certain that *pure* linseed oil was used.

This is all changed now, however. This new link in the chain is pure linseed oil packed in one and five gallon tin cans sealed at the spout to prevent tampering and bearing the Dutch Boy Painter trade-mark on the seal and on the side to guarantee the purity of the oil.

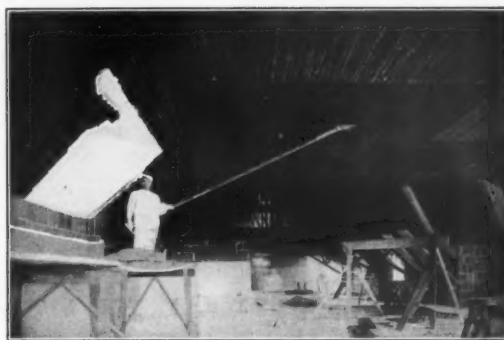
The architect may now specify pure linseed oil, Dutch Boy Painter trade-mark, and, what is more, may know as a certainty that this oil is used. He may, if he wishes, see the package broken.

National Lead Company

New York	Boston	Buffalo	Chicago
Cincinnati	Cleveland	St. Louis	San Francisco
(John T. Lewis & Bros. Co., Philadelphia)		(National Lead & Oil Co., Pittsburgh)	



HY-RIB Partition—Note ground for base-board and chair-rail



HY-RIB Ceilings—Mount St. Joseph Academy, Buffalo, N. Y.

HY-RIB Partitions and Ceilings—Add Strength and Save Money!

HY-RIB is a combined unit of steel lath and channels, providing a more rigid reinforcement, and saving the labor and time of wiring lath to studs. Merely set up the HY-RIB sheets, plaster both sides and the partition is complete. HY-RIB Partitions save space.

In Ceilings, HY-RIB does away with the small stiffening channels required with metal lath, saving the expense of wiring and simplifying construction. HY-RIB sheets are attached to lines of support, spaced three to five feet apart. HY-RIB provides a perfect key for the plaster.

For Floors and Roofs—HY-RIB saves wood forms, giving a construction light in weight and of great strength. HY-RIB is furnished in straight or curved sheets.



HY-RIB STEEL SHEATHING

In Walls and Sidings—HY-RIB provides a perfect reinforcement—stiff, rigid and economical. Used with stucco in hundreds of buildings of all types.

HY-RIB Hand Book contains complete information on many applications with details, specifications and illustrations. Sent FREE on request.

Waterproofing Concrete at Less than Half Price

By a newly discovered process the strength of TRUS-CON WATERPROOFING PASTE has been wonderfully increased so that only a little more than $\frac{1}{3}$ of the former amount is now required per cubic yard.

TRUS-CON WATERPROOFING PASTE CONCENTRATED is the result of a remarkable concentration of the colloidal-forming ingredients, reducing the necessary quantity of paste so that only



Five Pounds of TRUS-CON WATERPROOFING PASTE CONCENTRATED will Waterproof a Cubic Yard of Concrete



Mixed in the water used for the concrete and penetrates with it to all parts of the mass. Simple to use, doing away with all expensive and special mixing. Saves time and money. Positive in results. Does not weaken the concrete work in any way. TRUS-CON WATERPROOFING PASTE CONCENTRATED marks a new era in waterproofing of concrete. Absolutely the best and most economical.

Tell us about your waterproofing problems and we will furnish valuable suggestions, estimates and catalogue.

Hand Book on Waterproofing and Finishing — FREE

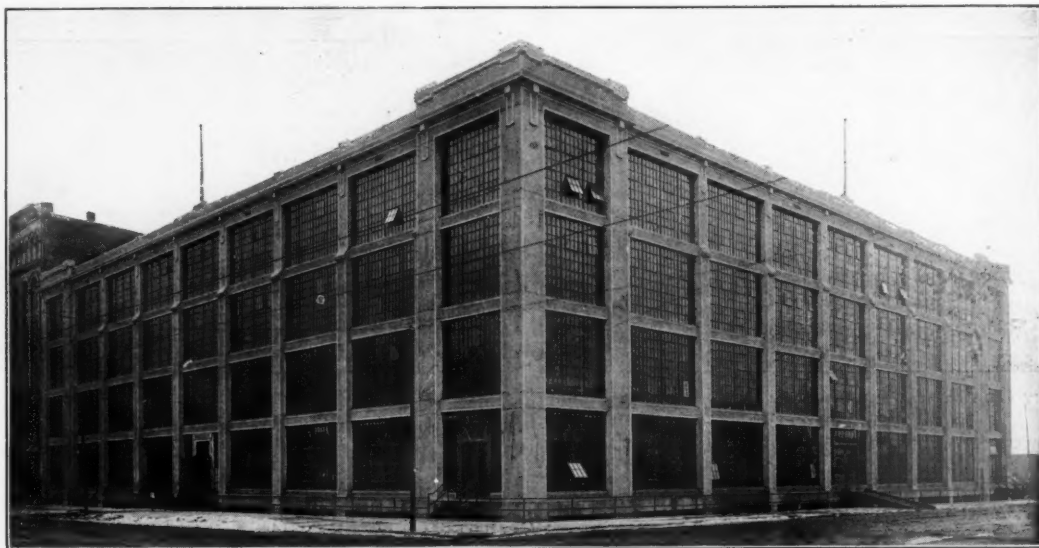
Contains the latest scientific and practical information on waterproofings, dampproofings and technical finishes for all structures of concrete, brick, masonry, plaster or steel. TRUS-CON COMPLETE HAND BOOK sent FREE, if you write us about your particular work.

TRUSSED CONCRETE STEEL CO.

DETROIT, MICHIGAN

Waterproofings—Dampproofings—Technical Paints



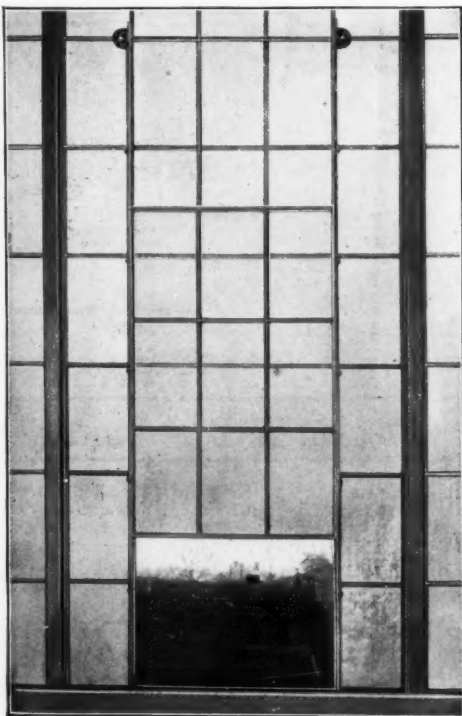


BEAVER POWER CO. BLDG., Dayton, O. Daylighted with UNITED STEEL SASH.—Schenk & Williams, Archts.

UNITED STEEL SASH — Maximum Daylight

Insuring use of all floor space, greater output per man, better quality of work, less waste of material and saving of artificial light.

UNITED STEEL SASH will not rot, warp nor burn. Combined under powerful presses from solid steel sections—unweakened by cutting or punching—absolutely weatherproof around all joints—improved glazing with special spring clips. Manufactured in all sizes and styles of Pivoted Sash, Sliding Sash, Casement Sash, Continuous Sash, Hinged and Sliding Doors and Steel and Glass Movable Partitions.



Vertical Sliding Sash with Spring Counter-Balance.

Vertical Sliding UNITED STEEL SASH Permit Use of Screens and Shades

United Steel Sliding Sash eliminate the projecting frames of pivoted ventilators—permitting use of shades, screens, etc. Easily cleaned and do not catch dirt when open. Prevent accidental injury of employees striking against projecting frames. Nothing to interfere with placing of machinery or fixtures. Maximum ventilation.

UNITED STEEL Sliding Sash are operated easily and quickly with spring counterbalances.

UNITED STEEL Sliding Sash are particularly useful in Creameries, Schools, Stores, Bakeries, Packing Houses, Candy Factories, Etc.

UNITED STEEL SASH Hand Book—104 large pages, containing complete information, details, tables, illustrations, etc. Sent FREE, if you write us about your building proposition.

TRUSSED CONCRETE STEEL COMPANY
DETROIT, MICHIGAN



THE AMERICAN ARCHITECT



1911-1912

ERNEST FLAGG
PRESIDENT
109 Broad St.
WILLIAM EMERSON
CHAIRMAN COMMITTEE ON EDUCATION
281 Fifth Avenue.
LLOYD WARREN
CHAIRMAN PARIS PRIZE COMMITTEE
3 E. 33d St.
F. H. BOSWORTH, JR., Treasurer, 1170 Broadway, New York.

A. B. TROWBRIDGE
RECORDING SECRETARY
114 E. 28th St.
MAURICE PREVOT
CORRESPONDING SECRETARY
115 E. 30th St.
GEORGE S. CHAPPELL
VICE PRESIDENT
345 Fifth Ave.

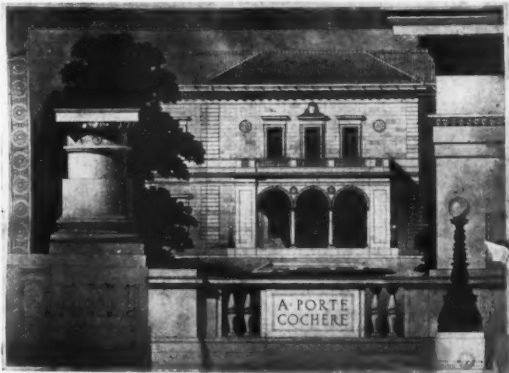
JUDGMENT OF DECEMBER 10th, 1912

CLASS "B"—I ANALYTIQUE (Order Problem) "PORTE COCHERE IN A PUBLIC BUILDING"

The Society has never before received so many drawings for any single problem. The average was only fair; the chief points of criticism being ignorance of shadows and an entire lack of appreciation of the structural needs of a vault. This last point was not seriously considered by the jury or the number of mentions would have been greatly reduced. Attention should again be called to the desirability of making all renderings in monotone; color should be eliminated from drawings of this class.

CLASS "B"—I PROJET (Problem in Design) "A DRIVEWAY THROUGH A PUBLIC BUILDING"

In judging this problem the jury considered the passage, its proportions and character, as the decisive element of the design. The room on the second floor was deemed



MENTION PLACED

J. P. WILSON, ATELIER, COLUMBIA UNIVERSITY

of subordinate interest. The staircases and accessory rooms which some students elected to give were disregarded altogether as being without the programme. The problem assigned was sufficiently difficult and comprehensive to warrant the student's entire attention. It is regrettable that so many students made the mistake of studying quite other problems than the one assigned.

The prevalent faults in plan were that the outside walls were often insufficient in depth to carry the façade—the columns or motives of passageway too close together resulting in a false scale; the two sides of the second story room were often dissimilar in treatment and its fenestration disregarded the axes of the first story so that a satisfactory façade would have been difficult, if not impossible.

The first mentions were awarded to those projets which, avoiding the above faults, had a good vaulting for the passage, a correct difference of character and scale between the first and second floors, interesting detail and good draftsmanship.

CLASS "A" & "B" ARCHAEOLOGY—I PROJET (Problem in Design)

"A COURT YARD" (In the Pompeian Style.)

An unusually high standard of excellence was shown in the drawings of this problem. The jury wishes to congratulate the authors on the appreciation of style and discriminating sense of color shown. It is to be regretted that a larger number of students does not find time to take these problems. The study that they require is of immense help and cannot fail to be of great interest as well.



MENTION PLACED

W. E. VOSS, BOSTON ARCHITECTURAL CLUB

OFFICIAL NOTIFICATION TO S. B. A. A. STUDENTS OF AWARDS MADE IN THE JUDGMENT OF DECEMBER 10TH, 1912

The Committee on Education in New York and its Local Committee in San Francisco received 378 Esquisses (Preliminary Sketches) and 229 Analytiques (Final Drawings) in the:—

CLASS "B"—I ANALYTIQUE (Order Problem) "PORTE COCHERE IN A PUBLIC BUILDING"

Author	Award	Atelier	City
Wilson, J. P.	M.Pl.	Columbia University,	New York.
Voss, W. E.	M.Pl.	Boston Archtl. Club,	Boston.
Dornin, A. H. (Miss)	M.Pl.	Columbia University,	New York.
Gander, C. J.	M.Pl.	"	"
Hirschfeld, L.	M.Pl.	"	"
Kane, J. B.	M.Pl.	Phila. Atelier, U. of P.,	Philadelphia.
Fuller, F. A.	M.Pl.	Ware, New York.	

The following students received "Mentions":—Agricultural and Mechanical College of Texas, College Station: E. J. Fountain, Jr.; Boston Archtl. Club, Boston: J. G. McGann, H. M. L. Giduz, C. W. Larson, W. M. Bacon, Jr., A. P. Shaw; Atelier Bennett-Rebori, Chicago: S. A. Rognstad, E. A. Pickworth; Atelier Bosworth, N. Y. C.: H. S. Klepper; Atelier Blum, N. Y.

THE AMERICAN ARCHITECT

C.: H. Sternfeld, S. Katz; Atelier Barber, N. Y. C.; H. Olson A. W. O'Keeffe, N. Shappard; Atelier Corbett, N. Y. C.; J. A. Tarry, W. Bartels, A. W. Lewis, F. S. Bigelow, G. Muth, R. F. Hammond; Cincinnati Archtl. Club, Cincinnati: E. Cebernack J. Postler, J. Schneider, G. Frankenberger; Carnegie Tech. Schs., Pittsburgh: C. H. Boyd, H. D. Brown, W. F. Diehl, J. P. Gander, J. Gelman, T. L. Gleason, E. R. Haselton, C. L. Kauffman, C. J. Lappley, H. C. Messerschmidt, J. P. Morgan, W. F. McCaughy, Jr., J. L. Ruth, O. J. Southwell, S. P. Stewart, W. R. Weigler; Columbia University, N. Y. C.: E. E. Bartos, C. F. Berlenbach, A. C. Bitterman, R. H. Bowden, R. G. Brackett, B. H. Brown, G. Buchtenkirch, A. N. Clough, G. F. Cordner, J. T. Egan, L. M. Giroux, J. R. Greenberg, G. P. Greene, A. C. Holden, P. S. Lacy, J. H. McDonnell, K. B. Norton, E. J. Robin, G. Ruffier, E. A. Salomonsky, R. H. Sinclair, S. E. Smith, F. J. Soper, M. F. Stead, K. Swenson, E. R. Thayer, H. V. Walsh, W. C. Weeks, R. C. Wilcox, O. J. Cooke, J. M. Gray, A. B. Grantham, M. J. Hartman, E. Kline, J. Pisciotto, W. C. Stohldrier, A. Heim; Cleveland, Archtl. Club, Cleveland: W. Hohl, G. Kellogg, F. J. Spissman, Jr., A. K. Murawsky; Drexel Institute, Phila.: F. Leswing, J. B. Thomson, C. W. Ziegler, P. L. Casselman, B. V. Gamber, S. Oppenheimer; Atelier Hornbostel, N. Y. C.: J. Wade; Atelier Hiron, N. Y. C.: G. Cortelyou, W. Sunderland, W. M. Gray, R. M. Rice; Kansas City Atelier, Kansas City: E. R. Meier, A. P. Goodwin, A. F. Baum, A. E. Barnes; Atelier Masqueray, St. Paul: E. H. Lundie, D. Carlson, E. Hafey, J. P. Cowie; Atelier Mathis, Atlantic City: W. S. Shull; Phila. Atelier, U. of P., Phila.: C. E. Keyser, Jr., G. B. Rothkugel, H. Raech, J. A. Hewitt, F. C. Stockholm, Jr., G. A. Schnabel; R. I. Sch. of Design, Providence: D. Dodd, C. Swanson; Syracuse University, Syracuse: R. J. Hannum, E. De Soto, W. E. Hinman, P. J. Hueber, T. M. Larson, R. Middlemass, E. C. Olcott, H. V. Trevenen, P. F. Watkeys, J. Dunkerley; Atelier Smith, Poughkeepsie: R. L. Swartout; St. Louis Archtl. Club, St. Louis: R. P. Ranft, A. W. Kluthe, E. Schuetz; Washington Archtl. Club, Wash., D. C.: J. Burch; Atelier Ware, N. Y. C.: W. Fuhrer, G. M. Mowbray, W. E. Keller, H. E. Matz; care of H. Greenley, N. Y. C.: F. Kronfeld, Jr., E. J. Shinn, 50 East 41st St., N. Y. C., M. Kugelman, 241 So. 3rd St., Brooklyn, N. Y.; Atelier Baur, S. F. A. C., San Francisco: W. A. Hubbard, H. Knudson, C. Reinecker, C. R. Schmidts, A. C. Whittlesey, M. T. Jorgenson; Atelier Brown, S. F. A. C., San Francisco: A. Bien, J. C. Davidson, B. J. Gordon, D. R. Gailey, L. Kruse, L. H. Keyser, E. Weihe; Atelier Rixford, S. F. A. C., San Francisco: R. M. Carlyon, R. Jenkins, A. H. Mellberg, G. L. Rosebrook, G. W. Reed, R. Shaw, H. W. Villalon; Atelier David J. Myers, Seattle: D. M. Clippenger, A. M. Russell, J. Sneeringer, W. Yates; Portland Archtl. Club, Portland, Oregon: L. Dittich, J. Stanton; Vancouver (B. C.) Archtl. Club, Vancouver, B. C., Canada: S. Dresser, S. A. Kayall.

The Committee on Education in New York and its Local Committee in San Francisco received 291 Esquisses (Preliminary Sketches) and 172 Projets Rendus (Sets of Final Drawings) in the:—

CLASS "B"—I PROJET (Problem in Design) "A DRIVEWAY THROUGH A PUBLIC BUILDING"

Author	Award	Atelier	City
Willard, S.	1st M.	Brown, S. F. A. C.,	San Francisco
Mennecke, H. F. C.	1st M.	Ware,	New York
Harrold, W. H.	1st M.	Carnegie Tech. Schs.,	Pittsburgh
Park, E. A.	1st M.	Columbia University,	New York
Chananie, A.	1st M.	Hornbostel,	New York
Laschenski, S. J.	1st M.	Phila. Atelier, U. of P.,	Philadelphia
Cowley, L. J.	1st M.	Ware,	New York
Johnson, R. M.	1st M.	"	"
Nilson, E. A.	1st M.	"	"
Dunham, P. C.	1st M.	Hirons,	"
Feldmann, L. W.	1st M.	"	"
Licht, L. C.	1st M.	Licht.	"

The following students received "Mentions":—Atelier Blum, N. Y. C.: H. Tresal, J. Weinberg; Atelier Barber, N. Y. C.: A. Leone, W. S. Pavey; Baltimore Atelier: L. H. Fowler, Baltimore, C. W. Koch; Boston Archtl. Club, Boston: H. B. Horner, J. N. Holden, J. A. Quirk, J. L. Venne, J. L. Kingston, F. N. Roberts, R. V. Donahoe; Cincinnati Archtl. Club, Cincinnati: L. J. Lefken, G. Frech; Carnegie Tech. Schs., Pittsburgh: L. W. Andrews, U. C. Bearinger, F. A. Berner, P. W. Bowman, B. Broude, C. A. Burckhart, L. H. Button, J. L. Emrick, J. B. Gay, J. B. Heard, V. C. Jorgenson, D. Kornblum, J. W. Phillips,

H. L. Rubin, L. O. Schwarz; Columbia University, N. Y. C.: H. G. Agne, W. C. Agnew, H. P. Bergen, B. B. Boyd, L. A. Coffin, W. H. Davis, F. L. Finlayson, M. E. Freehof, T. F. Hamlin, A. S. Hildebrand, H. Hopkins, J. C. Jaeger, L. Joseph, L. S. LaPierre, F. Latenser, T. C. Leon, G. Lindsley, F. B. Montanare, R. M. Morris, D. C. Pond, A. G. Ray, L. S. Schene, W. L. Ware, H. P. Zoller, M. Cohn, I. N. Court, A. W. Fraser, C. F. Hudson, P. Kasurin, A. W. McFarland, N. Mitchell, E. A. Ramsey, E. H. Schrader, E. A. Wikander, G. M. Allen; Atelier Corbett, N. Y. C.: H. B. Fleischmann, V. A. Trussell, F. F. J. Klebold, M. G. Lindquist, J. W. Clyde, H. E. Reeves, G. R. Denton, A. F. Weber; Drexel Institute, Philadelphia: G. Fulton, Jr., G. L. Neutz, E. L. Neumann, Jr., W. H. Uhler, Jr., S. Walborn; Georgia Sch. of Technology, Atlanta: W. E. Conklin, J. C. Dennis, H. H. Everette, T. F. Lockwood, H. S. McCrary, F. L. Rand, J. M. Russell; Atelier Licht, N. Y. C.: N. H. Behrens, F. Higginson, R. F. Martin; Phila. Atelier, U. of P., Phila.: A. N. Dobbins, G. Bencker, W. T. Kassman, L. V. Scherr, J. T. Brugger; R. I. Sch. of Design, Providence: T. S. McLaughlin, R. K. Merkle; Syracuse University, Syracuse: R. Graham, O. H. Graves, R. E. Tiffany; St. Louis Archtl. Club, St. Louis: E. R. Froese; Univ. of Penna., Sch. of Archt., Phila.: T. E. Ash; Washington Archtl. Club, Wash., D. C.: J. A. Weber, C. S. Mason; Atelier Ware, N. Y. C.: C. W. Porter, W. H. Baum; Atelier Wynkoop, N. Y. C.: F. J. Kuchler, H. S. Race, H. K. Davies; care of D. Barber, N. Y. C.: F. Ebberts; Atelier Baur, S. F. A. C., San Francisco: F. Allamand, R. T. Locke, T. L. Pflueger, C. F. Strothoff, R. Wyckoff; University of California, San Francisco: Margaret Loan, F. V. Mayo, E. E. Merrill, H. G. Bissell, R. V. Crites; Atelier Brown, S. F. A. C., San Francisco: L. A. Bryant, H. E. Burnett, C. I. Harrison, F. Jones, F. Kramer, T. Kent, H. Michelson, M. W. Morrison, P. J. Malony, A. I. Rouda, L. Starks, C. A. Tantau, H. C. White.

The Committee on Education in New York and its Local Committee in San Francisco received 136 Esquisses (Preliminary Sketches) and 16 Projets Rendus (Final Drawings) in the:—

CLASS "A" & "B"—ARCHAEOLOGY—I PROJET (Problem in Design) "A COURT YARD" (In the Pompeian Style)

Author	Award	Atelier	City
Harcos, A.	3d M.	Atelier Baur, S. F. A. C.,	San Fran.
Beshgetoorian, H.	3d M.	Columbia University,	New York
Harbeson, J. F.	3d M.	Phila. Atelier, U. of P.,	Phila.
Wigham, E. H.	3d M.	Phila. Atelier, U. of P.,	Phila.
Bendell, T.	3d M.	U. of P., Sch. of Archt.,	Phila.
McLachlan, D.	3d M.	Hirons,	New York
Anthony, N. T.	3d M.	Ware,	New York

The following students received "Mentions":—Atelier Corbett, N. Y. C.: C. F. Kupatt; Washington Archtl. Club, Wash., D. C.: W. B. Cash; Atelier Baur, S. F. A. C., San Francisco: F. Allamand; Atelier Brown, S. F. A. C., San Francisco: L. A. Bryant M. W. Morrison, E. Weihe; Portland Archtl. Club, Portland Oregon: J. Bauman, R. E. Collins.

The Committee on Education in New York and its Local Committee in San Francisco received 4 Measured Drawings in the:—

CLASS "A" & "B" ARCHAEOLOGY—I MEASURED DRAWINGS

Author	Award	Atelier	City
Crump, E., Jr.	3d M.	Carnegie Tech. Schs.,	Pittsburgh
Wilson, J. V.	3d M.	" " "	"
Fitzgibbon, T. D.	M.	" " "	"
Bearinger, U. C.	M.	" " "	"

A CORRECTION

In the announcement of December 4, the illustrations of design in Class "A" projet was designated as a moving picture establishment. This was an error. The correct title is "A City Residence."

CURRENT NEWS AND COMMENT

ELECTION OF OFFICERS AND FELLOWS, AMERICAN INSTITUTE OF ARCHITECTS

The election of officers for the ensuing year of the American Institute of Architects, held on December 12, the closing day of the convention, resulted in the re-election of the officers then serving, as follows: President, Walter Cook; first vice-president, R. Clipston Sturgis; second vice-president, Frank C. Baldwin; secretary and treasurer, Glenn Brown; directors, for term of three years, Burt L. Fenner, C. Grant La Farge, and H. Van Buren Magonigle.

The following associate members were elected to fellowship: William D. Austin, W. Dominick Benes, Henry Clay Carrel, Walter B. Chambers, Clinton Day, Wm. Adams Delano, L. C. Holden, Walter G. Peter, Arthur Wallace Rice, Charles A. Rich, Horace Wells Sellers, Frank E. Wallis, Arthur F. Woltersdorf.

THE WASHINGTON, D. C., CITY PLAN

The Board of Trade of the City of Washington, D. C., decided at a recent meeting that it would continue its own campaign in the interests of the McMillan Park Commission plan for development, irrespective of other movements now on foot.

OREGON CHAPTER A.I.A. ELECTS OFFICERS

At the annual meeting of the Oregon Chapter of the American Institute of Architects, held November 13th, the following officers were elected for the ensuing year:

Edgar M. Lazarus, president; John Wilson, vice-president; Harrison A. Whitney, secretary and treasurer; Morris H. Whitehouse and Ellis F. Lawrence, trustees.

OHIO'S STATE BUILDING CODE

It is gratifying to note that in the proceedings being taken by the State of Ohio to formulate a State Building Code, members of the architectural profession in the various cities have been called on for suggestions as to proposed features and for criticisms of those that it is intended to incorporate in the regulations. This is so unusual as to be worthy of comment. As a rule these matters appear to have been generally left in the hands of those most likely to benefit by certain provisions, and the general procedure has been one so purely political in its aspect that it is with satisfaction we learn that the State is disposed to avail of the counsel and experience of a class of men who are undoubt-

edly best qualified to suggest the features of a code that will most satisfactorily cover the requirements of the entire State.

A EUROPEAN TOUR FOR CITY PLANNERS

The American Civic Association has issued a prospectus of a European tour during next summer which is being arranged for by the Association. The purpose of this tour is to afford American students of civic problems an opportunity to observe conditions in European cities and by personal inspection learn what is being accomplished in industrial housing and also something of the general features that have been adopted by men engaged in solving the problems of the city plan in the capital cities of Europe.

PANAMA-PACIFIC EXPOSITION

It is stated in the local press that Mr. J. E. D. Trask, formerly Director of the Pennsylvania Academy of Fine Arts, has been appointed Chief of the Department of the Fine Arts of the Panama-Pacific International Exposition at San Francisco. Mr. Trask's long experience in the directorship of art institutions eminently qualifies him for the position to which he has been appointed and he is quoted as saying that he hopes to get together an exhibition of the Fine Arts that will be more comprehensive, more educational and of greater general interest than any exhibition of the Fine Arts heretofore attempted.

PERSONAL

Harding & Upman, architects, Washington, D. C., announce that they have dissolved partnership.

All work now under contract with them will be carried out by Mr. Harding, who will continue in the present offices, 1126-29 Woodward Building.

Mr. Upman has opened offices for an independent practice at rooms 1003-6 Woodward Building.

Robert W. Hunt & Company, engineers, who have maintained offices and testing laboratories in the Rookery Building, Chicago, for a quarter of a century, have moved to the Insurance Exchange Building on Jackson Boulevard between Sherman Street and Fifth Avenue, the same city.

Mr. William L. Bell, architect, informs us that he has opened an office in Atlanta, Ga., where he will practice his profession. He desires to receive manufacturers' catalogues and samples.

INDUSTRIAL INFORMATION

In this section will be found information concerning late catalogues issued by manufacturers of building materials, fixtures or equipment. Also under this head will be printed, from time to time, certain data relative to new devices or methods of construction considered to be of interest to architects. Architects are invited to make use of THE AMERICAN ARCHITECT'S Catalogue Files and Information Department whenever they can do so to advantage. Any assistance we can render or information we can furnish in this connection will be freely given.

SAFETY ELECTRICAL APPLIANCES

In order to reduce the risk of fire from overheating electric irons and cooking devices, the National Board of Fire Underwriters is said to have recommended that an incandescent lamp of low candle power be connected in multiple between all electric heaters and the switch controlling the same. This will show at a glance if the circuit has through oversight been left on.

The Hart & Hegeman Manufacturing Company of Hartford, Conn., have produced a device to meet this recommendation. A small 125-volt lamp is mounted on a porcelain base and attached to a regular flush plate having a cut-glass ruby bullseye in center so that the light of the lamp will show through the bullseye when the heater is in circuit. It is believed that this device will be generally adopted when the recommendation of the underwriters has had time to have its full effect.

ARCHITECTURAL IRONWORK

Illustrated catalogue No. 22, issued by Price-Evans Foundry Company, Chattanooga, Tenn., illustrates designs for architectural ironwork made by this company. Many different types of iron stairways, metal awnings, window guards, balcony railings, elevator enclosures and the various structural features and utilities that enter into a line of architectural iron are shown in this catalogue, which may be had on application.

WATERPROOFING PROCESSES

The Hydrex Felt & Engineering Company, 120 Liberty Street, New York, have issued a sample book of Hydrex-Novento, a waterproofing sheathing and insulating paper that they supply in one, two and three ply. This waterproofing material, the makers claim, is an airtight and impervious lining for use under floors, siding, tile, slate, stucco or tin. The manufacturers further state that the material contains no coal tar or other ingredients in its preparation that will cause injury to any metal surface, with which it may come in contact.

Sample books showing the various thicknesses of this waterproofing material may be had on application.

ISOLATED ELECTRIC LIGHTING PLANTS

The Fay & Bowen Engine Company, Geneva, N. Y., have issued a pamphlet illustrating and describing a system of isolated electric lighting and power plants, of which they are the designers and manufacturers. Many conveniences that are to be secured by means of isolated plants are illustrated

and described in this booklet, from the modern application of electricity in cooking and other domestic services, to its social side in the illumination of the house and its dependent buildings such as garages, stables, etc.

The pamphlet will be found interesting as showing the many adaptations of electricity in daily use, and may be had on application.

MONOGRAM FANS

The B. F. Sturtevant Company, Hyde Park, Boston, Mass., with branch offices in principal cities, have issued a pamphlet describing a line of blowers and exhausters that are designated as "Monogram." These fans are built for delivering large volumes at moderate pressure, and are supplied either as blowers or exhausters in four discharges, either right or left hand. They are adapted, it is stated, for direct connection to electric motors, steam turbines or belt drive from engine, motor or countershaft. The illustrations would appear to indicate a very compact fan and one to which more care in design has been given than is customary with utilities of this nature.

CHAINS

The American Chain Company, Sherrill, New York, are makers of weldless steel and wire chains for special purposes. A series of pamphlets recently issued show a large variety of patterns of chains adaptable for purposes to which chains are applied. Particular reference is made to a new type of galvanized sash chain which, the makers state, harmonizes with any interior finish. These chains, it is claimed, will not rust and being made from steel will, in case of fire, support their load long after chains of less fire resisting material have become worthless. The makers are desirous of demonstrating to architects the merits of their product and ask an opportunity to send the descriptive and illustrative pamphlets referred to.

BOILERS AND RADIATORS

Catalogue No. 858 issued by the H. B. Smith Company, of Westfield, Mass., with offices in New York, Philadelphia and Boston, describes the various types of boilers and radiators made by this company. Particular mention is made of the Mills Water Tube Boiler, a boiler tested to 125 pounds water pressure and which the makers claim combines every essential of a high grade boiler.

Illustrations are also shown in this catalogue of a line of direct and direct-indirect radiators.

Dark Weatherbeaten Gray

—the real old Coast-of-Maine tone, seen from Kennebunk to Monhegan, Matinicus and Machias—is exactly reproduced by

No. 1092 Special of Cabot's Creosote Stains

Send for a Sample Shingle.

SAMUEL CABOT, INC., Mfg. Chemists, Boston, Mass.
1133 BROADWAY, N. Y. 350 DEARBORN AVENUE, CHICAGO

AGENTS EVERYWHERE

Cabot's Quilt, Waterproof Cement and Brick Stains

Conserve Wood Preservative, Damp-proofing, Waterproofing



Residence of Walter M. Collins, Builder, Bayside, who writes:
"The side walls are of 24" red cedar shingles stained with your Special Gray and laid over your single-ply 'Quilt.' The Quilt is certainly a good investment, as the house is in a very exposed position, and after the hardest winter in years, without a frozen pipe or any difficulty in heating, I feel that the small additional cost over ordinary building paper has already been saved in coal and comfort."

The Comfort and Satisfaction of Your Client are Assured when You Specify

THE STANDARD SYSTEM

of Automatic Temperature and Humidity Control

HOT WATER
CONTROL

DRY ROOM
CONTROL

DAMPER
CONTROL

PRESSURE
CONTROL

THREE-WAY SWITCH
CONTROL

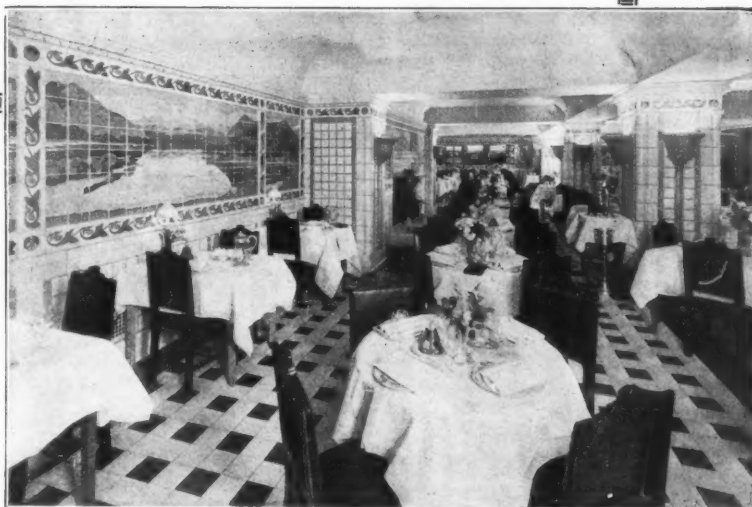
STANDARD REGULATOR COMPANY

NEW YORK—PHILADELPHIA

EMPHASIZE

your creative ability!

Teco Inn



Minneapolis

This result was accomplished with the EYE COMFORT SYSTEM—the most flexible system of illumination made.

The EYE COMFORT SYSTEM furnishes you the scientific appliances and engineering skill to effectively emphasize your originality in design through the potent medium of a harmonious flood of mellow light.

Have you our loose-leaf book?

Chicago
245 W. Jackson Blvd.

NATIONAL X-RAY REFLECTOR CO. New York
505 Fifth Ave.

THE EYE COMFORT SYSTEM
THE ALL-NEW X-RAY REFLECTOR
THE MOST FLEXIBLE SYSTEM

BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

SELMA.—The city school board of Selma has accepted the plans of William T. Warren, of Birmingham, for the new high school building, which will shortly be erected on Tremont St., in the western part of the city. When completed the building will cost \$35,000, and will be a 3-story structure.

CALIFORNIA

GRASS VALLEY.—Plans are now being drawn for new \$65,000 Federal Post Office building in Grass Valley.

LONG BEACH.—A 5-story building will be erected at the northwest corner of Ocean and Locust Aves. by J. B. Barnett and R. H. Moore. The building will be an apartment house and will cost \$150,000.

LOS ANGELES.—Architect E. J. Borgmeyer, Stimson Bldg., is preparing plans for a 5-story apartment house to be erected for Julius Smith.

OCEAN PARK.—Plans have been prepared by Architect John B. Nicholson, Wright & Callender Bldg., for a 3-story apartment house to be erected for Ward Dawson.

SACRAMENTO.—State architect is preparing plans for proposed Woman's Building at State Fair grounds. Legislature will be asked to appropriate \$50,000 for construction of same.

SAN FRANCISCO.—Architect John Graham, Lyon Bldg., Seattle, associated with William Knowles, Hearst Bldg., San Francisco, have prepared plans for a 3-story factory to be erected on Harrison St. for Ford Motor Car Company; cost, \$250,000.

SAN JOSÉ.—Plans are being prepared by Architect F. D. Wolfe, Smoot Bldg., for a 2-story apartment house to be erected for J. D. Wolfe; cost, \$14,000.

SANTA CLARA.—The Board of Education has instructed clerk to advertise for bids for the construction of a new grammar school building on the school lot bounded by Fremont, Harrison, Madison and Monroe Sts. The bids will be opened January 6.

WILLOWS.—Congressman William Kent, of California, has been assured an appropriation of \$75,000 for a Federal building to be erected at Willows, Glenn County, for Post Office and Agricultural Department uses.

COLORADO

CANON CITY.—Architect J. M. Gile has been selected to prepare plans for the new Odd Fellows' Home to be built at Canon City. It is the intention to have the contract let and work started in early spring. The cost of the building is not to exceed \$40,000.

COLORADO SPRINGS.—Bids will be asked shortly for the construction of thirteen buildings at the Myron Stratton Home for the Poor, at \$250,000 approximate cost. In all sixty-five buildings are to be erected. The site of the home is the old Broadmoor dairy farm of 3500 acres.

CONNECTICUT

BRIDGEPORT.—Plans drawn by Architect Leonard Asheim are being figured for a building at the corner of East Main and Jane Sts. for J. Ostrofsky. The structure will be one story high.

Plans drawn by Architect Joseph W. Northrop, Court Ex. Bldg., are being figured for the new building on Main St. for the Hawley Hardware Co. and the Alling Rubber Co. The contract will be let shortly.

Plans are being drawn by Architect E. G. Southey, Broad St., for a residence to be built at Brooklawn, overlooking the Brooklawn Country Club, for Mr. and Mrs. Frederick B. Curtis, 538 Laurel Ave.

BRISTOL.—Architects Sperry & Buell, Inc., are preparing the plans for a new house to be erected on Grove St. by Stanley P. Rockwell.

HARTFORD.—Architect Isaac Allen, Jr., is preparing plans for remodeling of the P. M. D'Esopo building at corner of Main and Gold Sts., to cost between \$30,000 and \$50,000.

NEW BRITAIN.—The Odd Fellows have plans for 1913. Preliminary sketches of a new building, to be the home of all the Odd Fellow lodges in this city, have been prepared. The building will be four stories in height. The plans which have been submitted thus far call for the erection of a building that will cost in the neighborhood of \$45,000.

NEW BRITAIN.—The Odd Fellows' Building Association is planning the erection of new home in Arch St. to cost about \$45,000.

WATERBURY.—Plans are being refigured for the residence to be erected on Hillside Ave. for George A. Goss. The plans were prepared by Architects Ewing & Chappell, of New York City, and provide for a 2-story brick house.

Plans have been completed for the factory to be erected on South Main St. for the American Brass Co. It will be built of brick and steel and will be 1 story high. J. R. Coe is the engineer.

WATERBURY.—Architect Joseph T. Smith, 36 N. Main St., has completed plans for enlarging and remodeling Donato Mancini's house on Pilgrim Ave.

DELAWARE

CLAYMONT.—Architects Savery, Scheetz & Savery are designing a group of buildings, to cost \$75,000, for the Delaware Industrial School for Girls.

WILMINGTON.—Architect Roscoe C. Tindall, Equitable Building, is preparing plans for an elaborate apartment house to be built at 18th and Tatnall Sts. for Frederick Bringham. The building will contain eight apartments and will be a 4-story brick, constructed along Colonial lines. The building will cost about \$25,000.

FLORIDA

JACKSONVILLE.—C. D. Mills, florist, is now advertising for bids for the erection of one of the most modern apartment houses in the city, to contain twelve apartments. The building will be erected on Seventh St., facing south, between Main and Hubbard Sts. The plans have been drawn by W. R. Camp, Livingston Bldg., the well-known architect.

GEORGIA

AUGUSTA.—Right Rev. J. B. Keiley, bishop of the diocese of Savannah, has accepted the proposal of Augusta business men that St. Joseph's Academy, recently destroyed by fire at Washington, Ga., be rebuilt at Augusta. Definite plans for the reconstruction of the school have not, of course, been decided upon, but there will be no delay in erecting at this city one of the finest female colleges in the South.

SAVANNAH.—The Hibernia Bank has just about accepted plans submitted by New York architects for a new home.

Barrett Specification Roofs

A Mile of Barrett Specification Roofs

The wonderful Bush Terminal in Brooklyn, N. Y., illustrated below, includes 181 buildings, comprising tremendous warehouses, enormous pier sheds for docking ocean steamers, huge factory buildings, a large modern power house and an enormous freight structure.

These buildings stretch for a mile along New York harbor. Their total roof area is 3,100,000 square feet—more than seventy acres.

This entire area was covered with Barrett Specification type of roofs, for the following reasons:

1. Low first cost.
2. No maintenance expense, such as painting, etc.
3. They are not injured by steam, gases and acid fumes.
4. They are fire retardant and take the base rate of insurance.
5. The net unit cost, that is, the cost per foot per year of service, is lower than that of any other type.

Although some of the buildings are fifty years old, the roofing contractor states that the expense for maintenance of this entire roof area has been less than

\$10.00. He estimates that if metal or ready roofings had been used, it would have been impossible to keep the buildings free from leaks and that the painting bill alone up to date would probably have amounted to at least \$50,000.00.

We wrote to the Bush Terminal Company, asking what they thought about Barrett Specification Roofs. The Vice-President replied:

"We use this kind of roofing because our experience has shown it to be the best and cheapest. Our analysis of first cost of application and cost of maintenance entitles us to speak with some measure of authority."

We shall be pleased to mail architects, engineers or owners of buildings copy of the Barrett Specifications with diagrams from which blue prints can be made. Address our nearest office.

Barrett Mfg. Company



New York, Chicago, Philadelphia, Boston, St. Louis, Cleveland, Pittsburgh, Cincinnati, Kansas City, Minneapolis, Seattle, Corey, Ala. The Paterson Mfg. Co., Ltd.—Montreal, Toronto, Winnipeg, Vancouver, St. John, N. B.; Halifax, N. S.

Special Note

We advise incorporating in plans the full wording of The Barrett Specification, in order to avoid any misunderstanding.

If any abbreviated form is desired however the following is suggested.

ROOFING—Shall be a Barrett Specification Roof laid as directed in printed Specification, revised August 15, 1911, using the materials specified, and subject to the inspection requirements.



to stand on the corner of Bay and Drayton Sts. The plans which have been submitted show a 1-story marble building.

ILLINOIS

CHICAGO.—A syndicate represented by Bertram M. Winston has purchased through White & Tabor 766 front feet of vacant property in the Chicago harbor terminal district from three different owners. The syndicate will improve these properties with large manufacturing buildings. Mr. Winston says that over \$1,000,000 will be invested in improvements.

Vacant property at the southeast corner of West Van Buren and South Morgan Sts. has been purchased by George E. Spry as the site for an 8-story manufacturing building to cost \$125,000.

EDWARDSVILLE.—The Madison County Mausoleum Company, incorporated under Illinois laws, have purchased a section of Woodlawn Cemetery at Edwardsville as the site for a \$30,000 mausoleum to be erected next spring.

LINCOLN.—Architects Deal & Ginzel, Oglesby Building, have completed plans for the proposed new I. O. O. F. building which will be erected on the east side of square. It will be five stories in height.

INDIANA

GARRETT.—City expects to erect city building early in spring, and would like to correspond with a few architects. W. W. Mountz, City Clerk.

HUNTINGTON.—Architect G. M. Taylor of Newcastle has prepared plans for new \$20,000 school building which will be erected next year. Bids will be received from contractors February 2.

INDIANAPOLIS.—Plans for a five-story fireproof apartment hotel, which the Modern Apartments Corporation recently announced it would erect in the west side of Pennsylvania St., between Pratt and St. Joseph Sts., have been prepared. The estimated cost of the hotel is \$300,000. The building will contain 226 rooms.

INDIANAPOLIS.—A 3-story business block will be erected at 223-225 East Ohio St. for the Lyman Bros. Portrait and Picture Frame Company. Marshall E. VanArman, the architect, has prepared the plans and work will be started early in 1913. The estimated cost is between \$20,000 and \$25,000.

The National Motor Vehicle Company has submitted plans for an addition to its factory at Twenty-second St. and the Monon railway tracks to the city building inspection department for approval. The addition will be a 3-story brick structure.

The Indianapolis Board of School Commissioners has authorized the preparation of plans and specifications for a new 8-room school building to take the place of School No. 21, at Southeastern and Temple Aves. It is proposed to erect the building next year, and contracts probably will be let during the winter.

KENTUCKY

WINCHESTER.—Plans for the new library building at Kentucky Wesleyan College will be drawn up at once and work on the structure is expected to begin in early spring. The committee from the Board composed of Dr. Deering, Dr. E. G. B. Mann, of Lexington, and President J. L. Clarke, of the college, will formulate a rough draft of the proposed building to be given to an architect immediately and the plans should be under way in a short while. The building will be a \$15,000 structure, paid for by Mr. Carnegie.

LOUISIANA

NEW ORLEANS.—A new home for the Society for the Prevention of Cruelty to Children, to take the place of

the present home, has been decided on definitely. Plans and specifications for the new institution will be drawn soon.

MARYLAND

BALTIMORE.—The State Normal School Commission has decided to invite about half a dozen Baltimore architects to submit designs for the new Normal School building to be erected near Towson, and for which \$600,000 has been appropriated.

Another large warehouse is a probability for the central section of the city. Charles C. McColgan is having plans prepared for a 6-story, reinforced concrete structure, and builders will be invited to estimate within a few days.

BALTIMORE.—William B. Hurst and others, representing John E. Hurst & Co., have purchased vacant site on Lombard St., east of Hopkins Pl., and are planning improvement of same.

BALTIMORE.—Details of the new building for the Canton Company which was announced a few days ago have been filed with the office of the Building Inspector. The proposed structure will be located at the corner of Aliceanna and Chester Sts. It will be a 5-story building. Cost, \$40,000.

FREDERICK.—Architect John B. Hamme, W. Market St., York, Pa., has been selected as the architect for the state armory to be built in Frederick. It is expected that the plans will be in readiness to ask for bids about February and that actual work will begin early in March.

MASSACHUSETTS

BOSTON.—The site for the Tabernacle Baptist Church has been secured. John C. Kiley has announced that the two churches had purchased a tract on Huntington Ave., adjoining Symphony Hall. Architects will start work shortly on specifications for the new edifice.

A committee of the proprietors of the Boston Athenaeum has decided in favor of the erection of a new fireproof building on the site of the present structure at 10½ Beacon St.

HOLYOKE.—Rev. John O'Connell, pastor of the St. Ann's parish in Fairview, is planning the erection of new rectory to be located on site adjacent to the church building.

NEW BEDFORD.—Plans have been prepared by Architect Louis E. Destremps, N. B. Theater Bldg., for a new Star Store with a new front both on Union and Fourth Sts. The plans provide for a complete reconstruction of the exterior of the building. Estimated cost, \$300,000.

MINNESOTA

DULUTH.—Board of Education is receiving plans for the proposed R. E. Denfield school building. The first prize in the competition will be the adoption of plans for the building, to cost \$100,000. The second prize will be the acceptance of plans for the E. R. Cobb building to be put up at Woodland.

Architect F. E. Johnson, of Superior, is preparing plans for a modern brick apartment building to be erected at a cost of \$20,000 at 18th St. and Tower Ave., Superior, for Michael Murphy. The structure will be a 2-story, 6-apartment house.

DULUTH.—The Colonial Theater Co. will erect a building at 325 N. Central Ave., West Duluth. The auditorium will seat 1,200 and the balcony 400. J. J. Wangenstein is architect. Cost, \$25,000.

A 3-story brick block to cost \$40,000 will probably be built by E. G. Wallinder at the five corners of Grand Ramsey and 57th Ave.

FARMINGTON.—Bids will be taken till Jan. 8 for the construction of St. Michael's Church by the architect, E. J. Donahue, Gilfillan block, St. Paul; Rev. J. R. Power is pastor.

A most desirable finish for the interior walls of any building,

Pee Gee Flatkoatt
is practically a necessity
for Hospital Walls

or wherever sanitation is the paramount consideration.

Its impervious hardness and durability increase with age, and it will stand all kinds of wear and tear. Yet, in appearance, it is soft and restful.

And, best of all, it can be cleaned by simply washing with soap and water.

A handsome book, entitled "Modern Method of Finishing Walls," containing practical information, will be sent on request.

Peaslee-Gaulbert Company

407 West Main Street

LOUISVILLE, KY.

INTERNATIONAL FALLS.—Plans are being drawn for the construction of an \$8,000 church building, to be erected by the Congregational Church in the early spring. Rev. E. L. Heermance is in charge of the work.

ST. PAUL.—The Crex Carpet Co. is planning to erect new \$500,000 plant in the Midway district.

MISSOURI

ST. LOUIS.—The John S. Blake & Brothers Realty Company reports the sale of a site on the north side of Clayton Ave., a short distance east of King's Highway, to John Hoefer, who intends to erect a modern 7-room brick residence.

The Board of Children's Guardians and city officials, including Mayor F. H. Kreismann, have agreed upon a site for the new industrial school at Fort Bellefontaine, on the Missouri River. An appropriation of \$150,000 has been set aside for the school.

The purchase by the English Evangelical Lutheran Mount Calvary Congregation of the site at the corner of Union and Wells Aves. gave public intimation of the project to erect a new house of worship to replace the present one, on the west side of Euclid Ave. just north of Easton Ave. Cost, \$30,000.

ST. LOUIS.—President W. S. McChesney of the Terminal Railroad Association has been directed by the Terminal Board to prepare plans for a handsome terminal station for the electric lines on the upper roadway of the Eads Bridge at 3rd St. and Washington Ave., facing Bridge Sq. The structure will be 3 stories. The cost of the improvement will be probably \$100,000 and will be borne by the Terminal Association exclusively.

ST. LOUIS.—A large site on Berlin Ave. has been purchased by Edward E. Wall, water commissioner of St. Louis, as the site for a 9-family apartment plant of the highest type.

Architect Henry A. Wagner, 407 N. 8th St., is now preparing plans for the two apartment buildings to be erected on Berlin Ave., west of Union Boulevard, by E. E. Wall.

MONTANA

MILES CITY.—The Presbyterians will erect a new modern church to cost \$30,000.

NEBRASKA

OMAHA.—Fred. H. Krug has purchased a site at 33d and Lincoln Boulevard, on which he will erect a modern residence to cost about \$20,000.

F. O. Moburg, president of the Rex Co., whose plant at East Omaha was recently burned, has announced the plant will be replaced with a fireproof structure.

NEW JERSEY

IRVINGTON.—The Irvington Board of Education has adopted plans for a building to cost about \$70,000. The proposed structure will adjoin the present Grove St. School.

LIVINGSTON.—Bids will be received by the Board of Education, School District of Livingston, N. J., until 8 p.m., December 30, 1912, at Public School No. 1, Livingston, N. J., for the erection of a public school building according to plans and specifications prepared by Ernest E. Twist, architect, News Bldg., Passaic, N. J.

NEWARK.—A large 3-story fireproof garage will be erected shortly on the corner of Passaic Ave. and Brill St., at a cost of about \$40,000, for Christian Feigenspan, corporation. The structure has been designed by Hooper & Co., 122 Market St.

An extensive addition will be added to the plant of the Atha Tool Company, in Chapel St., which will involve an outlay of about \$100,000. The work will include a main building three stories high, 2-story grinding and polishing

building, 1-story forge shop and 1-story boiler-house. Architect Frederick A. Phelps, 11 Clinton St., has completed plans for the buildings.

NEWARK.—Plans are in course of preparation at the office of Architect Edward V. Warren for a modern 4-story brick apartment building on the corner of Summer and Delavan Aves. The structure, which will be owned by the Roseville Construction Company, will cost in the neighborhood of \$45,000. Estimates for the work will be taken shortly.

Estimates are being received at the office of Architects Hughes & Backoff for 2½-story suburban type of residence, which Mrs. Theodora Theilen proposes to erect on the corner of Abington Ave. and Parker St., at an approximate cost of about \$15,000.

PERTH AMBOY.—Plans are being completed by Architects J. K. Jensen and G. W. Brooks for a modern fireproof factory building to be added to plant No. 2 of the Fords Porcelain Works, at Lehigh Ave. and Stockton St., of which Abel Hansen is the proprietor. It will extend west from the present plant and will be constructed of brick at a cost of approximately \$16,000.

PRINCETON.—Plans have been drawn for the erection of new boathouse to cost \$35,000 for Princeton College. Contracts will shortly be awarded.

PRINCETON.—The First National Bank of Princeton has purchased the property, 88 Nassau St., adjoining its present building, and will erect a 5-story addition of brick and stone.

VENTNOR.—Frank T. Seeburger is planning two 2½-story cottages for John Stafford to cost \$24,000.

NEW YORK

BROOKLYN.—A 12-story office building will be erected for the Brown-Weiss Realty Company on the site of the old Academy of Music in Montague St., between Clinton and Court Sts. The estimated cost is \$616,000, and the building will be constructed under the supervision of the architect, Emery Roth.

Architect Benjamin Driesler, 153 Remsen St., has prepared plans for new theater to be erected at Bedford and Flatbush Aves.

HORNELL.—Bank of Seneca has purchased site at corner of Main and Seneca Sts., and will shortly erect a modern bank building to cost about \$50,000.

HORNELL.—Frank B. Peck has sold to the Bank of Steuben the site at the corner of Main and Seneca Sts. On this lot the bank will erect as soon as it can a modern bank building to cost \$50,000.

HUNTINGTON, L. I.—The new Liederkrantz Hall will be erected at Huntington by the Liederkrantz Society, whose membership is made up of some of the most prominent residents of the town. The plans are being designed by their architects, Adolph Martin, 34 W. 28th St., Manhattan, and Frank C. Schaeffler. Cost about \$15,000.

ITHACA.—Plans for a large addition to Lincoln Hall have been made public by the building committee of the board of trustees. With the addition the structure will be in the form of a hollow square. The architects estimate the cost will be \$325,000. Architects are Trowbridge & Ackerman, of New York.

NEW YORK CITY.—Architects McKim, Mead & White, 160 Fifth Ave., have filed plans for a 6-story dwelling to be erected on Park Ave., corner of Sixty-ninth St., for G. Redmond, 309 Fifth Ave.; cost, \$200,000.

Plans have been filed by Architects Hazzard, Erskine & Blagden, 437 Fifth Ave., for a public comfort station to be erected on Eighth Ave., corner of 129th St., for city; cost, \$20,000.

Architect M. W. Del Gaudio, 401 Tremont Ave., has filed plans for a 5-story brick apartment to be erected on 180th St. for Pasquale D'Auria, 670 East 180th St.; cost, \$40,000.



Copyright, 1912. Edwin Levick. New York

Everywhere In Town—

In offices, stores and factories—in hotels, theaters, schools, apartments and clubs—there's the place for

GRINNELL
AUTOMATIC SPRINKLERS

The valuables in the Bankers Trust Building, shown in the left center of the picture, are protected by them. The Equitable Building was not. The Bankers Trust is absolutely safe against fire. The Equitable cost six lives and six million dollars, and tied up the entire financial district for a week.

The Bankers Trust has valuables to protect. So did the Equitable. But how differently they have gone about it! The one represents twentieth century progress—the other nineteenth century reliance on insurance policies, instead of

REAL PROTECTION

Our little book *Automatic FIRE Protection* shows how the thing is done. Send for it.

General Fire Extinguisher Company

PROVIDENCE, R. I., AND ALL PRINCIPAL CITIES

Steam and Hot Water Heating and Power Piping Systems Laid Out and Installed

Plans have been filed by Architect W. H. C. Hornum, 200 East 123rd St., for alterations to 5-story loft on Third Ave. for Reformed Low Dutch Church of Harlem, 182 East 122nd St.; cost, \$12,000.

Architects Renwick, Aspinwall & Tucker, 320 Fifth Ave., have filed plans for alterations to 7-story garage on Forty-fourth St. for American Express Company, 65 Broadway; cost, \$250,000.

A syndicate of theatrical promoters, of which Mitchell H. Mack, of Buffalo, is the head, has leased the property on the west side of Broadway between Forty-seventh and Forty-eighth Sts., and is planning the erection of new theater building. Max Spiegel, of this city, is secretary of the company.

The home for working girls established by Mrs. Frederick W. Vanderbilt at 140 East Sixteenth St. is to have a new and larger home. The new building will be 7 stories in height and will be erected in Twenty-ninth St. between Fourth and Lexington Aves.

NEW YORK CITY.—Architects Haggard, Erskine & Blagden, 437 5th Ave., have filed plans for a 2-story comfort station and bandstand to be erected on Abingdon Square for city; cost \$20,000.

Plans have been filed by Architect Robert S. La Vello, 2801 Valentine Ave., for a 2-story brick store and amusement hall to be erected on Prospect Ave. for J. C. Gaffney Construction Co. (J. C. Gaffney, 1143 Tiffany St., president); cost \$20,000.

Architect Henry Nordheim, 1087 Tremont Ave., has filed plans for a 5-story brick apartment to be erected on Zerega Ave. for Louis Weydanz, 1440 Zerega Ave.; cost \$35,000.

Plans have been filed by Architect P. Chapman, 1546 Minford, Pl., Bronx, for alterations to 3-story theater on 63rd St., for F. N. Robinson, Cleveland, O.; cost \$20,000.

NEW YORK CITY.—Architects Griffen & Wynkoop, 30 Church St., have filed plans for a 4-story warehouse to be erected on 22d St. for H. M. Sherman, 50th St. and 5th Ave.; cost, \$50,000.

The Kreymborg Architectural Co., 1330 Wilkins Ave., has filed plans for three 3-story brick apartments to be erected on Simpson St. for Podgur Realty Co. (Robert Podgur, 931 Southern Blvd., president); cost, \$105,000.

Plans have been filed by the Kraymborg Architectural Co., 1130 Wilkins Ave., for three 5-story brick apartments to be erected on Fox St. for Podgur Realty Co. (Robert Podgur, 931 Southern Blvd., president); cost, \$105,000.

NEW YORK CITY.—Architect E. Lynch, 347 Fifth Ave., has filed plans for a 4-story and basement school to be erected on 90th St. for Church of St. Gregory the Great, 56 W. 88th St.; cost \$120,000.

Plans have been filed by Architect M. Del Gaudio, 401 East Tremont Ave., for alterations to 4-story store and apartment on 114th St., for M. Colucci, 322 East 114th St.; cost \$5,000.

The Thirty-three West Fifty-first Street Company, of which Franklin M. Haines is president, has filed plans for the twelve-story hotel to be erected at 33 West 51st St. The building has been estimated to cost \$300,000 by Architect J. B. Gordon, 507 5th Ave.

A 12-story apartment house costing about \$350,000 is to be built by the Aeon Realty Company, on the east side of West End Ave., north of 87th St. Architect W. Haeefe, 17 Madison Ave., has filed plans for the structure.

NEW YORK CITY.—Architect Charles Schaefer, Jr., Co., 401 Tremont Ave., has filed plans for seven 5-story brick apartments to be erected on Teller Avenue for Otto J. Schwarzler, 1340 Brook Ave. Cost, \$245,000.

Plans have been filed by Architect Charles Schaefer, Jr., Co., 401 Tremont Ave., for two 5-story brick apartments to be erected on Teller Ave., corner 166th St., for Otto J. Schwarzler, 1340 Brook Ave. Cost, \$85,000.

Architect Charles Schaefer, Jr., Co., 401 Tremont Ave., has filed plans for four 5-story brick apartments to be erected on 177th St., corner Prospect Ave., for John McNulty, 3058 Bainbridge Ave. Cost, \$175,000.

SYRACUSE.—The State Fair Commission has decided to erect a \$100,000 poultry building for the 1913 exposition.

NORTH CAROLINA

HIGH POINT.—A deal has been closed by the City Council with Snow Lumber Company for the corner lot on Rankin and Commerce Sts., where it is proposed to build at an early date a town hall, an opera house, a market, fire house and lock-up.

NORTH DAKOTA

BISMARCK.—The City Commission has recommended that Architect Van Horn be authorized to prepare plans and specifications for erection of proposed auditorium.

OHIO

DAYTON.—Plans for the construction of a factory have been instituted by John Richey and Charles Wirtz, proprietors of a Greenwood Ave. wood working plant, in the purchase of a tract of land extending from South Perry St. to the D., L. & C. Railway.

OKLAHOMA

ATOKA.—Bonds in sum of \$65,000 have been authorized for erection of court house.

TULSA.—A Christian Science Temple will be erected in this city. The temple will be located at 11th and Boulder Sts., and will cost \$16,000.

OREGON

OCEAN PARK.—Architects Johnson & Mayer, of Portland, have been commissioned to prepare plans for a residence to be built at Ocean Park for Miss Kate Wintler. Plans will be ready for figuring about January 1.

PALATINE HILL.—Architects Root & Hoose, of Portland, are preparing plans for a residence of the Italian villa type to be erected on Palatine Hill, in Riveria, for C. E. Power, to cost between \$7,000 and \$8,000.

PENNSYLVANIA

ALTOONA.—All the plans for the erection of the magnificent 6-story business block to be built by the City Furniture Company at the corner of 11th Ave. and 15th St. have been completed.

CHESTER.—The American Viscose Company, of Marcus Hook, has had plans made for the immediate erection of a building for the exclusive use of its employees. It will consist of an auditorium and a gymnasium and will be modern in every particular.

FRANKLIN.—The congregation of the Second Presbyterian Church has formally accepted the plans for the new church. The building committee, composed of Rev. S. A. Cornelius, Fred N. Chambers, W. S. McCuen, E. R. Gnade, H. G. Rush and George N. Reed, will arrange for the advertising of bids for the building of the new church.

HAVERFORD.—Architects Duhring, Okie & Ziegler, Bailey Bldg., are planning a stone house at Haverford for Charles R. Wentz, to cost \$20,000.

NEW KENSINGTON.—Bids for the construction of sanitary sewers on Catalpa St., Victoria Ave., Taylor Ave., Woodmont Ave. and Proctor alley, will be received by the chairman of the street committee, W. J. Pflough, until the 7th day of January, at 7:30 o'clock p. m., 1913. Plans and specifications may be seen at store of W. J. Pflough, New Kensington, Pa., or office of borough engineer, O. B. Higley, 424 Fourth Ave., Pittsburgh, Pa.

PHILADELPHIA.—Estimates have been invited for a \$200,000 surgical building on the grounds of the University



Woolworth Building, New York

Cass Gilbert, Architect

Thompson-Starrett, Builders

ENTIRELY of Atlantic Terra
Cotta from 3rd story to 52nd
story level.

Booklet on request

Atlantic Terra Cotta Company
1170 Broadway, New York

of Pennsylvania Hospital, at 34th and Spruce Sts. The plans provide for an 8-story fireproof structure.

George & Borst are figuring on a \$25,000 residence at St. Martin's, Chestnut Hill, for Henry L. Davis.

The John P. Allen Company, Betz Building, is preparing revised plans for a vaudeville theatre at the corner of Germantown Ave. and Venango St., for Stuempfig Bros. It will cost \$150,000.

P. J. & J. Whelan will erect three stores and dwellings, and 10 dwellings at Nos. 5227-29-31-33-39 to 55 North 5th St., at a cost of \$34,500.

PHILADELPHIA.—Architects Stuckert & Sloan are preparing plans for a 4-story apartment building on the site of the Meta J. Connor-Wood residence at the corner of Broad and Thompson Sts., recently purchased by Kahn & Greenberg.

Architects Druckenmiller, Stackhouse & Williams are preparing plans for a \$15,000 residence and garage at Cynwyd for E. G. Whitmer.

PHILADELPHIA.—Architect Charles Balderston, 411 Walnut St., is preparing plans for a 2-story concrete garage at the Freihofer bakery, Twentieth St. and Indiana Ave.

PHILADELPHIA.—Plans for a 12-story, fireproof warehouse for the Larkin Company are being prepared by Architects Ballinger & Perrot, 1211 Arch St. It will be erected at 23rd, Arch and Cuthbert Sts.

PITTSBURGH.—The Board of Public Education have tentatively approved the proposed building bond issue of \$3,000,000 and provisionally decided upon the location of buildings which will cost \$3,100,000. The high school buildings include a \$600,000 structure in the Oakland-Shadyside section. Three other high schools and nine new buildings for grade pupils are the other buildings decided upon. The latter are to cost from \$50,000 to \$250,000 each.

A \$60,000 parochial school will be built next spring in Crafton for the St. Phillips Roman Catholic congregation. The school will be built on a portion of the Episcopal Church of the Nativity property.

PITTSBURGH.—Architect Cass Gilbert, 11 East Twenty-fourth St., New York City, has been engaged to prepare a competition for plans for the proposed combination city-county building to be erected on the "Hemp" site.

TARENTUM.—Plans have been accepted by the members of the congregation of the Central Presbyterian Church of Tarentum for the new \$30,000 church to be erected on the site of the present building.

TENNESSEE

LEBANON.—In a called meeting of board of stewards of the Methodist Episcopal Church, South, it was unanimously decided to tear down the old house of worship and build a new one at a cost when completed of about \$30,000. Rev. B. H. Lyle is pastor.

TEXAS

NOME.—Bids will be received by the trustees of the Nome District School, for the erection of a 3-room, 2-story, brick, tile roof, school building, until January 6, 1913, 7 p. m., according to plans prepared by C. C. McDonald, architect, 721 First National Bank Building, Houston, Texas.

PALESTINE.—City Council invites plans and specifications for a public library to cost about \$15,000. Plans will be received until noon, January 15, 1913. A. L. Bowers, Mayor.

SHERMAN.—Architects are asked to submit on or before Jan. 15, 1913, plans for a ten-classroom brick building; also 12-classroom brick building, cost not to exceed \$35,000. Architect whose plans are adopted will be given supervision as architect of building. For further particulars address R. G. Piner, Secretary, Sherman, Tex.

TYLER.—The First Presbyterian Church has purchased site at corner of South Broadway and Elm St. for the purpose of erecting a modern church. The building committee has employed a Fort Worth architect; cost about \$35,000.

VIRGINIA

RICHMOND.—A committee from the American Beneficial Insurance Company, a colored financial institution of this city, is considering plans for the erection of a new building on the site which the company now occupies at 613 North Second St. The building will probably cost about \$20,000 and will be 3 stories high.

WASHINGTON

PORT ANGELES.—The Elks Lodge has approved of plans for proposed \$35,000 building to be erected by organization. Building will be 3 stories. J. Everett, Walker Building, Seattle, is the architect.

PORT TOWNSEND.—Architect Julian Everett, Walker Building, Seattle, is preparing plans for a 3-story store, office and lodge building to be erected here for Order of Elks at a cost of \$22,000. Plans will be ready for figures first of year.

SEATTLE.—Architects Daniel R. Huntington and Arthur L. Loveless, Colman Building, have completed plans for a 3-story apartment house to be erected for the Peninsular Land & Building Co. on corner of Minor Ave. and Columbia St. at a cost of approximately \$100,000. Figures will be taken shortly.

R. M. Fouts, owner of the Kinnear Apartments, has announced that he will erect a 5-story brick apartment house on corner of 16th Ave. and E. Madison St. at a cost of about \$100,000.

SPOKANE.—Plans are now being drawn for a new school building to take the place of the old building, located at 9th Ave. and A St. Robert C. Sweatt, school architect, has been asked to go ahead with the drawing of the plans. Cost \$50,000.

TACOMA.—The Chicago, Milwaukee & Puget Sound Railway will erect a passenger station in Tacoma which will cost \$750,000. Plans are being hurried by Chicago architects. The station will be located on Pacific Ave.

TACOMA.—Architects Heath & Gove, Provident Bldg., are preparing plans for the new Lincoln Park High School.

TACOMA.—Architects Heath & Gove, National Realty Building, are preparing plans for 2 gymnasiums to be built for Stadium High School at cost of approximately \$100,000. Plans will be completed about March 1.

The Pacific National Bank has formed a \$400,000 company and contemplates erection of 18-story office or hotel building on 11th St. and Pacific Ave.

WENATCHEE.—The Wenatchee Ice, Cold Storage & Canning Company has decided to rebuild the \$75,000 plant recently destroyed by fire.

WISCONSIN

KENOSHA.—The County Board of Kenosha County has decided to erect the new Kenosha County Tuberculosis Sanitarium near the village of Camp Lake in the town of Salem and the Board has purchased a 20-acre tract. The new hospital is to cost \$20,000.

MILWAUKEE.—A 3-story fireproof storage building will be erected at 2d and Clybourn Sts. by Armour & Co. It will cost \$80,000.

SUPERIOR.—Plans have been prepared by Architect F. E. Johnson for erection of Y. M. C. A. building to cost about \$100,000. D. B. Cheney is chairman of association.

SUPERIOR.—Michael Murphy will erect a modern 2-story brick apartment building at 18th St. and John Ave., to cost \$20,000, on plans by F. E. Johnson, architect, of Superior.

Alphabetical List of Advertisers

Ads. marked E. O. W. appear every other week.

Ads. marked O. A. M. appear once a month.

A		L	
Adler, The J. Gilding Co. (o.a.m.)	23	Lee Marble Works (o.a.m.)	37
American Blower Co.	2	Lehigh Portland Cement Co.	19
American Luxfer Prism Co.	19	Loomis-Manning Filter Co.	19
American Mason Safety Tread Co.	44	Lufkin Rule Co.	19
American Radiator Co. (e.o.w.)		Lupton's, David, Sons Co.	36
American Sheet & Tin Plate Co. (o.a.m.)	33		
American Steel & Wire Co.	25	M	
Art Metal Construction Co.	19	McCray Refrigerator Co.	19
Artesian Well & Supply Co. (e.o.w.)	15	Maddock's, Thomas, Sons Co. (e.o.w.)	23
Atlantic Terra Cotta Co. (e.o.w.)	24	Majestic Furnace Co.	24
Atlas Portland Cement Co. (e.o.w.)	43	Marsh Valve Co.	26
Automatic Refrigerating Co.		Merchant & Evans Co. (e.o.w.)	34
		Moss Photo Engraving Co.	26
B		Mueller, H., Mfg. Co. (e.o.w.)	26
Barrett Mfg. Co.	9	Mullins Co., The W. H.	
Bayley & Sons (e.o.w.)	32	Murphy Varnish Co. (o.a.m.)	
Berger Mfg. Co.	25		
Best Bros. Keene's Cement Co.	29	N	
Bird, F. W., & Son (o.a.m.)	22	National Fire Proofing Co.	39
Bonnell Iris Aggregate, Inc. (o.a.m.)		National Lead Co.	20
Boyle, John, & Co., Inc.	22	National Roofing Tile Co.	20
Bradford Pressed Brick Co.		National Tube Co.	20
		National X-Ray Reflector Co. (e.o.w.)	7
C		Never-Split Seat Co.	34
Cabot, Samuel, Inc.	7	New York Architectural Terra Cotta Co.	24
Cahill Iron Works	26	New York Belting & Packing Co. (e.o.w.)	20
Campbell, Walter M.	26	Nikah Snow Guard Co.	20
Carpenter, Geo. B., & Co.	23	Northern Pine Mfrs. Assn. (e.o.w.)	21
Carter White Lead Co.		Northwestern Expanded Metal Co.	27
Crow, James B., & Sons (e.o.w.)		Northwestern Terra Cotta Co.	
Colonial Fireplace Co. (e.o.w.)			
Concealed Transom Lift Co.	35	O	
Condon Co.	30	Ohio Blower Co.	
Corbin, P. & P. (e.o.w.)	19	Okonite Co. (e.o.w.)	
Corrugated Bar Co. (e.o.w.)	20	Otis Elevator Co. (e.o.w.)	
Crittall Casement Co.			
Cudell, P. E. (e.o.w.)		P	
Cutler Mail Chute Co.		Peaslee-Gaulbert Co.	11
		Peerless Rubber Mfg. Co. (o.a.m.)	
D		Pfau Manufacturing Co., The (e.o.w.)	
Darby, Edw., & Sons Co., Inc. (e.o.w.)		Pierce, Butler & Pierce Mfg. Co. (e.o.w.)	21
Decorators Supply Co. (e.o.w.)		Pomeroy, S. H., Co., Inc. (o.a.m.)	20
Derby Desk Co.	19	Pratt & Lambert	27
Detroit Show Case Co. (o.a.m.)		Prescott, J. B., & Son	
Detroit Steel Products Co.			
De Vore, James J.	22	R	
Dexter Bros. Co.	20	Reliance Ball Bearing Door Hanger Co. (o.a.m.)	
Dixon Crucible Co., Jos.	21	Richards-Wilcox Mfg. Co. (e.o.w.)	21
Drouvé, G., Co. (e.o.w.)		Royal Ventilator Co. (e.o.w.)	
Dunning, W. D.		Russell & Erwin Mfg. Co. (o.a.m.)	
		Ruid Mfg. Co. (e.o.w.)	
E			
Elevator Supply and Repair Co.	44	S	
Erkins Studios, The	20	Samson Cordage Works	44
Estey Organ Co. (e.o.w.)		Sargent & Company (e.o.w.)	20
Eureka Fire Hose Co. (e.o.w.)		Schreiber & Sons Co., The L.	19
		Silver Lake Co. (e.o.w.)	32
F		Simonds Heating & Specialty Co.	18
Falkenhainer, E.	18	Smith, H. B., Co. (o.a.m.)	24
Federal Terra Cotta Co. (o.a.m.)	22	Society of Beaux-Arts Architects	24
Fischer-Sweeny Bronze Co. (e.o.w.)		Sprague, Douglas, and Associate, (e.o.w.)	7
Fiske & Co.	32	Standard Regulator Co.	30
French & Co., Samuel H.	21	Stanley & Patterson	38
		Stanley Works, The (e.o.w.)	
G		Sturtevant Co., B. F.	18
General Electric Co. (e.o.w.)	13	Syracuse University	
General Fire Extinguisher Co.	24		
General Fireproofing Co.		T	
Gillespie & Son, Chas. H. (e.o.w.)		Taylor, N. & G., Co. (o.a.m.)	20
Gillis & Geoghegan (e.o.w.)		Thorp Fire Proof Door Co.	31
Globe Ventilator Co.	22	Tiffany Studios	41-42
Gorham Co. (o.a.m.)	19	Trussed Concrete Steel Co.	21
Granger Co., A. D.	34	Turner Construction Co.	
Great Western Pottery Co.	20		
Grueby Faience and Tile Co.		U	
Gurney Heater Mfg. Co.		U. S. Gypsum Co.	20
		U. S. Mineral Wool Co.	18
H		U. S. Radiator Corporation	18
Hart & Hegeman Mfg. Co., The	25	University of Illinois	18
Heaton, Butler & Bayne		University of Michigan	18
Heinicke, H. R., Inc. (e.o.w.)		University of Pennsylvania	18
Hess Warming & Ventilating Co. (e.o.w.)			
Higgins & Co., Chas. M. (e.o.w.)	44	V	
Hunt, Robert W. & Co.		Vaile & Young	19
Hydrex Pelt and Engineering Co.			
		W	
I		Wadsworth, Howland & Co., Inc. (o.a.m.)	18
Imperial Brass Mfg. Co.	19	Warner Co., Charles (o.a.m.)	18
Industrial Engineering Co.		Washington University	18
		Weiss, G. A.	20
J		Western Electric Co. (e.o.w.)	21
Jackson, Wm. H., Co. (e.o.w.)	25	White Co., David (e.o.w.)	20
Jacobson & Co.	44	White Fireproof Construction Co.	20
Jenkins Bros.	29-31-33	Winkle Terra Cotta Co. (o.a.m.)	40
Johns-Manville Co., H. W.		Wolf, L. Mfg. Co.	
		Woodbury Granite Co.	
K			
Kahn System of Reinforced Concrete	41-42	Y	
Kawneer Mfg. Co.	19	Yale & Towne Mfg. Co., The	
Keasbey & Mattison Co. (e.o.w.)	17	Yellow Pine Mfrs. Ass'n (e.o.w.)	
Kelly Island Lime & Transport Co.			
Kelly, Thos., & Bros. (e.o.w.)			
Kennedy, David, Inc. (e.o.w.)			
Kewanee Boiler Co.	22		
Kimball Co. W. W. (e.o.w.)	23		
Kinnear & Evans			



Vincent Methodist Episcopal Church, Nutley, N. J. Roofed with Asbestos "Century" Shingles by the late Olive Newcome Elliot, Architect, and the Republic General Contracting Co., Contractors—both of New York City. Reproduced from an Artist's Drawing.

Asbestos "Century" Shingles

"The Roof that Outlives the Building"

WHEN making plans for altering and re-building properties—remember the name, *Asbestos "Century" Shingles* sold by **Keasbey & Mattison Company**.

These Shingles are the *practical* light-weight roofing of reinforced concrete.

Made by the patented "Century" process.

Uniform in texture and quality. Fire-proof—weather-proof—time-proof. *Permanent* without painting and repairs.

Full range of shapes and sizes, in *four colors*. Write to our nearest Branch Office for Booklet, "*Mattison, 1912.*"

Keasbey & Mattison Co.

Factors

Ambler, Pennsylvania

Branch Offices in Principal Cities of the United States

University of Pennsylvania Courses in Architecture

1. A four-year course, leading to the degree of B.S. in Arch. An option in architectural engineering may be elected.
2. Graduate courses of one year permitting specialization in design, construction or history; leading to the degree of M.S. in Arch.
3. A Special two-year course for qualified draftsmen with options in design or construction. Leading to a professional certificate.

For catalogue giving complete information regarding requirements of admission, advanced standing, summer school and atelier work, fellowships and scholarships, and for illustrated year book, etc., address DEAN OF THE COLLEGE, University of Pennsylvania, Philadelphia, Pa.

Perspectives Rendered

In Pen and Ink and Water Color
WALTER M. CAMPBELL
8 Beacon Street, BOSTON, MASS.

Draftsmen's Blouses
\$1.50 Sent prepaid on receipt of **\$1.50**
State Height and Weight
E. Falkenhainer, 25 W. 42d St., New York

A Free Course in Architectural Design

conducted by

The Society of Beaux Arts Architects

Seventeenth Season—Aug. to July, inclusive

The Course is open to draughtsmen and students of architectural schools in any city of the United States or Canada, modeled on the principles of instruction at the Ecole des Beaux Arts in Paris. It consists of thirty-five (35) competitions divided into two classes supplemented by prize competitions, to enter any of which an annual Registration Fee of \$2.00 is required. Address applications for circulars of information and calendars for season 1911-12 to:

William Emerson, Chairman,
Committee on Education,
281 Fifth Avenue, New York City.

University of Michigan

DEPARTMENT OF ARCHITECTURE

Four-year courses in Architecture and Architectural Engineering. Two-year course for special students. For information, address Department of Architecture, University of Michigan, Ann Arbor, Michigan.

COLLEGE OF FINE ARTS SYRACUSE UNIVERSITY

Department of Architecture

Four year course in Architecture leading to the degree of B.A. Special two-year course for students who have had two or more years of office experience. For bulletin and information, address Registrar, Syracuse University, Syracuse, N. Y.

University of Illinois

Department of Architecture

Four-year courses in Architecture and in Architectural Engineering. (Degrees B. S. in Arch., and B. S. in Arch. Eng.)

Graduate work in Design or Construction. (Degrees M. S. in Arch., and M. S. in Arch. Eng.) Graduate scholarships and fellowships, including the Francis J. Plym Traveling Fellowship available.

Catalogue giving information regarding entrance, advanced credit, description of the courses of study, etc., and illustrated year book may be had by applying to the Department of Architecture, University of Illinois, Urbana, Ill.

Rendering of Perspectives in any Medium

Drawing of Perspectives

G. A. Weisz, 1123 Broadway, N.Y.

Telephone, Madison Sq. 8633

Washington University

ST. LOUIS, MISSOURI

SCHOOL OF ARCHITECTURE

Four-year course in Architecture with degree of B.S. Two-year course in Design with certificate. Course in Architectural Engineering. Special students received. For further information address JOHN BEVERLEY ROBINSON, Professor of Architecture.

RATES for Classified Advertising

Positions Wanted, 50 cents for 50 words or less; Help Wanted, Special Notices, Competitions, Proposals, Etc., 20 cents a line, minimum four lines. Copy received until 12 m. Monday. Remittance should accompany copy.

POSITIONS WANTED

WANTED—Position, by an all-around architectural draftsman; designer, detailer and colorist; twenty-five years actual experience in the leading cities. Address "Architectural Designer," 115 West Erie St., Chicago, Illinois. (1931-32)

EXPERIENCED SUPERINTENDENT, familiar with all classes of construction, specification writer, competent draughtsman, executive ability, of good address and capable of interviewing clients. Desires permanent position in or near New York City. Can furnish highest references from leading architects. Address 31B, care The American Architect. (1931)

AN ARCHITECT, of conceded ability and large experience, desires a position with good firm in or near New York City. Experienced superintendent, specification writer, able draughtsman, of good address and capable to interview clients. Would accept reasonable salary in position offering permanence and prospects. Highest references from leading architects. Address 31C, care The American Architect. (1931)

ARCHITECTURAL DRAUGHTSMAN, twenty-four years of age, with five years' experience in architectural draughting, superintending and specification writing, wishes steady position in architect's office; anywhere in the United States; moderate salary. Address 31D, care The American Architect. (1931-32)

HELP WANTED

ARCHITECTURAL and Ornamental Iron Draughtsman needed constantly; salaries \$18 to \$35 per week. The Engineering Agency, Inc., Monadnock Block, Chicago.

AN ARCHITECT, established in a growing city of the West, desires a draughtsman of first-class training in general office practice; a young man, ambitious, of good habits, cheerful personality, and general business acumen. Would have opportunity to connect on salaried basis for first year with expectation of acquiring an interest if association proved satisfactory. Inquirer state full qualifications, salary expected, etc. Address 31A, care The American Architect. (1931)

SPECIAL NOTICE

PARTNERSHIP WANTED—Architect of six years' experience in Eastern offices and five of independent Western practice, university graduate, student at Beaux Arts, proficient in all branches and capable of the best work, wishes to communicate with an architect established in a city of over 100,000 who requires a partner or wishes to fill a position of responsibility, yielding a salary and percentage, that would lead to partnership. Address 26C, care The American Architect. (1926 & tf.)

PROPOSALS

Treasury Department, Office of the Supervising Architect, Washington, D. C., December 16, 1912.—Sealed Proposals will be received at this office until 3 o'clock P. M. on the 30th day of January, 1913, and then opened, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduit and wiring, and lighting fixtures), of the United States Post Office at Bellefontaine, Ohio. The building is one story and basement, with a ground area of approximately 5,000 square feet. Fireproof construction; stone and brick facing; tin roof. Drawings and specifications may be obtained from the Custodian of Site at Bellefontaine, Ohio, or at this office, at the discretion of the Supervising Architect.

O. WENDEROTH, Supervising Architect. (1931-2)

Treasury Department, Office of the Supervising Architect, Washington, D. C., December 6, 1912.—Sealed Proposals will be received at this office until 3 o'clock P. M. on the 17th day of January, 1913, and then opened, for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and interior lighting fixtures), of the United States Post Office and Courthouse at Salina, Kans.

The work contemplated is the construction of a three-story and basement extension, of approximately 3,600 square feet ground area. The first story and second floor only of fireproof construction; slate and composition roof; exterior facing is of brick and stone; and there will be certain alterations in the present building.

Drawings and specifications may be obtained from the Custodian at Salina, Kans., or at this office, at the discretion of the Supervising Architect.

OSCAR WENDEROTH, Supervising Architect. (1931-32)

Treasury Department, Office of the Supervising Architect, Washington, D. C., December 1, 1912.—Sealed Proposals will be received at this office until 3 o'clock P. M. on the 18th day of January, 1913, and then opened, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduit and wiring, and lighting fixtures), of the United States Post Office at Ottawa, Kans. The building is one story and basement, with a ground area of approximately 4,800 square feet. Fireproof construction; stone facing; tin roof. Drawings and specifications may be obtained from the Custodian of Site at Ottawa, Kans., or at this office, at the discretion of the Supervising Architect.

O. WENDEROTH, Supervising Architect. (1931-32)



Put into the White House by the U. S. Government

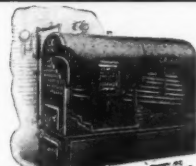
F. E. CUDELL'S Patent Sewer-Gas and Backwater Trap

For Wash Bowls, Sinks, Bath and Wash Tubs

CLEVELAND OHIO

CUDELL TRAP S. 1/2, S. 1/4, S. R.

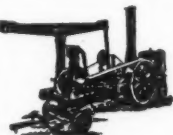
CUDELL ANTI-SYPHON



OSWEGO INTERNALLY FIRED WATERTUBE BOILERS

Occupy smallest space per horse-power. Self-contained. No brickwork. Maximum efficiency and economy. New bulletin upon request.

A. D. GRANGER CO.
90 West St. NEW YORK



A DRILLED WELL

Is the ideal source of water supply for country residences. Architects should get in touch with

Artesian Well & Supply Co.
PROVIDENCE, R. I.

MASON SAFETY TREADS

For Stairs, Wood, Iron, Marble or Cement New or Old

HUNDREDS OF THOUSANDS IN USE

American Mason Safety Tread Co., Boston

KAWNEER Booklet No. 3 shows by full size details and photographs, various bars, sash and mouldings, together with a plain description of each

Send for the booklet and learn about KAWNEER registered

Kawneer STORE FRONTS

limited ventilation and drainage — It has revolutionized Store Fronts.

KAWNEER MANUFACTURING CO.

Factory and General Offices: NILES, MICH. Branches in all principal cities.



LUFKIN MEASURING TAPES

For work where accurate measurements are essential. They make good in the severest test.

THE LUFKIN RULE CO. Saginaw, Mich., U. S. A.
New York London, Eng. Windsor, Can.

INDUSTRIAL ENGINEERING CO.
Engineers and Contractors

Reinforced Concrete and General Building Construction

HUDSON TERMINAL BUILDING
(Telephone, 7815 Cortlandt) NEW YORK

30 CHURCH ST. Branch Offices: 100 State St., Albany, N. Y. Grant Bldg., Atlanta, Ga.

Refrigerator Catalogs

Send for any of the following catalogs of the perfect refrigerator—the McCray:

- No. A.H.—Built-to-order for Residences.
- No. 89—Regular sizes for Residences.
- No. 68—For Groceries.
- No. 49—For Hotels, Clubs, Institutions.
- No. 60—For Meat Markets.
- No. 73—For Flower Shops.

McCray Refrigerator Co., 507 Lake Street, Kendallville, Ind.

LOOMIS FILTERS

Improved System Established 1880 Simple and Effective

LOOMIS-MANNING DISTRIBUTING FILTER CO.

Main Office: 828 Land Title Building, Broad and Chestnut Streets, Philadelphia

Boston Buffalo New York Baltimore Washington Chicago

This is the age of making *one* thing better than anyone else.

The SIMONDS VACUUM VALVE

has Superior Qualities that are Distinct Advantages over other kinds. Investigate.

THE SIMONDS HEATING AND SPECIALTY CO., Grand Rapids, Michigan



VAILE & YOUNG'S Patent Metallic Skylights Without Putty

Construction adapted to all forms and styles of Skylights.

Thousands of feet in use have proved its superiority. Particularly adapted for Depots, Mills, Factories, etc., where large and continuous lights are required. Send for Illustrated Catalogue.

214 N. Calvert St., Baltimore, Md.

Detroit-Fenestra PATENTED

Daylight and Fresh Air for workmen mean increased output and profit for you. New book free. Address

Detroit Steel Products Co. Dept. 6
Detroit, Mich.

"Daylight for Factories"

Solid Steel Window Sash in Standard Sizes

PROPOSALS—(Continued)

NOTICE TO ARCHITECTS.

COMPETITION FOR THE ALBANY COUNTY COURT HOUSE, ALBANY, N. Y.

The Board of Supervisors of Albany County invites Architects with established offices in the State of New York, and who can satisfy the Architectural Adviser as to their competency and qualifications as architects of established reputation, integrity and technical ability to submit designs in competition for the Albany County Court House.

The Board agrees to employ the successful competitor selected by the Jury of Award as architect for the building and will award three prizes of \$500, \$300 and \$200 each.

The program has the approval of the Standing Committee on Competitions of The American Institute of Architects.

Architects desiring to compete are required to make application on forms which may be obtained by addressing:

FRANKLIN B. WARE,
Architectural Adviser,
No. 1170 Broadway, N. Y.

Request for application blank must be received on or before January 10th, 1913. (1931-32-33)

Principles and Practice of Plumbing

By J. J. COSGROVE

Of great value to the Architect, as an exact and systematic statement of the underlying principles in Plumbing Practice. 278 pages, 169 original illustrations, 69 tables. Price \$3.00.

Well worth your serious consideration.

BOOK DEPARTMENT
THE AMERICAN ARCHITECT
50 Union Square, New York

DIXON'S SILICA-GRAPHITE PAINT

The Most Tenacious Protector

for all structural steel or other metal work. Eminent architects and engineers all over the world have specified its use on buildings, bridges, etc., because they knew its value. Made in ONE GRADE only.

Our Paint Department will cheerfully send long service records and appropriate paint literature, if requested.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

GURNEY HEATERS

FOR
STEAM AND
HOT WATER



GIVE
COMPLETE
SATISFACTION

N.Y. BRANCH
12 EAST 42ND ST.
NEW YORK

GURNEY HEATER MFG. COMPANY
BOSTON, MASS.

HOME OFFICE
188-200 FRANKLIN ST.
BOSTON

Mineral Wool

FIRE, SOUND and VERMIN PROOF INSULATOR
SAMPLES AND CIRCULARS FREE
U. S. MINERAL WOOL CO. 140 Cedar St. NEW YORK

Specify NIKSAH Snow Guard

Every slate roof within snow latitudes—be it on an old roof or a new one—is a fit subject for Snow Guards. Every architect or builder of such a roof should be interested in the matter of Snow Guards—remembering that an unprotected slate roof is a possible source of annoyance to the public, of legal difficulty to the owner and of reproach to the architect who forget to specify them.

Niksah Snow Guard Co., - Pittstown, N. Y.

L. WOLFF M'F'G CO.

Plumbing Goods Exclusively

TRENTON CHICAGO DENVER

See Our Full Page Advertisement in Next Issue

INGHAM SHOWER MIXER

Maximum Comfort, Safety and Economy. Write for free illustrated descriptive booklet "A Good Mixer."

IMPERIAL BRASS MANUFACTURING COMPANY
Dept. 174, 1222 W. Harrison Street, Chicago



Dutch Boy Painter Specification

Copies sent free to any architect writing to our nearest branch. This specification covers all forms of painting.

NATIONAL LEAD COMPANY

New York Boston Buffalo Chicago
Cincinnati Cleveland St. Louis San Francisco
(John T. Lewis & Bros. Co., Philadelphia)
(National Lead & Oil Co., Pittsburgh)

TO BE SATISFACTORY

A Roof must, first of all, be weather-proof. That goes without saying. Tile, Slate or any other material not meeting this requirement is a failure.

National Interlocking Roofing Tile

is absolutely weather-proof when properly laid and does not depend on the underlying felt.
American architects, contractors and prospective builders are invited to write us for Catalogues. Samples and Prices on Natural Reds and Green Glazes.

The National Roofing Tile Co., Lima, Ohio

"61" FLOOR VARNISH

PRATT & LAMBERT VARNISHES
ESTABLISHED 63 YEARS

THORP FIREPROOF DOORS

See our full page advertisement in this paper last week or next, or write to

THORP FIREPROOF DOOR CO. : : : : : MINNEAPOLIS

NATIONAL TUBE COMPANY

MANUFACTURERS OF

Spellerized Steel Pipe

See page announcement in first issue of every month; also pages 1118-1119 of Sweet's Index, 1912 edition.

SEND FOR LITERATURE

General Offices, Frick Bldg., Pittsburgh, Pa.

CUTLER MAIL CHUTES

"The Cheapest Modern Improvement."

CUTLER MAIL CHUTE CO.
ROCHESTER, N. Y.

PATENTED

THE L. SCHREIBER & SONS CO.

STRUCTURAL STEEL CINCINNATI ORNAMENTAL IRON

BRANCH OFFICES NEW YORK • CHICAGO • PITTSBURG • ATLANTA • NEW ORLEANS • SAN FRANCISCO • RICHMOND

ESTEY ORGAN COMPANY

BRATTLEBORO, . . VT.

Builders of Organs for churches
and private residences.

SPECIFICATIONS, ETC., FURNISHED ON APPLICATION.

TURNER

Construction Company

11 Broadway, New York City

and

312 Prudential Bldg.,

Buffalo, N. Y.

Reinforced Concrete Contractors and Engineers

What Prominent Architects Think of "ROYAL" VENTILATORS

*Is more Important Than Any Claim We Might
Make For Them*

The simple fact that the most modern public buildings everywhere are equipped with "Royal Ventilators" guarantees both the scientific accuracy of their design and the strength and durability of the material used.

We make Royal Ventilators with metal or glass tops. We are ready at all times to give you the benefit of our experience gained during a quarter century's careful study of ventilation problems.



Catalogue and copper model will be sent free on request.

ROYAL VENTILATOR CO., 414 Locust St., Phila., Pa.



**We Can Ship
Your Order for**

KNO-BURN EXPANDED METAL LATH

Within 48 hours of its receipt. The
Best is Quickest.

NORTH WESTERN EXPANDED METAL CO.
911 OLD COLONY BUILDING, CHICAGO

FRENCH'S

"Quality First"

PEERLESS MORTAR COLORS

BRIGHTEST—STRONGEST—UNFADING

The original and standard colors for coloring Interior and Exterior Mortars. Peerless Mortar Colors are ground in pulp form and can be worked into the mortar in much less time than dry colors.

Write for color card and prices.

Manufactured only by

SAMUEL H. FRENCH & CO.

Established 1844

PHILADELPHIA, PA.

VOIGTMANN

HOLLOW METAL FIREPROOF WINDOWS

tested and approved by the
National Board of Fire
Underwriters Laboratories.

□ □ □

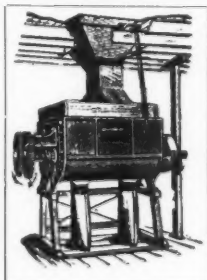
Manufactured by

S. H. POMEROY CO., Inc.

Successors to

VOIGTMANN & CO. OF NEW YORK

427 W. 13th St., New York City



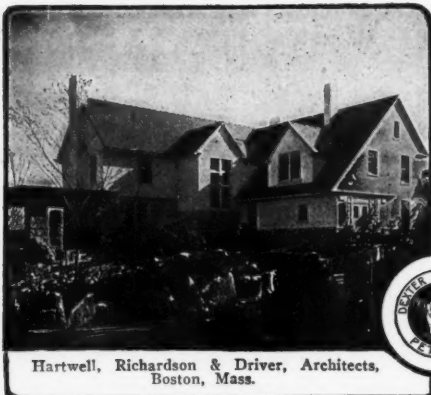
The Broughton Mixer

Direct Discharge Especially for
PULP PLASTER, PATENT
FLOORING, PAINTS, ETC.

ASK FOR CATALOGUE

WILLIAM D. DUNNING

231 WEST WATER STREET
SYRACUSE, N. Y.



Hartwell, Richardson & Driver, Architects,
Boston, Mass.

DEXTER BROTHERS PETRIFAX CEMENT COATING

Applied to brick, cement, concrete or stucco walls produces a uniformity of color and water-proofs them against rain moisture. Interior walls finished with PETRIFAX and PETRIFAX ENAMEL are sanitary and easily washed.

Let us send samples and catalogue.

DEXTER BROTHERS CO., 120 Broad St., Boston, Mass.

Branch Offices, 1133 Broadway, N. Y., 218 R Phila.

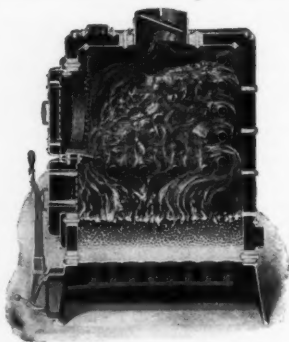
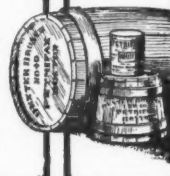
Makers of

Dexter Brothers English Shingle Stains

Agents, H. M. Hooker Company, Chicago; A. R. Hale, New Orleans; R. McC. Bullington, Richmond, Va.; Hoffschlaeger Company, Ltd., Honolulu.



Be
sure
our
name
is
on
every
package.



The KEWANEE Garbage Burner and Water Heater

Burns the Garbage and Heats the Water. It doesn't Cook the one and Warm the other. For years it has shown higher efficiency than was ever looked for.

It reduces fuel bills 30 to 40 per cent;	It raises the tank temperature 120 degrees;
it eliminates foul odors and disease carrying rats;	It supplies plenty of HOT water for 2 to 4 cents per day per family;
It puts the filthy garbage can out of commission;	The Garbage Chamber cannot be "Clogged."

The basement is clean and neat. All old papers, boxes, barrels and other rubbish go up the chimney. The risk of fires is greatly reduced. Insurance rates come down. The very dangerous garbage originating in Hospitals and Medical Colleges makes the "Kewanee" indispensable. Architects having the interests of their clients at heart will always specify the "Kewanee."

Write for specifications at once.

KEWANEE BOILER COMPANY, KEWANEE, ILL.

Chicago

New York

St. Louis

Kansas City

Salt Lake City

Los Angeles

Sold in Canada by the Dominion Radiator Co. exclusively.



SIMPLE STURDY STORM PROOF SATISFACTORY

That is the

"GLOBE" VENTILATOR

story condensed

The "GLOBE" can be relied upon to meet every requirement of a stationary ventilator. Catalogue or model upon application.

GLOBE VENTILATOR COMPANY, TROY, N. Y.

CANVAS ROOFING

BAYONNE
ROOF AND DECK
CLOTH

To satisfy you of its wearing qualities we will send you enough to cover a busy spot in your office.

Paint It Once—Only Once!

JOHN BOYLE & CO., INC.

112-114 Duane Street NEW YORK 70-72 Reade Street
202-204 Market Street, ST. LOUIS

"50 years' experience back of it"

Federal Terra Cotta Company

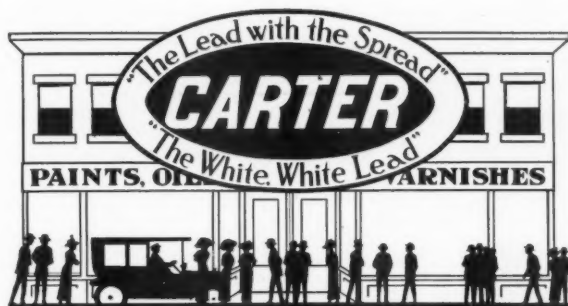
Trinity Building
111 Broadway, New York

Factory
Woodbridge, N. J.

Manufacturers of a Superior Grade of

ARCHITECTURAL TERRA COTTA

in all standard and polychrome colors, semi-glaze, matt glaze and full glaze finish.



You Will Find It Everywhere

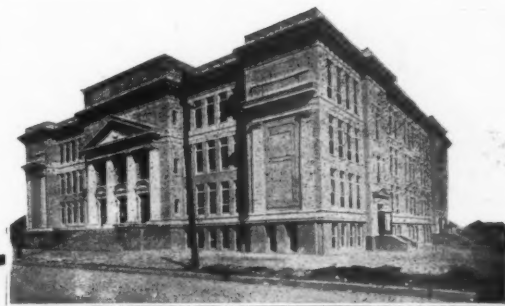
No matter where the building for which you are preparing specifications is located, there is either a wholesale or retail stock of Carter which the Painting Contractor can draw upon at his convenience.

You can specify "Carter" with assurance that the painter can get it, that he is familiar with it, and that the results from it will be fully up to your expectations.

Carter quality never varies—any keg anywhere is just as pure, just as white, just as fine, as a keg taken from any other stock.

To be certain—Specify Carter.

CARTER WHITE LEAD COMPANY
West Pullman Sta. 100, CHICAGO, ILL.



FORT WORTH (TEXAS) HIGH SCHOOL.
Waller & Field, Fort Worth, Architects.
B. C. Davis, Kansas City, Mo., Engineer.

"Sirocco"
TRADE MARK

Fans for Heating and Ventilating Office, Public and School Buildings

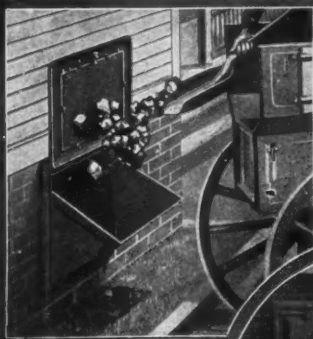
"Save Power, Space and also Weight
And make the old types out of date."

Where shall we mail your copy of Bulletin No. 340-A?

AMERICAN BLOWER COMPANY
DETROIT, MICH.
U. S. A.

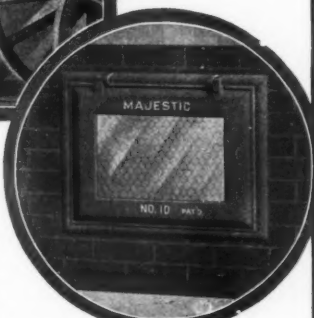
Canadian Sirocco Company, Limited, Windsor, Ontario.
Manufacturers for Canada.

MAJESTIC FOUNDATION COAL CHUTE



Protects the building just where most needed—above the opening.
The heavy steel hopper catches all the coal.

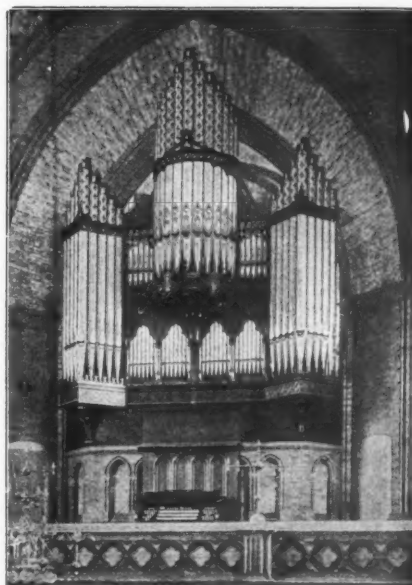
When not in use, the hopper lies in the bottom of the chute body. The door locks automatically either open or closed. Strictly burglar-proof. With 1/2-inch wire glass or steel panel in door.



Write for circular and address
of nearest dealer.

MAJESTIC FURNACE CO.
Huntington, Indiana

LISTED IN SWEETS



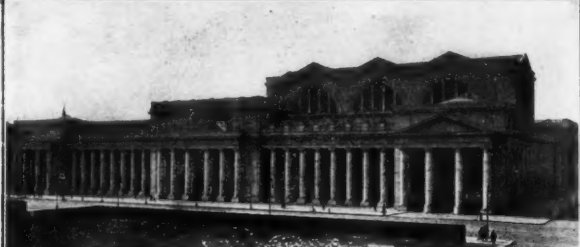
Kimball Pipe Organs

Have been built in hundreds of churches, among which are the following:

First Congregational Church, Oakland, Cal., Shadyside Presbyterian, Pittsburg, Pa.
First M. E. Church, Litchfield, Conn., M. E. Churches of Niagara Falls, Elmira,
Syracuse, N. Y., St. Jerome R. C. Church, New York City, St. John's Eva. Luth.,
Albany, N. Y., Grace Episcopal Church, Chicago, First Baptist Church, Patterson.

Correspondence solicited.

W. W. KIMBALL CO., Pipe Organ Builders
New York Office: 150 Fifth Ave. Chicago: 300-310 S. Wabash Ave.



Herringbone lath used in Pennsylvania Terminal, N. Y. City, here shown.

Saves Labor, Time and Plaster

When used in fireproof construction for partitions, ceilings or cement siding Herringbone Metal Lath Saves Labor, Time and Plaster.

HERRINGBONE METAL LATH

saves in erecting because it is absolutely rigid, does not require lapping and is used on sixteen-inch centers.

It saves in plastering because it will not sag or buckle and offers a firm surface to the trowel and spreads the mortar instead of cutting. Made from steel or American Ingot Iron.

Write today for free booklet, dealing with the uses and advantages of Herringbone lath.

The General Fireproofing Company
2125 Logan Avenue Youngstown, O. (315)

DOUGLAS SPRAGUE & ASSOCIATES

Consulting Engineers
39 Cortlandt Street New York

CHESTER A. SLOCUM, M.E.
Associate

Latest methods and up-to-date practise in designing Power Plants, Heating and Ventilating Apparatus, Electrical and Sanitary Plants. Personal Supervision given to Designing and Installation

Terra-Cotta In Architecture

Concentration



We have concentrated all our forces in one spot. We have moved our New York force over to our factory in Long Island City. Our entire establishment is now at 401 Vernon Avenue, Long Island City. But do not be misled. We are not out of reach. The Red Cars marked "Long Island City" which cross Forty-Second Street, and thence up Third Avenue, take you to the Queensboro Bridge tower on the Long Island side. You descend by elevator to within 150 feet of our front door. We shall be glad to see you at any time. You can reach us in twenty minutes from Times Square.

**New York Architectural
Terra-Cotta Company**

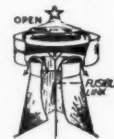
Factory—401 Vernon Ave., Long Island City—Offices

HIGHEST EFFICIENCY OBTAINED

By use of Model "B"

"STAR" Fire Retarding VENTILATORS

(Patented and Trade Marked)



They combine skylight, quick exhaust with an automatic damper controlled by fusible link. In event of fire, link parts and damper closes by gravity, stopping all draft but not affecting the light.



MERCHANT & EVANS CO.

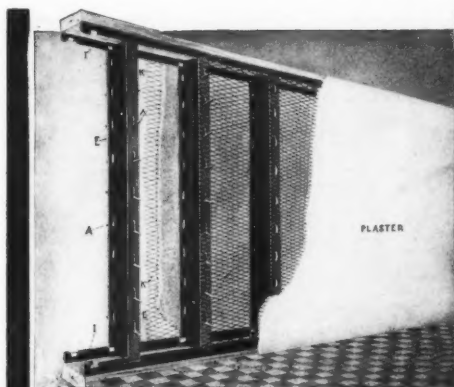
(The Premier Metal House in America)
Sole Manufacturers. Also High-Grade
Roofing and Bright Tin Plate.

PHILADELPHIA

NEW YORK
BALTIMORE

BROOKLYN
WHEELING
KANSAS CITY

CHICAGO
CLEVELAND
DENVER



Fire-Proof Partition—Construction

The Channel socket strips shown at the top and bottom of the cut insure perfect alignment and regular spacing of studs and they hold the partition more rigidly at all points than any independent method of fastening the studs, yet this is only one of the simple forms of construction offered by

Berger's *Metal Lumber*

After the studs have been fastened in position the Metal Lath is laid over the studs and the prongs knocked down with a hammer clinching the lath as firmly as though it were welded to the studs and offering an ideal rigid plastering surface.

Write our nearest branch for catalog.

The Berger Mfg. Co., Canton, O.

New York, Boston, Philadelphia, St. Louis,
Minneapolis, San Francisco.

For the best service address nearest branch.

Also manufacturers of Prong Lock Studs and Furring, Rib-Trus, Ferro-Lithic and Multiplex Reinforcing Plates, Metal Ceilings, Expanded Metal Lath, Sidewalk Forms, Raydiant Sidewalk Lights, etc.

Recommended by Underwriters

Rule 25 of the National Electrical Code bears the following recommendation:

"It is often desirable to connect in multiple with the heaters and between the heater and the switch controlling same, an incandescent lamp of low candle power, as it shows at a glance whether or not the switch is open and tends to prevent its being left closed through oversight."

This illustration shows a complete device for controlling an electric heater or utensil. The plug at the right is for connection to the circuit. The push button switch at the left is to turn the circuit on and off. The cut glass ruby bull's-eye, in the middle of the plate, glows when the current is on and reminds the user to turn it off.

This device is very inexpensive, and its installation adds greatly to the convenience of the householder.

The Hart & Hegeman Mfg. Co.,
344 Capitol Ave., Hartford, Conn.



Wm. H. Jackson Company

MARBLE MANTELS,
WOOD MANTELS,
ANDIRONS, TILES,
ORNAMENTAL IRON AND
BRONZE WORK
ARTISANS IN ALL METALS

2 West 47th Street

NEW YORK CITY

902 South Michigan Boulevard, CHICAGO



2-Story Stack
State Library
Hartford,
Conn.

Fireproof Library Interiors

are possible without sacrificing beauty of design or ornamental effect. The State Library at Hartford, Conn., is a splendid example. Critics pronounce it a distinct achievement. Book stacks, galleries, wainscoting and all interior trim is

Art Metal Steel and Bronze

Architects are invited to make use of our highly specialized experience and unequalled manufacturing facilities.

We operate the largest and best-equipped Metal Furniture plant in the world.

Art Metal Construction Company

Jamestown, N. Y.

BRANCHES: New York, Chicago, Philadelphia, Boston, Washington, Baltimore, St. Louis, Pittsburgh, Kansas City.

Our New Catalogs are just off the press. Handsomely illustrated. Four books: "Libraries," "Banks," "Public Buildings," "Commercial and Ins. Offices." Send for books wanted.

"PLAIN" BUT PRETTY

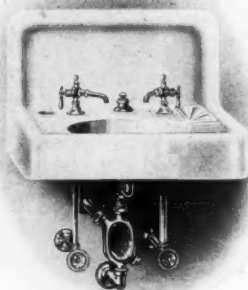


Plate G-130½

No curves, no twists, no scallops, but a very handsome lavatory nevertheless.

Note the recess back, soap cup and tumbler holder cast in slab. Made also for patent overflow plug.

The Cahill Iron Works, Chattanooga, Tenn.

New York Office and Display Rooms, 1161 Broadway, Thos. H. Hutchinson, Manager. Philadelphia Office, 5604 N. 4th St., Russell D. Knight, Sales Agent. Portland Office and Warehouse, 550 Sherlock Bldg., H. A. Heppner & Co., Sales Agents. San Francisco Office and Display Rooms, 1749 Sacramento St., C. H. Stanyan, Sales Agent. Havana, Cuba, Office, San Ignacio No. 50, Cagigas & Quesada, Sales Agents.

Sheet Metal Statuary of Rare Artistic Worth

WITHIN the last quarter of a century there have been reproduced at the Mullins Factory, Salem, Ohio, statues of Sheet Bronze and Copper that are nothing short of marvelous. Many of them were made from the models of famous sculptors, to their entire satisfaction.

We are prepared to reproduce in minute detail the most delicate lines of any model. It is this faithful portrayal which helps to account for the world-wide fame of Mullins Sheet Metal Statuary. Diana on the top of Madison Square Garden the group on the New York Life Building, the Statue of Progress, Chicago, are among our earlier achievements.

We also make Fireproof Metal Windows, Skylights, Cornices, Finials, Metal Tile Roofing, and Sheet Metal Ornamental Work of every description.

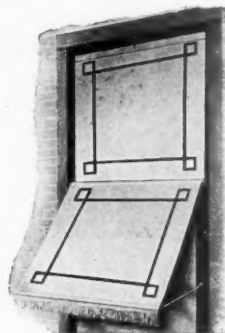
Tell us what you're interested in and we'll send the proper catalogues at once. Estimates promptly submitted on architects' drawings. Attractive prices. Quick, satisfactory service. Discounts to the trade on application.



The W. H. Mullins Co.
206 Franklin Street
Salem, Ohio

CUTS
USED IN THIS
PUBLICATION
ARE MADE
by the
**MOSS
PHOTO
ENGRAVING CO.**
PVCK BUILDING
295-309 LAFAYETTE ST. COR. HOUSTON
NEW YORK
TELEPHONE 81 SPRING
ESTABLISHED 1871

It Works from the Inside THE Carpenter Spring Shade



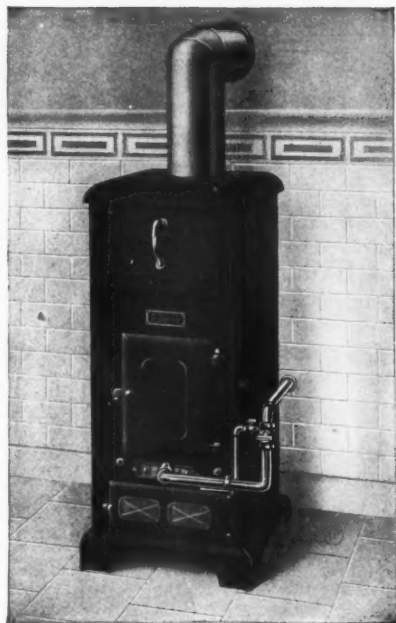
For
Residence, Office, Factory or Public Building.
*Easier to Operate and Cheaper to Maintain than
the Old Style Awning*

You can operate your "Spring Shade" from the inside of the room, without raising your window or your screen. Fully extended the "Spring Shade" gives the maximum protection from the sun—rolled up, it is practically invisible. Ask your Awning Maker or your House Furnisher about the "Spring Shade" and also send for one of our illustrated "Spring Shade" booklets giving further information.

GEO. B. CARPENTER & CO

430-440 Wells Street

CHICAGO



PYROFUSE Type F

Pyrofuse

TRADE MARK

Garbage Destroyers

N O W — Spell it Backwards — W O N

Why wait for your Client to suggest that you install an Individual Garbage Destroyer in his home? The Garbage Can is no longer tolerated by those who believe in sanitary household equipment.

Specify the *Pyrofuse* for the Private Residence, Apartment House and Hospital, and you will solve the greatest problem in modern sanitation.

J. B. PRESCOTT & SON, Mfrs.

Factory and Main Office
Webster, Mass.

New York Office, 38 West 32nd Street
H. M. Graves, Mgr.



Hoist Lowered



Hoist in Operation

G. & G. ASH-HOIST

(PATENTED)

With Compound Gear and Brake Attachment — Made of strong and durable material

Simple, safe and absolutely rigid when erected.

Takes up less room than other ash hoists; the opening in the sidewalk need be no larger than necessary to permit passage of can. It is adjustable—no part showing above sidewalk when not in use. A brake attachment permits the lowering of heavy load without trouble.

Furnished complete ready for use with any style ash can.

Specified by the leading architects

Price, erected complete, New York City, \$125.

Gillis & Geoghegan, 545 W. Broadway, New York

THE NORTHWESTERN TERRA COTTA CO CHICAGO

Works Established
1878

Main Office & Works
2525 Clybourn Ave
Chicago Illinois

MANUFACTURES
THE HIGHEST GRADES
IN STANDARD
GRANITE
ENAMEL
POLYCHROME
AND
FAIENCE

The Architectural
and Color possibilities
of Terra Cotta, with its
other virtues
of Durability
and Fire
Resisting
Efficiency
places it in ad-
vance of all other
Building Material



The King of Plasters

For Modern Bathrooms

Here is a plastering cement noted for 25 years for its wonderful **durability**—a plaster that is unaffected by heat and moisture—that is most sanitary—most pleasing in appearance—that because of its **durability** is particularly well adapted to modern **bathroom** usage.

Best Bros. Keene's Cement

Perpetuates the Beauty and Quarters the Cost of Modern Bathroom Construction. It "Stands Hard Knocks."

In the bathroom over 50 per cent of the entire surface is **ceiling** and **walls**.

To give best service these surfaces must be not only tough and strong, but also capable of withstanding humidity and high temperature—conditions which have no effect whatever on **Best Bros. Keene's Cement**.

Best Bros. Keene's Cement is the king of plasters. It works with remarkable ease—won't work short under trowel.

Presents a fine, white, close-grained surface in itself beautiful and of unequalled toughness. Takes paint or enamel equally well. Free from all acids, odorless, and so **sanitary** that it is used extensively in many of our leading hospitals.

Best Bros. Keene's Cement is superior to **tiling** because it forms a

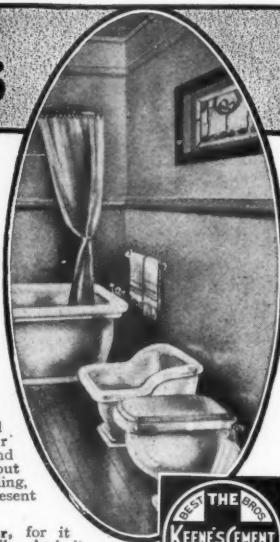
If you stand for **QUALITY**—for plaster that is most **SERVICEABLE** and most **ECONOMICAL**—Best Bros. Keene's Cement merits your immediate investigation. Ask us to send you "The Inner Wall."

The Best Bros. Keene's Cement Co., Dept. C, Medicine Lodge, Kan.

Established 1889

(15)

New York Office—The Fifth Avenue Building



A BOOK OF GARAGES COUNTRY AND SUBURBAN

The First Comprehensive Work
on This Subject Ever Published

The Structural Features of the Private Garage and Its Equipment.

The Care of the Car, Safe Handling and Storage of Gasoline
and topics of interest to Architect, Owner and Driver

One Hundred Illustrations

of the best types of recently constructed **PRIVATE GARAGES**, showing both exterior and interior views, floor plans, working drawings, etc., etc.

Descriptive Articles by Architects

whose success in the designing and planning of **PRIVATE GARAGES** is unquestioned

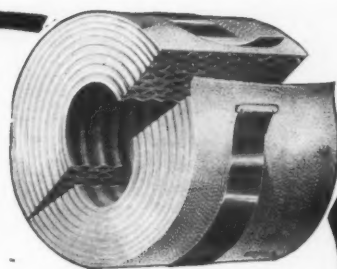
An Invaluable Book

to the **ARCHITECT, BUILDER, OWNER** and **DRIVER**. 96 pages, size 9"x12", bound in Cloth. Price \$4.00 Postpaid.

ADDRESS BOOK DEPARTMENT

THE AMERICAN ARCHITECT :: 50 Union Square, NEW YORK

Your Clients' Houses Can Be Heated at a Saving of 20 to 30%



Engineering tests prove that, at \$4.00 a ton, it costs \$154.00 a year for coal to deliver steam through 500 sq. ft. of pipe covered with ordinary air cell covering; whereas the same heating effect can be produced for \$113.50 (a saving of nearly 26%) where the pipes are insulated with J-M Asbestocel Pipe Covering.

This is universally acknowledged to be the most efficient covering for medium or low pressure steam and hot water heating systems because it confines the largest amount of "dead air." And "dead air" is the greatest known insulator.

J-M Asbestocel Pipe Covering

is made of corrugated asbestos felt built up on the arch principle—see illustration. The air cells run *around* the pipe, forming a series of *sealed rings* of "dead air." In ordinary air cell coverings the air cells run *lengthwise*, allowing free circulation of air and consequent radiation of heat.

This arch construction also makes J-M Asbestocel stronger than other coverings. It will not break or crush down under weight and successfully withstands vibration and hard usage. Can be removed and replaced without injury.

Write our nearest branch for sample and booklet

H. W. JOHNS-MANVILLE CO.

MANUFACTURERS OF ASBESTOS
AND MAGNESIA PRODUCTS

Albany
Baltimore

Boston
Buffalo

Chicago
Cincinnati

Cleveland
Dallas

ASBESTOS

Detroit
Indianapolis
Kansas City
Los Angeles

ASBESTOS ROOFINGS, PACKINGS
ELECTRICAL SUPPLIES, ETC.

Louisville
Milwaukee
Minneapolis
New Orleans
New York
Omaha
Philadelphia
Pittsburgh

San Francisco
Seattle
St. Louis
Syracuse

For Canada:—

THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED 1915
Toronto Montreal Winnipeg Vancouver

NEPONSET WATERPROOF



Bishop Home, Marblehead Neck, Mass.
Protected with NEPONSET Black Building Paper.

BUILDING PAPERS

Branch Offices:

New York
Washington, D. C.
Columbus, Ohio

F. W. BIRD & SON
East Walpole, Mass. Established 1795
Canadian Plant, Hamilton, Ontario

Branch Offices:

Chicago, Ill.
Portland, Ore.
San Francisco, Cal.

The Classic Enamel—SATINETTE—The Standard of Beauty in Architectural Decoration. Like the immaculate monuments of old, SATINETTE stands, and will ever continue to stand, solely upon its *quality*,—the quality which makes it practical, profitable, durable, and the creator of perfect atmospheres in model homes.

STANDARD VARNISH WORKS

New York Chicago London Berlin Paris Brussels Melbourne
Pinchin, Johnson & Co., Toronto, Canada



CRITTALL

Solid Steel Casement Windows

For Residences, Office Buildings, Bank Buildings, Clubs,
Public Buildings, Churches, Schools, Hospitals, Etc.

Crittall Solid Steel Casement Windows represent thirty years' experience in the business of solid steel window manufacture with the refinements in workmanship, finish and design that a life-time study of the industry has developed.

The patronage accorded the makers by Architects and Engineers is the result of unrelaxing effort in maintaining the high standard of excellence for which the Crittall Casement Window is known.

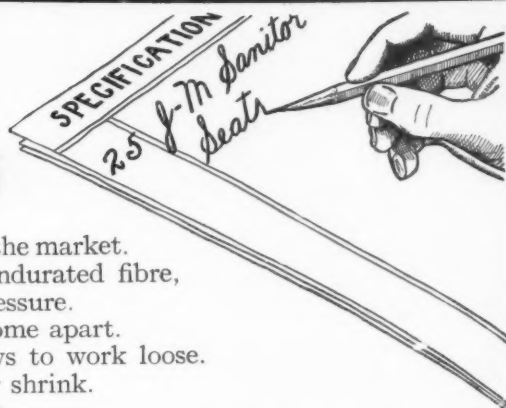
The Crittall Casement is a superior window designed and built for important construction. All types and sizes.

Get particulars of our "Economic" solid steel open-out casement window for residence construction. Better in every way than the wood casement and costs little, if any, more.

Crittall Casement Company

Detroit

Specify J-M Sanitor Seats



BECAUSE: They are the most durable seats on the market.

- They are made in *one piece*, from indurated fibre, moulded under tremendous pressure.
- They have no seams or joints to come apart.
- They have no bolts, nails or screws to work loose.
- They do not warp, buckle, swell or shrink.
- They do not crack, splinter or split.
- They have no pores or cracks to gather disease germs, dirt, vermin or foul odors.
- They are the only absolutely sanitary seats on the market.
- They are superior in every way to high-grade wooden seats—and yet cost no more.

In Mahogany, Oak and white enamel finishes.

Write nearest Branch for Sample and Booklet

H. W. JOHNS-MANVILLE CO.

MANUFACTURERS OF ASBESTOS
AND MAGNESIA PRODUCTS

ASBESTOS

ASBESTOS ROOFINGS, PACKINGS
ELECTRICAL SUPPLIES, ETC.

Albany
Baltimore
Boston
Buffalo

Chicago
Cincinnati
Cleveland
Dallas

Detroit
Indianapolis
Kansas City
Los Angeles

Louisville
Milwaukee
Minneapolis
New Orleans

New York
Omaha
Philadelphia
Pittsburgh

San Francisco
Seattle
St. Louis
Syracuse

For Canada:—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED.
Toronto Montreal Winnipeg Vancouver 1902



China Offsets

Instead of

Brass on Water Closets

Without increasing the cost of your clients house, you can place a China Connection between Tank and Water Closet. It not only increases the attractive appearance of the Bathroom but does away with one more source of dirt. Use it with



The Siwelclo Noiseless Syphon Jet Combination

This Closet when accompanied with the China Connection, makes a fixture of which every Home Builder would be proud. The only Closet and Tank made expressly to be noiseless. *If you want it for your clients house complete with Tank, Offset and Seat Specify Plate 982-LM.*

The Trenton Potteries Company, Trenton, New Jersey, U.S.A.

Patented Trade Mark



Equalite Semi-Indirect Fixture No. 4351; length 36"; diameter, 17". Suitable for library, hall or dining room.

Bayley AND Sons

Makers of

Lighting Fixtures

105-109
Vanderveer St.
BROOKLYN
N. Y.

"Equalite" is a direct system of lighting that absorbs and deflects enough light to equalize the *direct* light with the *indirect* reflection from the ceiling, thereby gaining the good effects of both. The result is a soft diffusive glow, restful to the eye, and without shadows.

In light efficiency, eye comfort and beauty of design, "Equalite" glass is the nearest to perfection so far obtained in equal lighting effects.

Special attention to special designs.

For diffusive and efficient lighting

For semi-indirect lighting

For cornice, cove or hidden source of lighting

Use Bayley & Sons
"Equalite" Glass

Turbine Ejector Pump

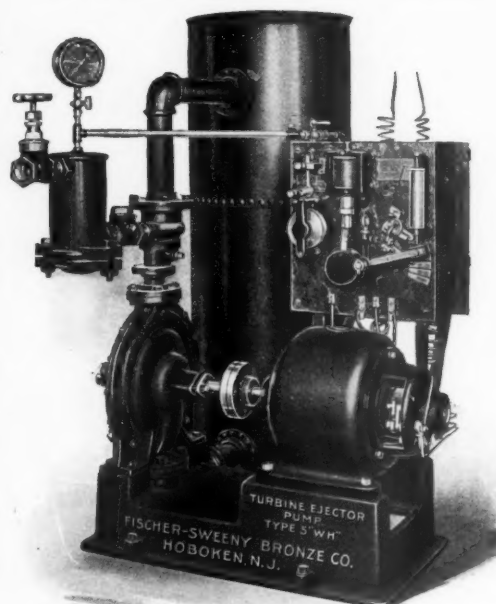
The **Turbine Ejector Pump** is used in conjunction with all Vacuum Heating Systems, either Return Line or Air Line Systems.

An Electrically driven, direct connected Vacuum Pump using small Horse Power.

No pistons to wear out by dirt and scale, no valves, springs, belts, gears or pinions.

Requires no packing.

The **Turbine Ejector Pump** is noiseless.



Turbine Ejector Pump. Pats. Pending.

On low pressure Return Line Systems, the condensation may be returned direct to the boiler.

The **Turbine Ejector Pump** has high efficiency, is self-contained, automatic in operation, and economical in maintenance.

Built for service to meet all requirements.

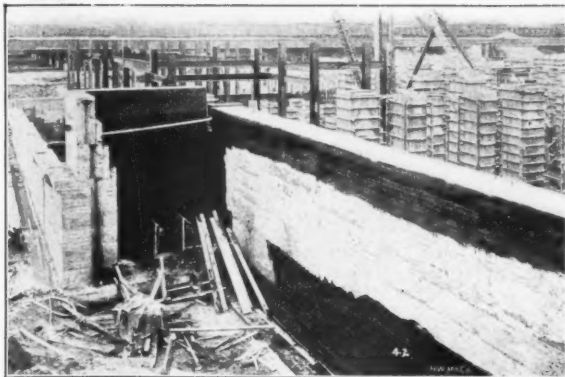
Catalogue illustrating and describing the **Turbine Ejector Pump** upon request. Send today.

FISCHER-SWEENEY BRONZE CO.

1302-04-06 Clinton Street Hoboken, N. J.

J-M Waterproofing Materials

are not Affected by Extreme Climatic Conditions



Foundation for Michigan Central R. R. Depot, Detroit, Mich., 23100 sq. ft. J-M Waterproofing Used.

Ordinary waterproofings consist chiefly of pitch and coal tar. Such materials run in hot weather, and in time entirely dry out and are no longer waterproof. In cold weather they readily crack and chip off, leaving the surface underneath open to permeation of water and dampness.

J-M Waterproofing withstands the most severe heat and cold. It neither runs, cracks nor chips—because it has for its base that wonderful, practically everlasting mineral cement—

Genuine Trinidad Lake Asphalt

This material has lain in natural lakes for hundreds, perhaps thousands, of years without deteriorating in the least from the action of the elements.

That's the reason J-M Waterproofing is not affected by expansion and contraction or the settling of walls. When applied to the surface of brick, concrete, stucco, etc., it fills cracks, seals pores and forms a smooth, elastic skin that completely protects the structure from dampness, water and frost.

When the work is handled by our waterproofing department, we *guarantee* absolute satisfaction even on the most difficult propositions.

Write our nearest branch for booklet and further particulars.

H. W. JOHNS-MANVILLE CO.

Albany
Ba'timore
Boston
Buffalo
Chicago
Cincinnati

Cleveland
Dallas
Detroit
Indianapolis
Kansas City
Los Angeles

Louisville
Milwaukee
Minneapolis
New Orleans
New York
Omaha

Philadelphia
Pittsburgh
San Francisco
Seattle
St. Louis
Syracuse

For Canada:

THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED. 1922

Toronto Montreal Winnipeg Vancouver



AMERICAN STEEL & WIRE CO'S

ELECTRICAL WIRES AND CABLES

Magnet wire and insulated wires for all purposes, including our Crown and Globe wires for incandescent lighting, Reliance weatherproof wires, slow burning wire, lamp cord, office and annunciator wire, cord for portables, packing house cord, canvasite cord, brewery cord, theatre or stage cables, border light cables, deck cables, elevator lighting cables, elevator control cables, mining machine cables, automobile primary and secondary wires, rubber insulated and paper insulated, lead encased cables for underground service, submarine wires and cables.

We Make

American Wire Rope	Barbed Wire
Aeroplane Wire and Strand	Woven Wire Fencing
Piano Wire	Fence Gates
Mattress Wire	Steel Fence Posts
Weaving Wire	Concrete Reinforcement
Broom Wire	Springs
Fence Wire	Sulphate of Iron
Flat Wire	Poultry Netting
Flat Cold Rolled Steel	Wire Rods
Wire Hoops	Juniata Horse Shoes and Calks
Electrical Wires and Cables	Shafting Cold Drawn Steel
Rail Bonds	Wire of Every Description
Bale Ties, Tacks, Nails, Staples, Spikes	

We have separate catalog for each of these. Gladly furnished upon application.

American Steel & Wire Co.'s Sales Offices

CHICAGO, 75 West Adams Street. NEW YORK, 30 Church Street. WASHINGTON, 341 Grove Street. BOSTON, 120 Franklin Street. PITTSBURGH, 1700 Erie Building. CINCINNATI, Union Trust Building. CLEVELAND, Western Reserve Bldg. DETROIT, Ford Building. ST. LOUIS, Third Nat'l Bank Bldg. MONTREAL, Bank of Ottawa Bldg. ST. PAUL-MINNEAPOLIS, Pioneer Building, St. Paul. DULUTH, First Nat'l Bank Bldg. SALT LAKE CITY, 130 South 2nd West Street.

United States Steel Products Company

Export Department: New York, 30 Church Street. Pacific Coast Department: San Francisco, Hibernia Building. Portland, Sixth and Alder Sts. Seattle, 414 Ave. South & Union St. Los Angeles, Jackson & Central Aves.

The
Blackstone Hotel
Chicago, Ill.
is equipped throughout with
The "NEVER SPLIT"
Closet Seats
Because
They are Durable, Sanitary,
Handsome, Comfortable
and will last a lifetime.



Prominent Architects are Specifying
"NEVER SPLIT" Seats for Hotels and Pub-
lic-buildings Because:—

The "NEVER SPLIT" SEATS

are known to be both **Sanitary** and **Germ-Proof** and the well informed traveling public have learned to look for the "NEVER SPLIT" Trade Mark on the closet seats, at the hotels where they stop—it is their insurance against infectious diseases.

The "NEVER SPLIT" has a piano finish which is acid and moisture proof—the most minute germ can not find a crack or crevice in which to make its home.

The "NEVER SPLIT" is the standard closet seat for all hotels, as the Waldorf-Astoria and other leading hotels, everywhere, are installing them to replace other seats as fast as they wear out.

The "NEVER SPLIT" is guaranteed for five years not to split, warp or come apart, at the joints, which are securely bound with steel bolts, nuts and washers.

Write for booklet, "The Reason They Never Split."



EXPULSO

TRADE MARK



Includes "EXPULSO" Bowl with 3½ in. "Siphono" Vent
"EXPULSO" Tank with China Operating Lever. Seat attach-
ments on the outside. Seat in oak or imitation mahogany.

The Cycloid Groove

The contour of the "EXPULSO" Bowl is made up of a series of inverted Cycloids. By the principle of this curve, the water falling from the flushing rim reaches the bottom in the shortest time, and rises at a high velocity to the large discharge passage below the flushing rim in the up-leg. A Cycloid groove at the front concentrates the flushing water from that part of the bowl and directs it into the up-leg. The high expulsive force already obtained is increased by this concentration. This natural method of securing expulsive force produces more uniform results than is possible where a mechanical device such as a syphon jet is used.

"EXPULSO" has a large water area, 9x11 in., deep seal, 3 in., and a discharge passage of large area to pass freely a ball 2½ inches in diameter. Instantaneous and soundless in operation.

Great Western Pottery Co.

Tiffin, Ohio Kokomo, Ind.

Manufacturers of Vitreous China Lavatories and
Special Closets of all Kinds.



PACIFIC BUILDING

San Francisco, Cal.

The largest building of concrete in the world is equipped throughout with Corbin hardware, of the design shown. Over 2000 good buildings erected in San Francisco since the great fire have Corbin hardware upon them—and it is giving satisfaction to its users.

P. & F. CORBIN

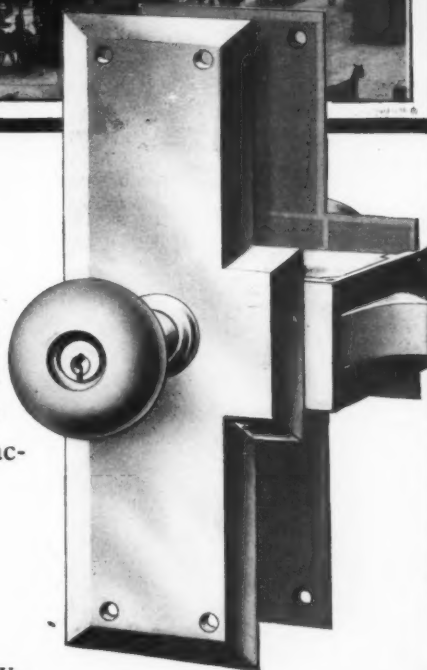
Division

The American Hardware Corporation
NEW BRITAIN, CONN.

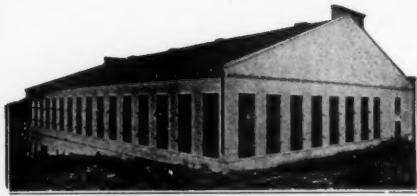
P. & F. CORBIN
of Chicago

P. & F. CORBIN
of New York

P. & F. CORBIN DIV.,
Philadelphia



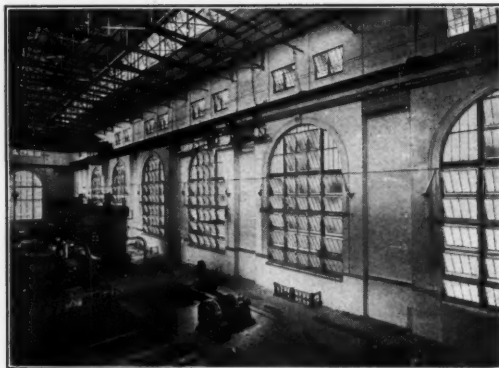
For Maximum Efficiency—Specify



Lupton Steel Sash, Standard Construction.



Pond Continuous Sash in Sawtooths.
Lupton Steel Sash in Side Walls.



Lupton Steel Sash, Power House Type. Sash in the Six
Openings Are Controlled from One Power by
Pond Operating Device.



Lupton Steel Partitions.

Lupton Products

each of which is highly developed in every detail and is constructed for strength, simplicity and permanency.

Behind the Lupton Products is Lupton Service—expert advice on matters pertaining to daylighting and natural ventilation of all kinds of buildings, always freely at your service.

Lupton Steel Sash are made of solid rolled steel members with storm and draft-proof ventilators. In addition to our standard construction we manufacture sash of special construction to meet various requirements, such as Lupton Steel Sash, Power House Type, a unit sash 100% ventilating; Counterbalanced Type, particularly adapted for Forge Shops and Foundries; Projected Ventilator Type, which swings out and does not interfere with use of screens or shades; special sash with circular or camber heads or other ornamental features.

Pond Continuous Sash, made of solid rolled steel members, with all joints welded, gives unequal results in monitor and sawtooth construction because it is weathertight open or closed and permits ventilation at all times without exposing the interior of the building.

Pond Operating Device entirely different in mechanical principle from any other sash operating device. Power is transmitted by tension without loss from friction. Gears are immersed in Albany grease; hinged connections have phosphor bronze bearings. Working conditions are permanent; vibration or settling of building do not affect the device.

These and other Lupton Products are illustrated and described in our catalogue, a copy of which should be in your files.

David Lupton's Sons Co.

Trenton Ave. and Allegheny Ave.
Philadelphia

Sales Offices: Chicago—New York—Pittsburgh

Canadian Manufacturers:

A. B. Ormsby, Ltd., Toronto



Court House
Baltimore, Md.

Messrs. Wyatt & Nolting
Architects

Permanency has been the key-note in the selection of all the building material and equipment for this attractive building.

In line with this idea the architects specified MY MARBLE on account of its whiteness, uniformity and quality.

Wherever MY MARBLE is used its beauty and richness adds to the architectural lines of any type of building construction.

MY MARBLE is reliable and permanent, and is being specified by thousands of architects and extensively used by builders throughout the country.

WRITE FOR FURTHER INFORMATION

LEE MARBLE WORKS, Lee, Massachusetts

W. H. GROSS, Proprietor

PATTERSON BATTERY SETS



STEEL CABINET, MODEL "BMC-36," MULTIPLE-SERVICE PATTERSON BATTERY SET
(6 VOLTS-75 AMPERES)

MULTIPLE-SERVICE PATTERSON BATTERY SETS of the type shown in above cut, will GIVE A SERVICE-LIFE RECORD OF FROM 2 to 3 YEARS, under severe conditions where the old-style battery installation has only lasted a couple of months!

Model BMC-36 shown in above cut, has a capacity of 75 Amperes, and will give eight (8) times as long service as the old style battery set under heavy service conditions.

Model BMC-46, having a capacity of 100 Amperes will give ten (10) times as long service as the old style battery set under heavy service conditions.

Model BMC-66, which is a 150 Ampere set—double the size of the one shown in above cut—will give sixteen (16) times as long service as the old style battery set under heavy service conditions.

IN ALL PATTERSON BATTERY SETS THE RENEWAL OF A CELL IS AS EASY AS THE RENEWAL OF AN INCANDESCENT LAMP—AND THOUGH DONE QUICKLY—BY THE MOST INEXPERIENCED PERSON, WITHOUT TOOLS OR TECHNICAL KNOWLEDGE OF ANY SORT, CAN BE DONE ONLY IN ONE WAY, AND THAT THE RIGHT WAY!

STANLEY & PATTERSON,

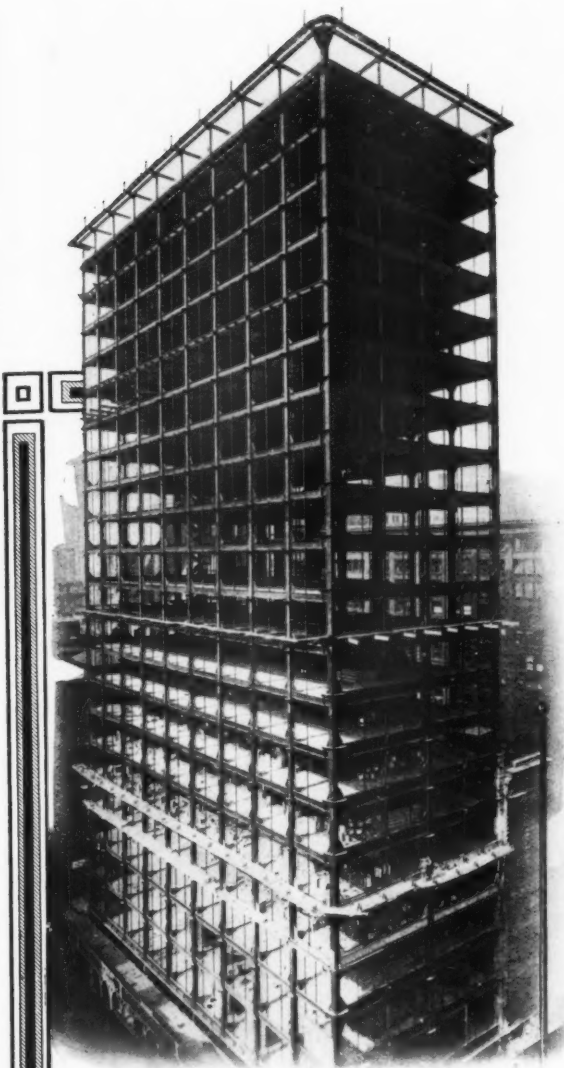
The Northern Electric
AND MANUFACTURING CO. LIMITED

Sole Distributors for the Dominion of Canada

Sole Manufacturers
NEW YORK, U. S. A.

Pacific Coast Warehouses
JOHN R. COLE COMPANY
Los Angeles, San Francisco, Seattle

We'll gladly forward copy of Catalog 157, describing in detail full line of Patterson Battery Sets.



THE STATE AND QUINCY BUILDING, CHICAGO
J. L. Kesner, Owner
Jenney, Mundie & Jensen, Architects

A forceful example of the rapidity with which the most advanced fireproofing materials and methods are applied to modern building construction.

Terra Cotta Hollow Tile, manufactured, supplied and installed by the **NATIONAL FIRE PROOFING COMPANY.**

Commenced setting, August 14th, 1912. Completed roof, October 16th, 1912. Twenty-two floors.

The fireproofing operations were carried out with the dispatch which characterizes this Company's working methods. With no other form of fireproof construction can such speed be made.

Any problem of fireproofing submitted to us with the necessary data will receive the prompt attention of our staff of experts and a scheme of solution will be submitted in due course with complete plans.

NATIONAL FIRE PROOFING COMPANY

Main Office, PITTSBURGH, PA., Fulton Building

CHICAGO, Commercial Natl. Bank Bldg.
CINCINNATI, Union Trust Building
CANTON, City Natl. Bank Building
DETROIT, Penobscot Building
SYRACUSE, University Block.

MINNEAPOLIS, Lumber Exchange
LOS ANGELES, Central Building
NEW YORK, Flatiron Building
PHILADELPHIA, Land Title Building
BOSTON, John Hancock Building

WASHINGTON, Colorado Building
BALTIMORE, 15 East Fayette Street
COLUMBUS, West Broad Street
CLEVELAND, Chamber of Commerce Bldg.
TORONTO, Ontario.

Twenty-six Factories in the United States

Woodbury Gray Granite



CHICAGO CITY HALL AND COOK COUNTY COURT HOUSE
Messrs. Holabird & Roche, Architects

Granite for Public Buildings

The Chicago City Hall and Cook County Court House are of Woodbury Gray Granite, quarried, cut, carved, delivered and set by us, ON TIME.

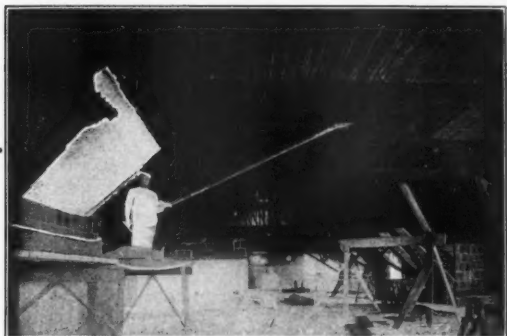
There are 500,000 cubic feet of Woodbury Gray Granite in this building—42,500 tons of stone—and our organization and equipment handled it ON TIME.

For massive construction Woodbury Gray Granite is unsurpassed. Its light gray color and uniformity of mixture make it suitable for the highest grade of work; and our facilities are such that we can furnish you this stone ON TIME.

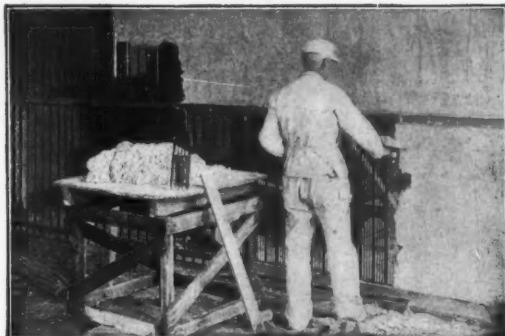
It is good business to build in granite, the stone that endures, and to deal with a company equipped to quarry, cut, carve, deliver and set its work ON TIME. Our experience is at your service.

WOODBURY GRANITE COMPANY
HARDWICK, VERMONT

GEORGE H. BICKFORD, General Manager



HY-RIB Ceilings—Mount St. Joseph Academy, Buffalo, N. Y.



HY-RIB Partition—Note grounds for base-board and chair-rail.

HY-RIB Partitions and Ceilings—Add Strength and Save Money!

PARTITIONS—HY-RIB is a combined unit of steel lath and channels, providing a more rigid reinforcement and saving the labor and time of wiring lath to studs. Merely set up the HY-RIB Sheets, plaster both sides and the partition is complete. HY-RIB Partitions save space.

CEILINGS—HY-RIB does away with the small stiffening channels required with metal lath, saving the expense of wiring and simplifying construction. HY-RIB sheets are attached to lines of support, spaced three to five feet apart. HY-RIB provides a perfect key for the plaster.



HY-RIB—Concrete Roofs, Floors, Walls and Sidings without Forms

ROOFS AND FLOORS—HY-RIB is a combined unit of reinforcement and centering, doing away with all forms. Simply lay the HY-RIB over the supports, pour on the concrete and plaster the underside.

HY-RIB Roofs are thin, saving in dead weight and in the supporting frame work. HY-RIB Roofs are exceptionally strong and rigid.

HY-RIB is furnished bent to the exact curve for arched floors, saving the very expensive circular centering.

WALLS AND SIDINGS—HY-RIB makes a monolithic concrete wall, two inches thick, better and more economical than brick, corrugated iron or wood.

HY-RIB does away entirely with centering and stiffening channels. Simple to erect, merely fasten to framework and plaster.

HY-RIB Concrete Roofs—Built without forms—
Packard Motor Car Co., Detroit.Artistic HY-RIB Concrete Sidings—Built without forms—
Sunset Publishing Co., San Francisco, Cal.

HY-RIB Hand Book contains complete information on many applications with details, specifications and illustrations. FREE upon request.

Trussed Concrete Steel Company

DETROIT, MICHIGAN

Reinforced Concrete, Hy-Rib and Lath, Steel Sash, Waterproofings, Finishes Building Specialties.





Special UNITED STEEL SASH in DETENTION BLDG. AND IMMIGRATION STATION, Gloucester, N. J.
Ventilators are one light in height, extending full width of sash. Note at right that entire sash are pivoted at top and bottom.

UNITED STEEL SASH—The Complete Line of Improved Types

UNITED STEEL SASH is the ONLY Complete Line with improved types of Sash for all conditions of openings—Vertical and Horizontal Sliding Sash, Pivoted Side Wall Sash, Center Pivoted and Top Hung Continuous Sash, Casement Sash, Hinged and Sliding Doors, Steel and Glass Movable Partitions and Special Sash to meet all requirements. Superior in design and workmanship—Simple and economical method of glazing—improved ledge requires less putty.

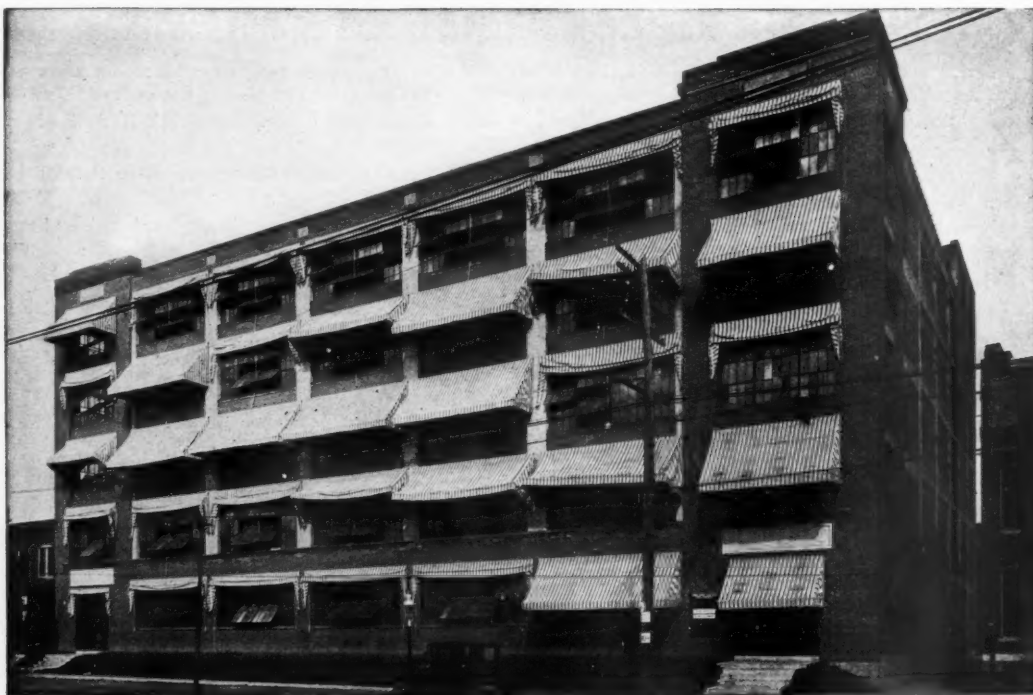
No Weak Joints—Exceptionally Strong and Rigid

UNITED STEEL SASH have no weak spots. Machine-built of solid steel sections. No cutting or punching away of metal at joints. Exceptional strength permits any amount of ventilation, anywhere; even to full width of unit if desired.

Shut Out Drafts and Storms

Tight-fitting joints are made absolutely weatherproof by means of powerful presses. Double contacts around ventilators and improved locking devices. UNITED STEEL SASH Buildings cost less to heat.

FREE! Large UNITED STEEL SASH Hand Book—describes all types of Sash with complete details and illustrations. Full of valuable building suggestions. Write us about your proposed work.



Daylight and Sanitary Premium Factory of RICE-STIX DRY GOODS CO., St. Louis, Mo.
Equipped Throughout with UNITED STEEL SASH—66-2/3% Ventilation. G. F. A. Bruggemann, Architect.



Trussed Concrete Steel Company
DETROIT, MICHIGAN

Reinforced Concrete, Hy-Rib and Lath, Steel Sash, Waterproofings, Finishes, Building Specialties.



CURRENT NEWS AND COMMENT

Women as Architects

The alleged suitability of women as architects is again under discussion in the daily Press, as the result of what is called "Lady Osborne Morgan's criticism of male architects" in the course of the inaugural ceremony of the Arts and Crafts Exhibition in connection with the National Eisteddfod at Wrexham. Lady Osborne Morgan, in congratulating the promoters on the success of the exhibition, is reported to have said, referring to the designs for workmen's cottages in the competition promoted by the Welsh Housing Association: "The profession of architecture offers strong inducements to women. The knowledge and experience of the home should enable women to make it a profitable as well as a useful profession, for, with all due deference to the lords of creation, I do not think male architects quite understand the construction of a larder." Probably these remarks were not made seriously, but a point of the criticism, implying that the construction of a house consists in the designing of larders, is being endorsed by writers in the daily Press. A well-known provincial journal, at all events, commenting on these remarks, appears to think that in the great majority of the houses put up as the habitations of the lower middle class the needs of women receive strikingly inadequate consideration: "Houses rented at from twenty-four to thirty pounds a year have no cupboards worth talking about," implying, of course, that the male architect is at fault, whereas no architect has anything to do with the great majority of these buildings. It is true that the real author of these structures—the speculative builder—is mentioned later on, but the writer's confusion in facts is shown when he says: "Garden cities in various parts of the country are showing that conditions can be improved with no greater demands on space or funds. * * * Possibly our architects of Suburbia will follow the example. * * * The existing state of things might easily be improved by women architects, presuming that they had domestic knowledge and experience on which to base their designs." We need scarcely point out that conditions have improved in garden cities because of the increasing employment of architects, and we doubt whether women architects, even with domestic knowledge and experience, would be able to improve on the existing state of things, though we might welcome the substitution of the woman architect for our old friend the Jerry-builder.—*The Builder* (London).

The Death Throes of Art

Despair is writ large on the brow of Mr. George Moore, who prophesies in a London paper that art in fifty years will be no more. Nay, the "art age has ended as completely as the stone age," Mr. Moore says. It should be national and insular, but now it is "impossible to distinguish between the art of one country and that of another." Whistler was not American. He represented French painting because he was trained in France, but—wonder of wonders—"he came to England and developed painting of his own!"

So Whistler came to represent no nation, but his own genius. Mr. Moore says that his picture, "Little Miss Alexander," brought something new into art, which did not exist before. Why then stickle for nationality? France should have spoiled an American, if Mr. Moore's observations are of worth. Painting deals in universals, and national modes of expression may serve to conceal mediocrity, as well as to be vehicles of individual genius. It is well that schools should flourish in every nation, schools with traditions, and emulative of each other. This is an indispensable condition. But in the last analysis the survival of art depends upon individual men. We may still hope that men will arise to be founders of schools as in past times.—*New York Times*.

City College Great Hall and Its Acoustics

After experiments extending over the past two and a half years, the faulty acoustics of the great hall at the College of the City of New York are said to have been overcome, and it is believed that the big auditorium can now be used successfully for meetings and lectures.

The hall is 180 feet long, 90 feet wide, and 90 feet high, and it was planned to use it not only for college purposes but for large civic meetings. Then shortly after its dedication, in 1908, it was found that the voice of any one speaking from the platform was unintelligible in the rear or to the side of the hall because of the excessive reverberation.

A Limit to the Size of Buildings

The announcement that the Earl's Court authorities are considering the erection of the largest hall in the world, with a roof span of over 300 feet, raises the question as to whether there is any practical necessity for limiting the size of buildings in a city. The area that any one building can occupy

seems to be determined by the necessities of the traffic and by the need for free intercommunication between every part of the town. No building should cover so much ground as to cut off direct communication unless, like a palace, it is of first-rate public importance, or, like a park, it has advantages in other directions which provide an adequate compensation for the loss of convenience. The new London County Council Offices, with a length of over 800 feet, might be inconveniently large from the town-planning point of view were they not placed by the river, where no question of intercommunication arises; but, even so, they appear to approach the point in size at which the convenience of a single building ceases, even from its own point of view. The bank of a river, where communication from side to side is already rather restricted, seems the natural position for such buildings as require great length, but when they are placed in districts where the traffic cannot be interfered with the treatment adopted at the Louvre of taking the traffic through the ground floor of the building appears to be the most practical expedient. We seem to need some definite pronouncement as to the distance between streets with reference both to the convenience of traffic and to the development of the area between them.—*The Builder* (London).

Oldest Museum in the World

Dr. Otto Kummel, head of the East Asiatic Department of the Berlin Museum of Ethnology, tells of the oldest museum in the world, in the bulletin of the Société Franco-Japonaise. This museum may be found in the city of Nara, the former capital of Japan. Since its foundation, in 756, it went through all the changes of the Japanese Empire without one single addition to its collection. Dr. Otto Kummel is one of the few Europeans who were permitted to visit this museum. It opens its doors but once a year, on a day in spring, when a special committee inspects the collection, and a new list is made out. The museum contains about 3,000 articles, which are said to be the most beautiful specimens of decorative work which have ever been produced by human hand; such as lacquer ware, decorative furniture, enamel ware, cambric like fabric, etc. The origin of the majority of the articles is uncertain; some came from China and others from Corea, but most of them appear to be of a more exotic origin. All, however, came of a time prior to the year 756.—*The Architectural Review* (London).

New York Chapter A. I. A. Annual Apartment House Award

The New York Chapter of the American Institute of Architects awards each year two medals and four honorable mentions for excellence in exterior designs for apartment houses. These awards

of medals and honorable mentions are made to the owners. It is customary for them to award one medal to the class of apartment houses more than six stories in height and one medal to the class of apartment houses six stories or less in height, giving two honorable mentions to each of the above two classes.

The points for consideration in making the award are simplicity, good proportion, artistic and practical use of inexpensive materials, the avoidance of imitation or sham materials, the adaptability of design to site, and the satisfactory solution of the necessary utilitarian features.

Any apartment house which has been erected within the Boroughs of Manhattan and the Bronx and shall have been completed within three years previous to October 1st is eligible for judgment, providing it has not received a medal or honorable mention in the preceding year.

These medals are of bronze inscribed with the owner's name and the location and name of the apartment house, and are accompanied by a certificate setting forth the considerations of the jury in making the award.

The certificates of honorable mention are inscribed on parchment with the name of the owner, location and name of the building and the considerations of the jury, and the owner may have an inscription on the building similar to that for the medal, using the words "honorable mention" instead of the word "medal."

The jury making the awards consist as follows: C. Grant La Farge, president of the New York Chapter; Robert W. De Forest, president of the Art Commission; John J. Murphy, Tenement House Commissioner; five members of the New York Chapter, and Egerton Swartwout, 244 Fifth avenue, secretary of the New York Chapter.

Personal

Mr. William Leslie Welton, architect, Birmingham, Ala., has moved to his new offices in the American Trust & Savings Bank Building. He desires to receive catalogues and samples with reference to the selection and use of material for fire-proof hotel and office-building structures, upon which he is now engaged.

Buettler & Arnold, Sioux City, Iowa, architects, announce that they have opened an office in the Davidson Block, where they will practice their profession. They desire to receive manufacturers' samples and catalogues.

Mr. Clinton B. Cook, architect, announces that he has opened an office in Asbury Park, New Jersey, where he will practice his profession. He desires to receive manufacturers' samples and catalogues.

INDUSTRIAL INFORMATION

IN this section will be found information concerning late catalogues issued by manufacturers of building materials, fixtures or equipment. Also under this head will be printed, from time to time, certain data relative to new devices or methods of construction considered to be of interest to architects. Architects are invited to make use of THE AMERICAN ARCHITECT'S Catalogue Files and Information Department whenever they can do so to advantage. Any assistance we can render or information we can furnish in this connection will be freely given.

Electrical Devices

Catalogue No. 20, of Pass & Seymour, Inc., Solvay, N. Y., has been issued to supply illustration and description of a large line of electrical devices made by this Company.

The line of sockets, plugs, receptacles, etc., is made in a variety of designs to comply with the insistent demand which requires that even the minor details of equipment shall receive some artistic expression.

In addition to this feature of artistic design, the makers state that long experience in this business has enabled them to combine the most approved forms of wiring and connecting and provide such devices as architects who are careful to preserve all the elements of thorough detail will be inclined to specify.

J-M Waterproofing Department

The importance attached to that branch of engineering which deals with the waterproofing of building construction has become so great as to encourage the H. W. Johns-Manville Co. to establish and devote a special department to it.

It is expected that this new department will be of great assistance and value to architects, engineers and others directly or indirectly interested in the matter but who do not possess that intimate knowledge of the subject necessary to secure the best results either for themselves or their clients.

Mr. W. H. Lawrence will be in charge.

The Western Electric in Cleveland

The Western Electric Company's distributing facilities have been increased by the addition of a house in Cleveland, Ohio, as the result of taking over the business of the Cleveland Electrical Supply Company.

The entire personnel of the supply company is retained, with the exception of R. F. LaGanke, vice-president and manager, who is retiring from active business.

"The Leaderite"

The Leaderite, the monthly "house organ" of the Leader Iron Works, Decatur, Ill., and Owego, N. Y., presents in the usual way good articles in relation to work in its field, together with illustra-

tion and description of the various specialties that combine to make the Leader Water System. Architects contemplating the installation of isolated systems of water supply will find useful information in these monthly bulletins.

Fireproof Partitions

A pamphlet issued for free distribution by the Henry L. Lewen Company, Brooklyn, N. Y., describes and illustrates by means of well-drawn details and photographs, taken during construction, the employment of Lewen plates of hollow-rib sheets of steel in the reinforcing of concrete. These plates, it is stated, obviate centering or form work, furring strips or studding, and may be used with or without steel framework in foundations and walls either solid or hollow.

The pamphlet presents in a very comprehensive way the merits claimed for this form of construction, and will be found interesting to architects and builders.

"Sanitary Pottery"

It is interesting to note the large amount of information, not only technical but general, that is gathered and published in the monthly issues of the various publications issued by advertising departments of large industries. *Sanitary Pottery* for September, issued by the Trenton Potteries Company, Trenton, N. J., for example, appears in attractive form and contains considerable useful information as to the latest patterns and types in plumbing fixtures.

The "Lowerator"

The Lowerator Company, whose main offices and factories are at 631 Kent avenue, Brooklyn, N. Y., have recently issued an attractive illustrated catalogue. This pamphlet describes the "Lowerator," the name used to designate a special machine for lowering merchandise from the several floors of a building and delivering it at the point of shipment.

Briefly described, a series of cars or platforms evenly spaced are attached to an endless cable. No power is required to start the carrier; the weight of the merchandise effects this, and the speed is regulated as desired irrespective of the varying

weights that are imposed. The entire device is one that appears to combine features that add to the quick and economical handling of merchandise, and would seem to be worthy of investigation. The illustrations in the pamphlet referred to show installations to handle different types of merchandise, and all would seem to indicate a wide range of adaptability.

Plumbing Goods

Catalogue D, issued by the Monument Pottery Company, Trenton, N. J., is a pretentious volume of more than 200 pages, 9 x 12 inches, and illustrates the line of porcelain and vitreous ware plumbing fixtures made by this company.

The illustrations would seem to indicate that, in addition to care in manufacture and selection of material, much thought has been bestowed on the designing of these utilities so as to combine as far as possible an artistic result.

In addition to the usual bath-room equipment, there is shown plumbing fixtures designed for hospital, laundry, school and public-building equipment.

Slate

E. J. Johnson, 36 Park row, New York, is a quarrier of slate, who states in a pamphlet recently issued that he has had twenty-seven years' experience in this business and that he is operating five quarries, together with four others whose output he controls. He therefore believes that he is unusually well prepared to supply a variety of slate for roofing and other structural purposes, as well as for blackboards, etc., and desires to communicate with architects who are in search of colors and textures for specific uses.

Steel Lath

The Garry Iron & Steel Company, Niles, Ohio, are the makers of a steel lath which, they claim, can be used for every purpose where lath is employed. They further state that its weight, $4\frac{1}{8}$ pounds to the square yard, provides a rigid lath and that the smooth selvage adds to its ease of application, while the corrugations insure continuous bond and provide for the usual contraction and expansion.

A pamphlet which has been recently issued illustrates a number of pretentious buildings in which this lath has been used.

Metal Casements and Sashes

Much of the charm of the English house, both in its exterior and interior aspect, is in its fenestration and the use of casement windows. So generally conceded is it that they lend picturesqueness of design that their introduction is becoming more usual, and the result more satisfactory. The objec-

tions urged against this type of window has been that when the frame and sash have been of wood it has not been possible to secure the storm-resisting qualities that are necessary.

The introduction of metal frames and sash has in a large measure overcome this objection, and many types have been designed both in this country and in Europe to provide a window that would meet every modern requirement of weather and fire-proofing, combined with durability, positiveness of action and artistic design.

George Wragge, Ltd., of London, England, manufacturer of metal casements, has for his agent in this country Mr. F. G. Draper, 105 W. 40th street, York, who has forwarded to us an illustrated catalogue, 10 x 14½ inches, showing a line of metal casements designed for every use where this form of window may be introduced. A feature of this catalogue is the reproduction of a series of sections for each type of window. These include the sections through heads and sills, and the plan of jambs. In addition, each type of window illustrated has accompanying it an exterior view of a building showing its equipment with the casement.

The catalogue is prepared in a way that permits architects to readily analyze the various types and decide on the particular one that best meets his needs.

Gypsum

The United States Gypsum Company, 205 W. Monroe street, Chicago, with offices in all principal cities, announces the opening of their new Southern factory, which they claim is the largest plaster-manufacturing plant in the South, and one of the most modern and perfectly equipped plants in the country.

The rapidly increasing number of factories erected by this company would seem to indicate the favorable reception of their product on the part of the architect and builder.

American Radiators

The September issue of the *Ideal Heating Journal*, the "house organ" of the American Radiator Company, issued from the office of the journal, 816 South Michigan avenue, Chicago, and intended for gratuitous distribution, is, aside from the discussion of topics of special interest to men whose business is the installation of heating apparatus, also of interest to those engaged in the designing of heating plants. The issue further contains illustrations of many important buildings of recent construction, and among them a double-page photograph of West Point Military Academy Reservation, showing the new buildings in their picturesque setting.

Architects may receive this publication upon application.

Dark Weatherbeaten Gray

—the real old Coast-of-Maine tone, seen from Kennebunk to Monhegan, Matinicus and Machias—is exactly reproduced by

No. 1092 Special of Cabot's Creosote Stains

Send for a Sample Shingle.

SAMUEL CABOT, INC., Mfg. Chemists, Boston, Mass.

1133 BROADWAY, N. Y.

350 DEARBORN AVENUE, CHICAGO

AGENTS EVERYWHERE

Cabot's Quilt, Waterproof Cement and Brick Stains

Conserve Wood Preservative, Damp-proofing, Waterproofing



Residence of Walter M. Collins, Builder, Bayville, who writes: "The side walls are of 24" red cedar shingles stained with your Special Gray and laid over your single-ply 'Quilt.' The Quilt is certainly a good investment, as the house is in a very exposed position, and after the hardest winter in years, without a frozen pipe or any difficulty in heating, I feel that the small additional cost over ordinary building paper has already been saved in coal and comfort."

Fresh Air Is A Big Asset to Any Type of Building



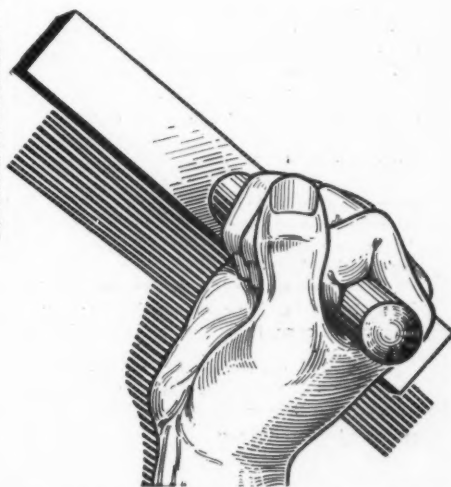
Fresh air is a most important factor in the promotion of good health. To insure a constant supply of fresh air, "GLOBE" VENTILATORS meets every requirement of ventilation. Their use means positive efficiency and are pronounced invaluable by the thousands who have installed them. Let us send you a copy of our booklet containing valuable facts.

GLOBE VENTILATOR COMPANY
TROY, NEW YORK

SATISFACTORY
INDIRECT
ILLUMINATION
SCIENTIFIC • ECONOMIC
BEAUTIFUL • EFFICIENT

*THE COMFORT SYSTEM
REFLECTOR*

Branded!



National X-Ray Reflector Co.

Chicago
245 Jackson Blvd.

New York
505 Fifth Ave.

THE COMFORT SYSTEM
REFLECTOR SYSTEM

BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

BIRMINGHAM.—Plans have been prepared by Architect William C. Weston, Brown Marx Bldg., for a 12-story hotel to be erected at a cost of \$1,000,000.

Dr. J. H. Williams, Dr. F. B. Sutton and others are organizing a company for purpose of erecting a sanitarium in this city.

The Jefferson Realty and Building Co. will shortly erect a bank and office building.

MOBILE.—Architect George B. Rogers, Van Antwerp Bldg., has prepared plans for remodeling the City Bank & Trust Company's building.

ARIZONA

MESA.—Dr. R. F. Palmer has received the plans and specifications for the new hospital building that he proposes to erect on his home lot, corner of Center and First Sts., Mesa. The plans were drawn by Architect Royal O. Lescher, of Phoenix. Bids for the construction of the building will be advertised shortly.

PHOENIX.—The El Zaribah of the Ancient and Arabic Order of the Nobles of the Mystic Shrine is planning the erection of an auditorium to cost about \$125,000 on North Central Ave. It will be known as the Shrine Temple and Auditorium.

ARKANSAS

BATESVILLE.—Architect John Gaisford, of Memphis, Tenn., will prepare plans for a church to be erected by the Methodist congregation. Rev. T. Y. Ramsey is pastor.

CONWAY.—Architect John Gaisford, of Memphis, Tenn., will prepare plans for a \$40,000 brick and stone edifice to be erected by the Methodist congregation. D. O. Horton is chairman of the building committee.

CALIFORNIA

EL SEGUNDO.—The Standard Oil Company will erect large asphalt plant immediately in this town.

LONG BEACH.—E. B. Smith has leased site at 117-123 West Ocean Ave. to the Pacific States Investment Company, of Los Angeles, and S. P. Bradford, of 115 West Ocean Ave. On this site the lessees will erect a building either four or six stories in height that will cost at least \$50,000.

LOS ANGELES.—Architect I. E. Frary has completed plans and is taking bids for the erection of brick store and hotel building at 819-823 South Hill St., for D. F. Hill, 716 Union Oil Bldg. Estimated cost \$75,000.

Architects Eager & Eager, Story Bldg., are preparing plans for a 6-story brick store and hotel building to be erected at the corner of Pier Ave. and Speedway, Ocean Park, for E. A. Allen.

Prominent German-American citizens of Los Angeles are arranging plans for the erection of a modern concrete structure, costing approximately \$500,000, for the home of the various German societies of this city. Joseph Blust is one of the directors.

LOS ANGELES.—Architects Noonan & Kysor, Wright & Callender Bldg., have prepared plans for a 4-story brick apartment house, to be erected by Jacob Morris; estimated cost, \$80,000.

Plans have been prepared by Architect C. C. Rittenhouse, Wilcox Bldg., for 4-story brick apartment house, to be erected for E. B. Haebone. Bids are now being taken; estimated cost, \$60,000.

OCEAN PARK.—Plans for an 8-story hotel building designed by Architect Burgess J. Reeves for the site of the burned Decatur Hotel, have been completed.

PASADENA.—Charles W. Durand is said to be planning the construction of a handsome business building on his property at the corner of Colorado St. and Los Robles Ave., taking the place of large residence now occupying the site.

SACRAMENTO.—A 4-story, steel-framed, pressed brick and terra cotta building for the Pacific Gas & Electric Co. is to be erected on the corner of 11th and K Sts., Sacramento, the site and building costing \$450,000.

SAN FRANCISCO.—Commissioners from Japan to the Panama Pacific International Exposition have selected a site for the million dollar building and garden, which their government will present to America as a permanent exhibit. The spot chosen is in the Presidio.

SAN FRANCISCO.—Architect W. G. Hind, 46 Kearny St., has prepared plans for 3-story apartment house, to be erected by Dr. Clyde S. Payne; estimated cost, \$19,000.

SAN FRANCISCO.—The Michigan Buggy Co. of Kalamazoo will erect new branch plant in vicinity of San Francisco. New branch will be known as "the Michigan Motor Car Co., California Branch."

STOCKTON.—A local architect is preparing plans for the new St. Agnes' Academy to be constructed at the north-east corner of San Joaquin and Park Sts., by local Catholics. The building is to be three stories high.

WALNUT CREEK.—Plans are being formed by the R. N. Burgess Co. for the erection near the depot of the Oakland and Antioch line of a modern business block.

COLORADO

DENVER.—Plans for a sanitarium for tuberculosis sufferers have been discussed at a business meeting of the diocesan union of the Holy Name societies of Denver. The institution, as now considered, will be strictly Catholic and will be erected at the expense of the various Catholic organizations of Denver.

The Ford Automobile Company of Detroit, has purchased five acres of land on the east side of Broadway, at Exposition Ave., and will start at once with the erection of a 4-story assembling plant for the handling of its Western business.

CONNECTICUT

BRIDGEPORT.—Plans drawn by Architect M. A. Cooper, 1217 Main St., are being figured for changes to a house at the corner of State St. and Colorado Ave., owned by Vincent Bros. The house is to be moved so as to face Colorado Ave., and will be remodelled. It is probable that a new block will be erected on the property in the near future.

Architect A. S. Meloy, P. O. Arcade, is drawing plans for a 3-family house on Lindley St., for M. H. Wagner.

MIDDLETOWN.—Plans for addition to high school, prepared by Architect Charles Scranton Palmer, of Meriden, have been submitted to members of the board of education and have been approved by them. Estimated cost, \$95,000 for land and building.

WATERBURY.—Architect Joseph T. Smith, 36 North Main St., is preparing preliminary sketches for the city hall to be erected here. After it has been settled on the location and arrangements needed, a competition will be held for the final plans.

Barrett Specification Roofs



On Four Great Granaries

Special Note

To cover the four huge granaries illustrated herewith the Canadian Pacific R. R. engineers chose Barrett Specification Roofs for good and sufficient reasons.

These practical men know that these roofs will last *20 years or more*.

They further know that they will need no painting or maintenance expense of any kind and that the net cost per year of service will be infinitely lower than could be shown by any other type of roofing.

It is for these very reasons that Barrett Specification Roofs are used on more first-class buildings in the United States and Canada than any other kind.

A big roof generally means a Barrett Specification Roof, for the reason that the cost of big roofs is carefully scrutinized and ultimate economy carefully considered. Small roof areas ought also to have Barrett Specification Roofs, because they are just as economical and satisfactory there.

Copy of The Barrett Specification with tracings ready for incorporation into building plans free on request. Address nearest office.

We advise incorporating into plans the full wording of The Barrett Specification, in order to avoid any misunderstanding.

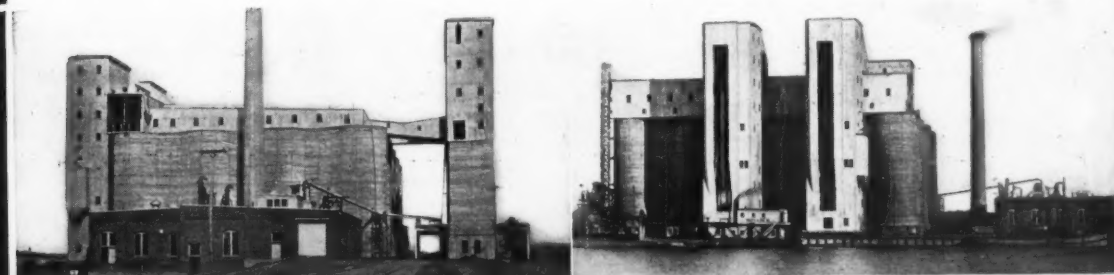
If any abbreviated form is desired, however, the following is suggested:

ROOFING—Shall be a Barrett Specification Roof laid as directed in printed Specification, revised August 15, 1911, using the materials specified, and subject to the inspection requirements.

BARRETT MANUFACTURING COMPANY



New York Chicago Philadelphia Boston St. Louis Cleveland Pittsburgh
Cincinnati Kansas City Minneapolis New Orleans Seattle London, Eng.
The Paterson Mfg. Co., Ltd., Montreal Toronto Winnipeg Vancouver St. John, N. B. Halifax, N. S.



Architects Griggs & Hunt, West Main St., will have plans completed shortly for a residence to be erected in Watertown for Eugene Wheeler.

DELAWARE

WILMINGTON.—The Pusey & Jones Company is planning to enlarge its foundry and to make other improvements, at cost of \$100,000.

DISTRICT OF COLUMBIA

WASHINGTON.—Kennedy Brothers have practically completed plans for the construction of fifteen additional houses on Quebec St., adjacent to Georgia Ave.

WASHINGTON.—Dr. William M. Davidson, superintendent of public schools, is conferring with Commissioner Judson, William Ittner, an architect of St. Louis; Principal Emory Wilson of Central High School and Snowden Ashford, on plans for proposed new high school building. The new building is to take the place of the present brick building which houses the classes of the Central High School, and must have a seating capacity for 2,500 pupils.

FLORIDA

PENSACOLA.—Plans have been prepared by Architect G. W. Kramer, of New York, for a church to be erected by the First Christian congregation at cost of between \$15,000 and \$20,000.

TAVARES.—Plans are being prepared by Architect Chas. Henry, Eustis, Fla., for an addition to courthouse of Lake county.

GEORGIA

ATLANTA.—The Atlanta Baking Company is now preparing to erect a new factory on Alta Ave., between Moreland and Euclid Aves. The new structure will be absolutely fireproof and will cost \$30,000.

ATLANTA.—The plans for the new Y. M. C. A. building on Luckie St., opposite the Tabernacle, which were drawn by Shattuck & Hussey, Chicago architects, have been approved by the building committee of the Y. M. C. A. The building will cost \$250,000.

MADISON.—Congregation of Methodist church is planning to erect church building at cost of about \$40,000.

SYLVANIA.—Plans for church building are being considered by official board of Baptist church. It is proposed to erect building to cost about \$12,000. Rev. Chas. R. Hutchings is pastor.

ILLINOIS

CHICAGO.—James S. Kirk & Co. have purchased vacant property at the corner of Michigan and Pine Sts. They plan to erect an addition to their plant at that corner.

White & Tabor have formed a new syndicate which has purchased the property at the corner of Paulina and Elk Sts., and the syndicate has in turn leased same to H. Louis Gumbiner. The lessee will erect a moving picture theater, which will also contain two stores, at a cost of \$25,000.

Bruno Pinkert, 1508 So. 44th Ave., has purchased 25 lots in Tabor subdivision at New Tabor Park. Mr. Pinkert will erect at once twenty-five modern two-apartment buildings, making a total investment of over \$110,000.

PEORIA.—Architect Hewitt, 321 Main St., will have plans for the new high school ready for submission to the board in a short time and it is hoped to have the contract for the new building let this fall.

INDIANA

GARY.—United States Steel Corporation has reserved five sites in 5th Ave. for a new Masonic temple, which will cost \$100,000.

HUNTINGTON.—Appropriation of \$75,000 has been made for erection of new postoffice building. Plans are being prepared by Supervising Architect Oscar Wenderoth, of the Treasury Department, at Washington.

INDIANAPOLIS.—The H. J. Martin Forging Company has purchased 2.3 acres of ground at 510 S. Harding St. H. J. Martin has announced that improvements to cost \$50,000 will be started within a few days.

SOUTH BEND.—John H. Mitchell, proprietor of the Chicago Wall Paper store, 319 South Michigan St., will erect an \$18,000 business block at Michigan and Monroe Sts.

IOWA

DES MOINES.—Contracts will be awarded shortly by J. A. Hosmer, president of the Hawkeye Transfer Company, for the erection of a modern fireproof 7-story warehouse at Fifth and Tuttle Sts. The designs for the building have been prepared by Architects Proudfoot, Bird & Rawson, Flynn Bldg. The new building is to cost approximately \$100,000.

KENTUCKY

HORSE CAVE.—Bonds in sum of \$12,000 have been voted for erection of new public school building.

LATONIA.—Geo. W. Schofield, 615 Madison Ave., Covington, is making plans for an 8-room brick residence, to be erected for H. C. Meiners. Ready for bids shortly.

LEXINGTON.—G. F. Vaughan, of the Vaughan-Cunningham Tobacco Company, has purchased a lot at the corner of Bell Court and Main St. upon which he contemplates building a 5 or 6-story apartment house. The plans for the new building have not yet been worked out in detail, but it is said the new structure will cost close to \$50,000.

MARYLAND

BALTIMORE.—A new church is planned for the western suburbs by the Chesapeake Conference of Seventh Day Adventists, who will erect an imposing stone structure on the east side of Ninth, now Rosedale, St. The plans were drawn by Arthur L. Blatchley and call for an expenditure of about \$10,000.

ELK RIVER.—A \$10,000 bungalow will be erected on Elk River, near Town Point, by John A. Long, of Philadelphia.

MASSACHUSETTS

BOSTON.—Plans have been prepared by Architects Kendall, Taylor & Co., for a building to be erected at Atlantic Ave., India Square, India and Storer Sts., for Samuel Ward Company of 49 and 51 Franklin St.

CHICOPEE.—Architect George P. Dion has prepared plans for new hall to be erected for the Polish societies of Chicopee; estimated cost \$30,000.

HOLYOKE.—Oscar Beauchemin the architect, whose offices are in the City Bank Building, is preparing plans for a new 5-story block to be erected by Frank Pelott, of 298 Chestnut St.

SPRINGFIELD.—The Springfield Rendering Company intends to expend between \$75,000 and \$100,000 on changes and improvements to its Brightwood plant.

MICHIGAN

GRAND RAPIDS.—The Benjamins are taking figures for the erection of a two-story brick block at Barclay and Michigan Sts. The building is for R. D. Carson and the cost will approximate \$10,000.

GRAND RAPIDS.—Architects Warren & Wetmore, New York City architects, will prepare plans for the new Pantlind Block, incorporating suggestions of the local committee and suggestions of their own.

SAGINAW.—The Bolton Auto Company has acquired the property on the east side of Washington Ave. and will at once erect a large brick block. F. H. Beach is president of the company.

Steel Windows in Modern Power and Industrial Buildings

Superintendents and foremen working with large numbers of men know that *better* work and *more of it* can be had from their employees when they work in a well-lighted, well-ventilated factory or shop. DETROIT-FENESTRA means more daylight and ventilation—*increased* labor efficiency. Men who work in light, airy, cheerful shops and factories are doing their best every minute of the day.

Detroit-Fenestra
PATENTED

Solid Steel Windows

are fireproof; built to endure time and weather. These three photographs show DETROIT-FENESTRA installed in two Boston plants—The Boston Cold Storage & Terminal Co., and The Boston Elevated Ry. (power house and exterior view).

Owners, architects, builders, engineers, and those interested in building construction should send for our new Catalog W, illustrated.

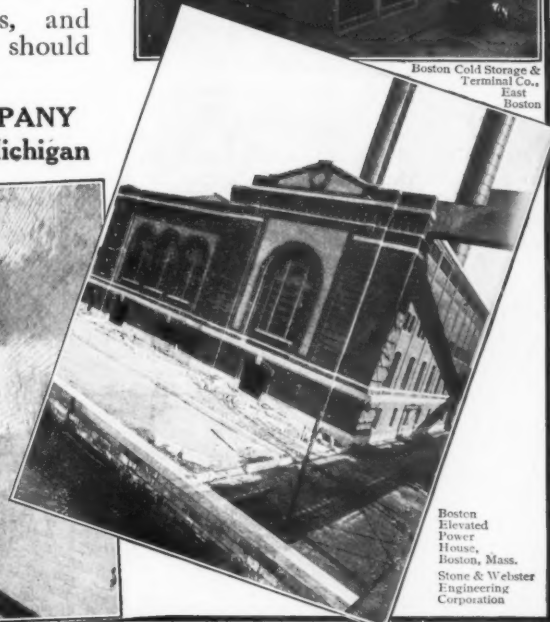
DETROIT STEEL PRODUCTS COMPANY
Manufacturers Dept. 6, Detroit, Michigan

Boston Elevated Power House, Boston, Mass.
Stone & Webster Engineering Corporation.

Monks & Johnson, Engineers



Boston Cold Storage & Terminal Co.,
East Boston



Boston
Elevated
Power
House,
Boston, Mass.
Stone & Webster
Engineering
Corporation



MINNESOTA

ALBERT LEA.—Architect Frank L. Young, Palladio Bldg., Duluth, is preparing sketches for a \$15,000 addition and remodeling job on an apartment building owned by Dr. Rodli.

DULUTH.—Edward Dormedy has called for bids for an addition to his building at Central Ave. and Ramsey St. to cost \$18,000. It will be a 3-story brick structure.

EVELETH.—Architects Ellerbe, Round & Sullivan, 692 Endicott Arcade, St. Paul, are preparing plans for a public library building to cost \$20,000.

FARIBAULT.—This city will have a \$20,000 armory, which will be erected this fall.

MANKATO.—A new bank, office and store building will be built by the First National Bank of Mankato, from plans by Architects Ellerbe & Round, Endicott Bldg., St. Paul.

MINNEAPOLIS.—The Nicollet House is to give place to a modern 8-story hotel. The new hotel will contain 400 rooms and will probably cover the half block included by Washington, Hennepin and Nicollet Sts. and the alley in the middle of the block. W. E. Capron will continue as manager. The present hotel company, including Mrs. Frances E. Shattuck, William F. Baird and W. E. Capron, will be the owners.

MINNEAPOLIS.—The E. D. Staude Manufacturing Co., 530 S. 5th, will expend \$100,000 in their new plant at Midway at once. Architect, Clifford T. McElroy, Boston Block.

MOORHEAD.—Bids will be received at the office of the supervising architect, Washington, D. C., up to October 21 for the construction of the post office building in this city.

ST. PAUL.—The plans for the large warehouse to be erected by G. Sommers & Co., on Grove, Woodward and the Soo tracks, are ready for figures. Architect, James F. Denson, Germania Life Building. Cost, \$150,000.

ST. PAUL.—Bids for the construction of the new boys' dormitory at the school for the feeble minded at Faribault, have been opened by the State Board of Control, but were all beyond the appropriation of the board for the school, so bids will be asked in another advertisement.

ST. PAUL.—George G. Stamm and Henry Stafford have purchased the old Waller homestead at Sheridan Road and Aridrie Place. The new owners will erect an apartment building on the site.

MISSOURI

ST. LOUIS.—An 8-story business and factory building will be erected by Thomas M. Sayman, manufacturer of soaps and toilet preparations, at 2127 and 2129 Franklin Ave., adjoining his present extensive building. The plans for the building have been drawn by Architect Albert B. Groves, 314 North Fourth St. Estimated cost, \$230,000.

NEVADA

RENO.—The Nevada Historical Society has selected a site on North Center St. as the site for the new Nevada Historical Bldg. and on October 15 will let the contract for the construction of the building, which will cost about \$10,000.

NEW HAMPSHIRE

PLYMOUTH.—Plans have been accepted for Plymouth's new hotel, which will be opened early in the spring for business. The successful architect is A. T. Ramsdell of Dover.

NEW JERSEY

GARWOOD.—Bids will be received by the Board of Education in the Jefferson School on October 11, 1912, at 8 P. M. Plans and specifications to be obtained at the office of the architect, D. C. Newman Collins, 29 Broadway, New York.

HADDONFIELD.—Citizens have voted to bond the town for

the purchase of a site at the corner of Redman and Peyton Aves., and the erection of a grammar school building. The cost of the ground is to be \$1,600 and the building and furnishings \$19,400.

JERSEY CITY.—The Manhattan Electric Supply Company is planning to erect new factory at Pine St. and Johnston Ave.

LYNDHURST.—Bids will be received by the Board of Education of the township of Union until 9 o'clock P. M., October 7, 1912, at Lincoln school building, Ridge Rd., Lyndhurst, for the complete construction of a public school building. Plans may be secured from the architects, Ernest Sibley and William W. Rasmussen, Palisade, N. J., or from W. J. Liston, secretary of the board, Lyndhurst, N. J.

NEWARK.—Plans for factory to cost \$28,000 have been filed with the Building Department. It is to be located at 361-365 Ogden St. and will be built of brick, four stories high. The owners are the Spring St. Realty Company. Fred A. Phelps, 11 Clinton St., is the architect.

NEWARK.—Work will shortly be started on the foundations for a 1-story brick building on the corner of Bloomfield Ave. and Ridge St. for the Progressive Investment Company. Architect Hyman Rosensohn has completed plans for the building, the estimated cost of which is given as \$12,000.

ROSELLE HEIGHTS.—Architect J. Ben. Beatty, 72 Broad St., Elizabeth, has completed plans for a sanatorium, to be erected in Roselle Heights.

SEABRIGHT.—Architects Watson & Huckel, of Philadelphia, Pa., have been commissioned to prepare plans for a fireproof hotel building to be erected in the Ocean Drive and Rumson Road. The structure will contain 400 rooms and the cost has been estimated at \$500,000.

NEW YORK

BROOKLYN.—Architects Shampman & Shampman, 772 Broadway, are preparing plans for two modern apartment buildings to be erected on the corner of Sixty-eighth St. and Third Ave. for Harris Wilner as owner. The cost of the building is estimated at \$80,000.

Plans have been filed for twenty-six 3-story, six-family apartment houses which the Georgia Building Company proposes to erect on the east and west side of Alabama Ave., between New Lots and Hegeman Aves. The plans have been drawn by Charles Infanger, of Atlantic Ave., and the cost of the project is estimated at \$160,000.

BROOKLYN.—Plans have been filed for a 6-story elevator apartment for the west side of Washington Ave., 102 feet south of Gates Ave. It is estimated that the cost of the building will be \$150,000. Plans have been made by Slee & Bryson, architects, Montague St.

BUFFALO.—Bids for remodeling the building formerly known as the Buffalo Orphan Asylum, located on the corner of Virginia and Morgan Sts., to be used for the temporary accommodation of the Masten Park High School, will be received by the Commissioner of Public Works at his office, Room 5, Municipal Bldg., until 11 o'clock a. m., October 5, 1912.

ELLENVILLE.—Architects Teller & Betz, of Kingston, are preparing plans for a 2-story brick and stucco building for Mrs. John H. Richards at Ellenville. The building is to cost \$10,000.

HEMPSTEAD, L. I.—New postoffice building will be erected on Main St., north of Fulton Ave., to cost about \$15,000.

NEWARK.—The Rochester, Syracuse & Eastern Railroad Company is preparing to erect a passenger station in Newark to cost about \$10,000.

NEW YORK CITY.—Architect M. B. Herts, 35 W. 35th St., has filed plans for 1-story moving picture theatre, to be erected on Broadway, near 100th St., for W. E. D. Stokes, Broadway and 74th St.; cost, \$35,000.

Pee Gee Flatkoatt

is an uncommon material for finishing interior walls. It meets every requirement of the architect, practical and artistic, and even offers new possibilities of treatment.

It is very durable, becoming practically a part of the wall itself, and hardening with age. This gives permanency to the architect's work in this as in the other features of the building.

Appropriate to every kind of building, its sanitary character especially commends its use in hospitals.

Easily cleaned—simply washed with water and soap.

Write for further information about Pee Gee Flatkoatt.

Peaslee-Gaulbert Co.

407 West Main St., Louisville, Ky.

Plans have been filed by Architects Jackson & Rosenkrans, 1328 Broadway, for 6-story association building, to be erected on 3d St., for the Y. M. C. A., 215 W. 23d St.; cost, \$200,000.

Architect W. H. Dewar, Jr., Belleville, N. J., has filed plans for 9-story warehouse, to be erected on 4th St., for St. John's Park Realty Co., 149 Broadway; cost, \$455,000.

Plans have been filed by Architects Koppe & Daube, 830 Westchester Ave., for a 1-story brick store, to be erected on Prospect Ave., for Zaeland Realty Co. (M. Lazar, 809 Cauldwell Ave., president); cost, \$30,000.

Architects Koppe & Daube, 830 Westchester Ave., have filed plans for 2-story brick amusement hall, to be erected on Prospect Ave., for Zaeland Realty Co.; cost, \$60,000.

Plans have been filed by Architects Koppe & Daube, 820 Westchester Ave., for a 1-story brick store, to be erected on Prospect Ave., for Zaeland Realty Co.; cost, \$35,000.

NEW YORK CITY.—Architects La Farge & Morris, 25 Madison Sq. North, have filed plans for 2-story brick shop, to be erected at Bronx Park Zoological Gardens, for city of New York; cost, \$23,000.

Plans have been filed by Architects Rouse & Goldstone, 38 W. 32d St., for alterations to two 4-story dwellings on 55th St., for D. Bandler, 42 Broadway; cost, \$10,000.

NEW YORK CITY.—Architect R. T. Lyons, 505 Fifth Ave., has filed plans for 12-story apartment to be erected on Park Ave. for Sutherland Realty Co., 505 Fifth Ave.; cost \$150,000.

Plans have been filed by Architect Anton Pirner, 2066 Blackrock Ave., for six 2-story dwellings to be erected on 217th St. for Edward A. Schill, 860 Van Nest Ave.; cost \$21,000.

Architects Sommerfeld & Stuckler, 31 Union Sq., have filed plans for three 5-story brick apartments to be erected on Jackson Ave., for Robbins Construction Co.; cost \$120,000.

Plans have been filed by Architect J. H. Duncan, 208 Fifth Ave., for alterations to 8-story store and loft on Broadway for estate of Ogden Goelet, 9 W. 17th St.; cost \$20,000.

Architect H. F. Ballantyne, 244 Fifth Ave., has filed plans for alterations to 5-story apartment on 98th St. for Hahnemann Hospital and Hospital Estates, 30 Broad St.; cost \$10,500.

NEW YORK CITY.—Architect H. N. Potter, 35 East 30th St., has filed plans for 6-story office building to be erected on Madison Ave. corner 48th St. for C. Weinberg, 171 W. 71st St.; cost \$80,000.

Plans have been filed by Architect Franz Wolfgang, 535 E. 177th St., for 9-story brick storage house to be erected on Webster Ave., corner of 176th St., for Advance Fire-proof Storage Co.; cost \$100,000.

NEW YORK CITY.—Architect Walter Haefeli is preparing plans for two 9-story apartment houses to be erected on 53rd St., between Park and Lexington Aves. One will be owned by the Acorn Realty Co.

NEW YORK CITY.—Architect E. Roth, 507 5th Ave., has filed plans for 8-story apartment to be erected on 66th St. for Jackson Realty Co., 54 E. 9th St.; cost, \$100,000.

Plans have been filed by Architects Schwartz & Gross, 347 5th Ave., for 12-story apartment to be erected on 87th St. for Owners' Building Co., 43 Cedar St.; cost, \$275,000.

Architect J. C. Bailey, Goldens Bridge, has filed plans for a 2-story brick car facility building to be erected on 161st St. for New York Central & Hudson River Railroad Co., 45th St. and Lexington Ave.; cost, \$12,000.

Plans have been filed by Architect J. O. Westervelt, 36 W. 34th St., for alterations to 3-story store and loft on Broadway, corner of 46th St., for J. M. Mantel and E. Wood, Bordeaux, France; cost, \$10,000.

NIAGARA FALLS.—Halliday & Morden are contemplating the erection of a new apartment house on the property

adjoining fire headquarters in Second St. No plans for the building have been drawn as yet.

George L. Gaiser has purchased property in Main St. and it is said he is planning to erect big garage to cost about \$50,000.

RIVERHEAD, L. I.—Suffolk County, through the adoption of a resolution by the Board of Supervisors, is now taking the preliminary steps incident to establishing a tuberculosis hospital that may cost \$50,000 for establishment and another \$25,000 a year for maintenance.

ROCHESTER.—The directors of the Rochester Labor Temple Association have decided to erect Temple, the following have been appointed a committee to secure plans for the structure, which is to cost about \$100,000: John H. Baker, Bert H. Bates, Orin Hill and Andrew Agren. The building will be erected in North Fitzhugh St. on a site nearly opposite the postoffice.

SCARSDALE.—John T. Kelly, of Kelly & Jones, of Pittsburgh, Pa., has purchased tract of about 4 acres at corner of Cooper Rd. and Murray Hill Rd., and is having plans prepared for erection of house to cost about \$30,000.

NORTH CAROLINA

CHARLOTTE.—Plans are being prepared by W. G. Rogers of the architectural firm of Hook & Rogers for proposed hotel to be erected at Cleveland Springs for John R. Darwin.

DURHAM.—Board of aldermen and county commissioners are considering the erection of a new court house, city prison and police headquarters to cost about \$250,000.

MAXTON.—The Seaboard Air Line and Atlantic Coast Line Railroad companies have submitted to the Corporation Commission detail plans for a \$10,000 union passenger station, to be erected at Maxton.

SALISBURY.—A new hotel is to be built in Salisbury by W. C. Petty, of Charlotte. The hotel will have seventy-four rooms.

OHIO

AKRON.—Architects Harpster & Bliss, Nantucket Bldg., will prepare plans for a 3-story high school building to cost about \$185,000.

AKRON.—Board of Education has invited competitive plans for new high school building and elementary school building. Plans must be submitted at office of Board before noon, Oct. 17.

CINCINNATI.—Charles Schier has contracted with Architects Werner & Adkins for a 2-story store and apartment to be erected on North Sycamore St. at a cost of \$7,000, and the architects are ready for figures.

Architect Anton Rieg, 2554 Vine St., is drawing plans for the Miller Shoe Company, 418 Sycamore St., for an improvement to apartment building at Cook and Spring Grove Aves.

Robertson & Fahnestock, Gerke Building, are making plans for a theater building, to be erected on the north side of Liberty St., east of Baymiller St., for G. W. Hill & Co. It will cost \$10,000.

HAMILTON.—Plans are being prepared for construction of mammoth new plant for the Sanitary Mfg. Co. It will consist of five buildings.

TERRACE PARK.—Plans and specifications are on file at the Builders' and Traders' Exchange for a public school building to be erected at Terrace Park and bids will be received on same until 12 o'clock noon, October 11. Jas. L. Chapman, 915 Second National Bank Building, Cincinnati, is the architect.

OREGON

EUGENE.—Plans for the 6-story bank building for the Eugene Savings & Trust Co. are being prepared by Architect A. H. Gould, of Portland.

An Absolutely Safe Investment Paying 43 Percent

W. N. SHOWERS, President
W. E. SHOWERS, Vice President
W. E. SHOWERS, Manager
S. F. TETER, Secretary and Treasurer



LARGEST AND BEST EQUIPPED
CASE STUDY FACTORY
IN THE WORLD
Indication Center of Population
of the United States.
Census of 1910

Showers Brothers Company

MANUFACTURERS OF POPULAR PRICED
Bedroom and Dining Room Furniture

Bloomington, Ind. June, 5, 1912.

General Fire Extinguisher Co.,

Providence, R. I.

Gentlemen:

It may be of interest to you to know that your Sprinkler System, which has just been completed, is even more satisfactory than we had anticipated.

In the first place, we hesitated over a year in this project, fearing the hindrance to the operation of our plant caused by your installation of the sprinkler system. Our fears were unfounded, as it was no detriment whatever to our production.

We were also not certain that we would receive the very low insurance rates which we understood prevailed on sprinklered risks. In this connection we have merely to say that our saving in insurance premiums alone pays for this system in twenty eight months.

Above all other considerations however remains the fact the horrible nightmare of complete destruction by fire has been removed, which always carries with it the loss of established business, the disruption of factory organization and other things which have taken years to build.

We regard a well installed sprinkler system as one of the strongest guarantees of the permanency of an institution and would not do without it again under any circumstances.

Very respectfully, yours,

SHOWERS BROTHERS COMPANY.

By *S. F. Teter*, Sec.-Treas.

These people are making several thousand dollars a year by being protected from fire. This comes from the large insurance reductions always gained by an installation of

GRINNELL AUTOMATIC SPRINKLERS

The return in this case pays for the system in 28 months. This is a dividend of 43 percent which will be perpetual.—The installation was made without disturbing their business. Perhaps we can do the same for you. We have for thousands of others. It will cost you nothing to find out. Write us today.

GENERAL FIRE EXTINGUISHER COMPANY

PLANTS, WAREHOUSES AND OFFICES
IN ALL PRINCIPAL CITIES

Executive Offices
PROVIDENCE, R. I.

STEAM AND HOT WATER HEATING
AND POWER PIPING SYSTEMS

PENNSYLVANIA

CHARLEROI.—Bids will be received at the office of Andrew P. Cooper, architect, 704 First National Bank Bldg., Uniontown, Pa., until 5 o'clock P. M., on October 9, for the erection of a 14-room brick and terra-cotta school building at Charleroi, Pa., for school district of the Borough of Charleroi.

HARRISBURG.—The building committee of the Harrisburg Aerie No. 122, F. O. E., will meet with all the architects of this city in the rooms of the old home at Sixth and Cumberland to talk over the plans for the new Eagle Home to be built on that site. New Home must not cost more than \$20,000.

HARRISBURG.—Architect Albert Kelsey, Weightman Bldg., of Philadelphia, is preparing plans for alterations to the Bolton Hotel. Twenty-seven new bathrooms and a general modernizing of the interior are contemplated.

A 4-story brick and stone trimmed building will be erected at 6th and Cumberland Sts. if the present plans of the Eagles Home Association are put through. The building committee is conferring with architects. The structure is to cost \$20,000. The committee is composed of George Kobler, M. H. Blough and E. G. Freeland.

PHILADELPHIA.—The old homestead of the Hunter family on the east side of 56th St., has been bought by George W. Bourne. The purchaser will improve the plot by the erection of six stores and dwellings. The operation will require an outlay of \$110,000.

PHILADELPHIA.—Berg Brothers, Market St. department store proprietors, have completed arrangements for the erection of a \$200,000 building at Eleventh and Commerce Sts., which will adjoin their present building at 1007-1027 Market St., in the rear. Work will be begun at once.

PHILADELPHIA.—Martin Molony will erect a 3-story apartment house at the southwest corner of Fifty-ninth and Spruce Sts., to cost \$25,000.

PHILADELPHIA.—The residences No. 2100 to 2104 Arch St., at the corner of 21st, and the two dwellings, Nos. 70 and 72 North 21st St., have been sold to William Henry Maule, who intends erecting there an 8-story concrete and brick seed warehouse, to cost \$100,000.

The Keneseth Israel congregation has purchased the big brownstone residence No. 1715 N. Broad St., which adjoins the synagogue. The residence will shortly be demolished and on the site will be erected a \$50,000 school and hall building, to be occupied by the Alumni Association of the synagogue's religious school.

PITTSBURGH.—Pittston is to have a modern hotel to be erected at a cost of \$125,000. The project is being promoted by the firm of A. J. Barber & Co., of this city. The new hotel will be a 5-story brick building with 75 sleeping rooms and will be situated at the corner of South Main and Market Sts.

SOUTH CAROLINA

AIKEN.—Baptist congregation is considering erection of church edifice to cost \$20,000. Plans are being prepared by Architect G. Lloyd Preacher, Dyer Bldg., Augusta, Ga., and bids for construction will be invited shortly.

BLACKVILLE.—Architect G. Lloyd Preacher, Dyer Bldg., Augusta, Ga., is preparing plans for school building to cost \$20,000. Bids for construction will shortly be called for.

COLUMBIA.—City will erect new jail. Shand & Lafaye, of Columbia, will prepare the plans.

ROCK HILL.—The Baptists of the city have purchased a building site on E. White St. and in the near future will erect a house of worship, costing something like \$30,000. The plans will be drawn at once.

TENNESSEE

NASHVILLE.—The Daughters of the Confederacy have planned erection of a \$50,000 dormitory at the George Peabody College.

TEXAS

AUSTIN.—A thoroughly modern administration building of concrete construction, to cost about \$20,000 and to contain offices of the institution, recitation rooms and laboratories, is to be the newest addition to the equipment of Tillotson College, at Austin, Texas. Dr. Isaac M. Agard is president.

BROWNWOOD.—Postmaster Marshall Smith has been advised to advertise for bids for the erection of the United States postoffice building. Bids are to be received by the supervising architect until October 24, 3 p. m., at which time the contract will be let.

EL PASO.—G. S. Johnson, who owns the property at the corner of Stanton and Boulevard, has been arranging to construct a five-story, fireproof apartment house, to cost \$50,000 when completed.

VIRGINIA

NORFOLK.—Plans are being prepared by Architects Lee & Diehl, Seaboard Bank Bldg., for an 8-story structure to be erected by Alvah H. Martin.

PORTSMOUTH.—Samuel Lasting will erect 3-story structure on the south side of High St. between Green and Effingham. Plans for the building have been drawn by C. A. Roane, of the firm of Stroud & Roane, and it is expected that arrangements for the erection of the building will be made within a short time. Estimated cost \$10,500.

WASHINGTON

ABERDEEN.—Plans and specifications for a county hospital, to cost about \$40,000 have been prepared by Architect C. E. Troutman. A site for the proposed building has been selected between Hoquiam and Aberdeen.

SEATTLE.—The Knights of Columbus will erect a 2-story club building at 722 Union St. The proposed structure will cost \$40,000. Architect F. W. Bohne prepared the plans.

TACOMA.—T. H. Martin, secretary and general manager of the Tacoma Commercial Club and Chamber of Commerce has announced that \$1,000,000 had been raised and a site secured on Pacific Ave., Tacoma, for the erection of a modern hotel. The committee is composed of the following Tacoma business men: W. R. Rust, Charles Richardson, C. B. Hurley, S. A. Perkins, William Vigas, Fred S. Fogg and William Jones.

CANADA

VANCOUVER. B. C.—Architects Braunton & Leibert are preparing plans for a 6-story office and store building to be erected on Main St., between Keefer and Harris Sts., for A. E. Suckling. The proposed structure will cost \$65,000. Bids will be called for shortly.

The B. C. Telephone Co. has just completed purchasing a site foot corner of Yukon and Front Sts., on which a 5-story fireproof structure will be erected to cost \$100,000.

The new police station is to be erected to a height of 5 stories. The city clerk has been instructed to call for bids at once to be considered in about a month's time. Architect Doctor has prepared plans. About \$200,000 is available for the building.

Architect W. M. Somervell, White Bldg., Seattle, has been commissioned to prepare plans for a 10-story building to be erected in the Canadian metropolis by English capitalists. Architect Putnam, formerly of Seattle, but now of Vancouver, is the associate architect in the big project.

WINNIPEG.—The closing date of the architects' competition for plans for proposed city hall has been extended from November 11 until March 1, 1913.

**Quality Is
Economy**

"Harmony In Interior Decoration"

A Booklet that Saves the Architect's Time.

The Architect is a busy man. The Housewife takes an intelligent and deciding interest in the building of her home.

A hundred questions about Finish and Decoration *must* be very carefully answered.

This Booklet, an Authority on the subject, fully answers them.

This Booklet fascinates every Home-Making woman.

It enables her to be the Architect's practical assistant.

With this Booklet in her hands, she sees that the work is done to *his* satisfaction and credit.

Write for as many Booklets as you can use to begin with—free.

**The Varnish
That Lasts
Longest**

Murphy Varnish Company

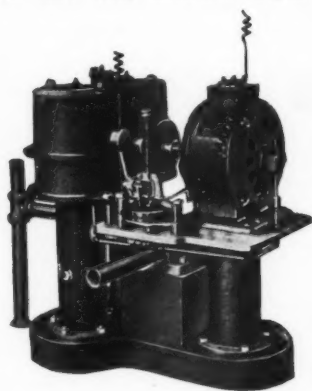
FRANKLIN MURPHY, President
Associated with Dougall Varnish Company, Limited, Montreal, Canada

NEWARK,
N. J.
CHICAGO,
ILL.

IF you get the **AIR** out of your heating plant, you get rid of nearly all trouble. There is no hammering, no cold loops, the steam flows quietly and noiselessly to every part of the radiator instantaneously.

How Can This Be Done?

By simply using the Duplex pump in connection with the air lines. This, of course, is the well known Paul System, which has had the confidence of architects and engineers for twenty years. The Paul System needs no brief. There is no royalty charge for the use of the Paul System. A saving of from 10 to 30% on coal consumption can easily be realized.



This type of vacuum pump is known as the "Duplex," and is equipped with electric motor, noiseless in operation. It has an automatic regulator which operates only when there is air to be removed from the radiators.

Write at once for our New Complete Catalogue of electrically driven Turbine Ejector Pumps, which are used on two pipe Vacuum Systems.

FISCHER-SWEENEY BRONZE CO.

1302-1304-1306 Clinton Street

HOBOKEN, N. J.

Alphabetical List of Advertisers

Ads. marked E. O. W. appear every other week.

Ads. marked O. A. M. appear once a month.

A		L	
Adler, The J., Gilding Co. (o.a.m.)		Lee Marble Works (o.a.m.)	12
American Blower Co.	24	Lehigh Portland Cement Co.	
American Luxfer Prism Co.	2	Loomis-Manning Filter Co.	21
American Mason Safety Tread Co.	20	Lufkin Rule Co.	20
American Radiator Co. (e.o.w.)	64	Lupton's, David, Sons Co.	55
American Sheet & Tin Plate Co. (o.a.m.)	32		
American Steel & Wire Co.	39	M	
Art Metal Construction Co.	27	McCray Refrigerator Co.	34
Artesian Well & Supply Co. (e.o.w.)	20	Maddock's, Thomas, Sons Co. (e.o.w.)	
Associated Builders Catalog Co.		Marsh Valve Co.	
Atlantic Terra Cotta Co. (e.o.w.)	43	Merchant & Evans Co. (e.o.w.)	26
Atlas Portland Cement Co. (e.o.w.)	60	Mississippi Wire Glass Co.	
Automatic Refrigerating Co.		Moss Photo Engraving Co.	25
		Mueller, H., Mfg. Co. (e.o.w.)	35
B		Mullins Co., The W. H.	36
Barrett Mfg. Co.	9	Murphy Varnish Co. (o.a.m.)	17
Bayley & Sons.	39		
Berger Mfg. Co.	27	N	
Best Bros. Keene's Cement Co.		National Fire Proofing Co.	53
Bird, F. W., & Son (o.a.m.)	32	National Lead Co.	21
Bonnel Iris Aggregate, Inc. (o.a.m.)	35	National Roofing Tile Co.	21
Boyle, John, & Co., Inc.	23	National Tube Co.	52
Bradford Pressed Brick Co.		National X-Ray Reflector Co. (e.o.w.)	7
		Never-Split Seat Co.	37
C		New York Architectural Terra Cotta Co.	26
Cabot, Samuel, Inc.	7	New York Belting & Packing Co. (e.o.w.)	
Cahill Iron Works.	25	Norcross Bros. Co., The	
Campbell, Walter M.	19	Northern Pine Mfrs. Assn. (e.o.w.)	24
Carpenter, Geo. B., & Co.	25	Northwestern Expanded Metal Co.	28
Carter White Lead Co.			
Clow, James B., & Sons (e.o.w.)	51	O	
Concealed Transom Lift Co.		Ohio Blower Co.	22
Condron Co.		Okomite Co. (e.o.w.)	57
Corbin, P. & F. (e.o.w.)	41	Otis Elevator Co. (e.o.w.)	
Corrugated Bar Co. (e.o.w.)	31		
Crittall Casement Co.	20	P	
Cudell, F. E. (e.o.w.)	20	Peaslee-Gaulbert Co.	13
Cutler Mail Chute Co.	20	Peerless Rubber Mfg. Co. (o.a.m.)	54
		Pierce, Butler & Pierce Mfg. Co. (e.o.w.)	
D		Pomeroy, S. H., Co., Inc. (o.a.m.)	25
Darby, Edw., & Sons Co. (e.o.w.)		Pratt & Lambert.	20
Decorators Supply Co. (e.o.w.)	20	Prescott, J. B., & Son.	49
Denning Co., The.	46	Pullman Motor Car Co.	36
Derby Desk Co.	23	Puritan Cordage Mills (e.o.w.)	
Detroit Show Case Co. (o.a.m.)	11		
Detroit Steel Products Co.	22	R	
Dexter Bros. Co.	21	Reliance Ball Bearing Door Hanger Co. (o.a.m.)	
Dixon Crucible Co., Jos.	30	Richards-Wilcox Mfg. Co. (e.o.w.)	
Drouvé, G., Co. (e.o.w.)	23	Roebing Construction Co.	23
Dunning, W. D.		Royal Ventilator Co.	58
		Russell & Erwin Mfg. Co.	38
E		Ruud Mfg. Co. (e.o.w.)	
Elevator Supply and Repair Co.	64		
Erkins Studios, The.	21	S	
Estey Organ Co. (e.o.w.)	21	Samson Cordage Works.	64
Eureka Fire Hose Co. (e.o.w.)		Sargent & Company.	45
		Schreiber & Sons Co., The	21
F		Silver Lake Co.	24
Federal Terra Cotta Co. (o.a.m.)	17	Simonds Heating & Specialty Co. (o.a.m.)	21
Fischer-Sweeney Bronze Co.		Society of Beaux-Arts Architects	19
Fiske & Co.	23	Standard Regulator Co.	22
French & Co., Samuel H.		Standard Varnish Works (e.o.w.)	33
		Stanley & Patterson.	44
G		Stanley Works, The (e.o.w.)	
General Electric Co. (e.o.w.)	15	Sturtevant Co., B. F.	50
General Fire Extinguisher Co.	59	Syracuse University.	19
General Fireproofing Co.	29		
Gillis & Geoghegan (e.o.w.)	7	T	
Globe Ventilator Co.	29	Taylor, J. W.	19
Gorham Co.	20	Taylor, N. & G., Co. (o.a.m.)	21
Granger Co., A. D.	21	Thorp Fire Proof Door Co.	38
Great Western Pottery Co.	63	Tiffany Studios.	61-62
Grueby Faience and Tile Co.	21	Trenton Potteries Co.	23
Gurney Heater Mfg. Co.	21	Trussed Concrete Steel Co.	
		Turner Construction Co.	
H			
Hart & Hegeman Mfg. Co., The.	27	U	
Harvard University.	19	U. S. Acoustical Correction Co.	40
Heaton, Butler & Bayne.		U. S. Gypsum Co.	21
Hess Warming & Ventilating Co. (e.o.w.)	28	U. S. Mineral Wool Co.	47
Higgins & Co., Chas. M. (e.o.w.)	28	U. S. Radiator Corporation	19
Holtzer-Cabot Electric Co., The.		University of Illinois.	19
Hunt, Robert W., & Co.		University of Michigan.	19
Hurley Machine Co.		University of Pennsylvania.	19
Hutchings Organ Co.			
I		V	
Imperial Brass Mfg. Co.	22	Vaile & Young.	21
Industrial Engineering.	34	Victor Cleaner Co.	23
J		W	
Jackson, Wm. H., Co. (e.o.w.)	27	Wadsworth, Howland & Co., Inc. (o.a.m.)	26
Jacobson & Co.	26	Warner Co., Charles (o.a.m.)	19
Jenkins Bros.	64	Washington University.	19
Johns-Manville Co., H. W., 29-31-33		Weisz, G. A.	37
Johnson, E. J. (e.o.w.)	23	Western Electric Co. (e.o.w.)	22
Johnson, S. C., & Son.		White Fireproof Construction Co.	22
		Winkle Terra Cotta Co. (o.a.m.)	21
K		Wolfe & Misner (e.o.w.)	
Kahn System of Reinforced Concrete.	61-62	Woodbury Granite Co.	
Kawneer Mfg. Co.	30		
Keasbey & Mattison Co. (e.o.w.)	18	Y	
Kelly Island Lime & Transport Co.		Yellow Pine Mfrs. Ass'n. (e.o.w.)	
Kelly, Thos., & Bros. (e.o.w.)			
Kennedy, David, Inc. (e.o.w.)	24		
Kewanee Boiler Co.	28		
Kimball Co., W. W. (e.o.w.)			



Residence of Dr. S. A. Dunham, Buffalo, N. Y. Roofed with Asbestos "Century" Shingles by J. S. Hausauer, Architect, and Jos. Spang, Contractor—both of Buffalo. Reproduced from an Artist's Drawing.

Asbestos "Century" Shingles

"The Roof that Outlives the Building"

EVERY time a roof breaks down, it is asked of architects, builders, roofers, "What roof do you recommend?"

At this time of year especially, when houses are being put into shape for the Winter and Spring, the question is most pressing.

You will find it worth while in all ways to get the facts about Asbestos "Century" Shingles and pass them along to your clients.

These Shingles are made of cement reinforced with asbestos. They are absolutely fire-proof, weather-proof and time-proof.

PERMANENT. Need no painting or repairs.

Good to recommend—if only for the sake of saving a client annoyance and expense in the least accessible part of his building.

Our nearest branch office will supply you Asbestos "Century" Shingles in numerous shapes and sizes and four colors: Newport Gray (silver gray), Slate (blue black), Indian Red and Veneered Red (red face with gray back).

Write us for trade prices and terms—and Booklet, "Mattison, 1912".

Keasbey & Mattison Co.
Factors
Ambler, Pennsylvania

Branch Offices in Principal Cities of the United States

University of Pennsylvania Courses in Architecture

1. A four-year course, leading to the degree of B.S. in Arch. An option in architectural engineering may be elected.
 2. Graduate courses of one year permitting specialization in design, construction or history; leading to the degree of M.S. in Arch.
 3. A Special two-year course for qualified draftsmen with options in design or construction. Leading to a professional certificate.
- For catalogue giving complete information regarding requirements of admission, advanced standing, summer school and atelier work, fellowships and scholarships, and for illustrated year book, etc., address DEAN OF THE COLLEGE, University of Pennsylvania, Philadelphia, Pa.

Washington University ST. LOUIS, MISSOURI SCHOOL OF ARCHITECTURE

Four-year course in Architecture with degree of B.S. Two-year course in Design with certificate. Course in Architectural Engineering. Special students received. For further information address JOHN BEVERLEY ROBINSON, Professor of Architecture.

COLLEGE OF FINE ARTS SYRACUSE UNIVERSITY Department of Architecture

Four year course in Architecture leading to the degree of B.A. Special two-year course for students who have had two or more years of office experience. For bulletin and information, address Registrar, Syracuse University, Syracuse, N. Y.

A Free Course in Architectural Design

conducted by

The Society of Beaux Arts Architects

Seventeenth Season—Aug. to July, inclusive

The Course is open to draughtsmen and students of architectural schools in any city of the United States or Canada, modeled on the principles of instruction at the Ecole des Beaux Arts in Paris. It consists of thirty-five (35) competitions divided into two classes supplemented by prize competitions, to enter any of which an annual Registration Fee of \$2.00 is required. Address applications for circulars of information and calendars for season 1911-12 to:

William Emerson, Chairman,
Committee on Education,
281 Fifth Avenue, New York City.

University of Michigan

DEPARTMENT OF ARCHITECTURE

Four-year courses in Architecture and Architectural Engineering. Two-year course for special students. For information, address Department of Architecture, University of Michigan, Ann Arbor, Michigan.

Rendering of Perspectives in any Medium

Drawing of Perspectives

G. A. Weisz, 1123 Broadway, N. Y.

Telephone, Madison Sq. 8633

J. W. TAYLOR'S Photograph Series of American Architecture

Harrison 3897

324 Dearborn Street, CHICAGO, ILL.

School of Architecture of Harvard University

Professional course for graduates of colleges leading to degree of Master in Architecture.

Course for special advanced students not having college degree, but at least 21 years of age, with office experience, leading to certificate.

DESIGN. Prof. E. J. A. DUQUESNE,
Grand Prix de Rome.

HISTORY. Prof. H. L. Warren, A.M.,
F.A.I.A.

CONSTRUCTION. Prof. C. W. Killam,
Assoc. M. Am. Soc. C.E.

DRAWING. Mr. H. D. Murphy
Mr. H. B. Warren.

Ten other lecturers and instructors.
For circulars and other information apply to Prof. H. L. Warren, Chairman of the Council of the School of Architecture, Harvard University, Cambridge, Mass.

University of Illinois Department of Architecture

Four-year courses in Architecture and in Architectural Engineering. (Degrees B. S. in Arch. and B. S. in Arch. Eng.) Traveling fellowships limited to Illinois graduates.

Special facilities for graduate work in Design and Construction. (Degrees M. S. in Arch. and M. S. in Arch. Eng.) Scholarships and Fellowships available.

Advanced standing by transfer of credit from other approved institutions.

Illustrated Year Book free on application.
For information address Department of Architecture.

Perspectives Rendered

In Pen and Ink and Water Color

WALTER M. CAMPBELL

8 Beacon Street, BOSTON, MASS.

RATES for Classified Advertising

Positions Wanted, 50 cents for 50 words or less; Help Wanted, Special Notices, Competitions, Proposals, Etc., 20 cents a line, minimum four lines. Copy received until 12 m. Monday. Remittance should accompany copy.

POSITIONS WANTED

GRADUATE ARCHITECT, thirteen years experience, five years draughtsman, five years own practice, three years salaried architect for important urban building, nearing completion, for national corporation; proficient in everything pertaining to architecture; working knowledge of structural engineering, plumbing, heating, wiring; reliable, resourceful executive, accurate draughtsman, seeks employment suiting qualifications. Any location. Address 14C, care American Architect. (1914 & tf.)

EDUCATED as a Civil Engineer and in the Ecole des Beaux Arts and with 20 years' experience in all branches of the profession in the offices of prominent architects and in my own practice, I now desire a position as manager of a department, general manager or confidential right-hand man with a salary in proportion to the responsibility. Address 18C, care American Architect. (1918-19)

YOUNG MAN, ten years' practical experience, technical training, desires position as draftsman with a live, hustling firm where true worth and application will be appreciated. Can furnish best of references from leading architects, principally in New York. Experience covers both small and monumental work, both as to design and construction. Address 18B, care American Architect. (1918-19-20-21)

A RELIABLE REPRESENTATIVE for Boston and vicinity for permanent or occasional commissions can be obtained by addressing H. W. W., P. O. Box 3622, Boston, Mass. (1917-18-19)

ARCHITECTURAL DRAUGHTSMAN, located in New York, desires position with firm of architects in New York City. Working drawings, details, etc. Work on first-class buildings preferred. American and European experience. Address 13C, care American Architect. (1919)

COMPETENT MAN, graduate architect, with ten years' practical experience, chiefly high-class work, is open for permanent connection in or near New York City. Entire charge of office doing good work or of one or more important structures desired. Salary expected, \$40-45. H. B. Burton 1328 Broadway, N. Y. City. (1919)

BEAUX ARTS MAN, strong in design and construction, desires responsible position; experienced head draughtsman; European and American experience; perspective rendering, water color, pen and ink; French; married; 31 years old. Would consider partnership. Address 19C, care of American Architect. (1919-20)

ARCHITECTURAL DRAUGHTSMAN—Have had 5 years in Europe, 5 years in business and 10 years in office work. Qualified for important recognition. Address 19F, care American Architect. (1919)

EXPERIENCED ARCHITECT desires position with architect or construction company as office manager, specification writer or superintendent of construction. Address 19E, care American Architect. (1919)

SUPERINTENDENT of Construction, sixteen years' experience, familiar with all classes of construction, including heating and ventilation; fair draftsman, good estimator and specification writer, executive ability, of good appearance and able to interview clients. At present employed, but desires a change. Will consider any location with architect or builder. Address 19G, care American Architect. (1919-20)

HELP WANTED

ARCHITECTURAL and Ornamental Iron Draughtsman needed constantly; salaries \$18 to \$35 per week. The Engineering Agency, Inc., Monadnock Block, Chicago.

WANTED, an experienced store fixture draughtsman, familiar with scale drawing and full-size detailing, permanent position; state experience. Address 19H, care American Architect. (1919)

ASSOCIATE ARCHITECT must abandon office work account of eyes. Will continue business getting and outside work. Successful practice established twenty years, Central States. Desires associate who can successfully manage office end, architecturally and financially. Splendid opportunity for experienced man to get into business for himself. Address 18A, care American Architect. (1918-19-20-21)

WANTED, capable architectural draughtsman for general working drawings, scale and full size. Must know Gothic as well as Renaissance styles. State experience and salary wanted. Wish also to see examples of draughtsmanship. Address Construction Dept., Board of Education, City Hall, Newark, N. J. (1919)

Seals with or without water.

Put into the White House by the U. S. Government

F. E. CUDELL'S
Patent Sewer-Gas and Backwater Trap

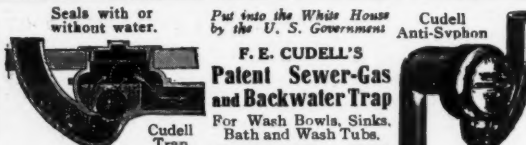
For Wash Bowls, Sinks, Bath and Wash Tubs.

CLEVELAND OHIO

Cudell Anti-Siphon

Cudell Trap

S. & S. I. S. R.



OSWEGO
INTERNALLY FIRED
WATERTUBE BOILERS

Occupy smallest space per horse-power. Self-contained. No brickwork. Maximum efficiency and economy. New bulletin upon request.

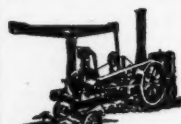
A. D. GRANGER CO.
90 West St. NEW YORK



A DRILLED WELL

Is the ideal source of water supply for country residences. Architects should get in touch with

Artesian Well & Supply Co.
PROVIDENCE, R. I.



MASON SAFETY TREADS

For Stairs, Wood, Iron, Marble or Cement New or Old

HUNDREDS OF THOUSANDS IN USE

American Mason Safety Tread Co., Boston

"61" FLOOR VARNISH

PRATT & LAMBERT VARNISHES

ESTABLISHED 63 YEARS

AMERICAN FACTORIES
BOSTON, CANADA

EUROPEAN FACTORIES
LONDON, PARIS, MANCHESTER



LUFKIN
MEASURING TAPES

For work where accurate measurements are essential. They make good in the severest test.

THE LUFKIN RULE CO. Saginaw, Mich., U.S.A.
New York London, Eng. Windsor, Can.



DEMING POWER PUMPS

Complete Water Supply Systems

THE DEMING COMPANY, Salem, Ohio

HAND AND POWER PUMPS FOR ALL USES

Henion & Hubbell, Chicago, General Western Agents

CUTLER MAIL CHUTES

"The Cheapest Modern Improvement."

CUTLER MAIL CHUTE CO.
ROCHESTER, N. Y.

PATENTED

PROPOSALS

INVITATION FOR PROPOSALS.

Treasury Department, Office of the Supervising Architect, Washington, D. C., September 17, 1912.—Sealed Proposals will be received in this office until 3 o'clock P. M. on the 29th day of October, 1912, and then opened, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and interior lighting fixtures and approaches), of the United States Post Office at Elberton, Ga. The building is one story, basement and mezzanine at both sides, and has a ground area of approximately 3,600 square feet, nonfireproof construction, stone, brick, and stucco facing, terra-cotta cornice, and tin roof. Drawings and specifications may be obtained from the custodian of site at Elberton, Ga., or at this office, at the discretion of the Supervising Architect.

OSCAR WENDEROTH, Supervising Architect.
(1918-19)

INVITATION FOR PROPOSALS.

Treasury Department, Office of the Supervising Architect, Washington, D. C., September 18, 1912.—Sealed Proposals will be received in this office until 3 o'clock P. M. on the 30th day of October, 1912, and then opened, for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring, interior lighting fixtures and approaches), of the United States Post Office and Courthouse at Vicksburg, Miss.

The work contemplated is the construction of a 3-story basement and unfinished attic extension of approximately 8,400 square feet ground area. The first floor only is fireproof construction, exterior facing of stone and brick with slate and tin roof, and there will be certain repairs and alterations in the present building.

Drawings and specifications may be obtained from the custodian of the building at Vicksburg, Miss., or at this office at the direction of the Supervising Architect.

OSCAR WENDEROTH, Supervising Architect.
(1918-19)

Treasury Department, Office of the Supervising Architect, Washington, D. C., September 20, 1912.—Sealed Proposals will be received at this office until 3 o'clock P. M. on the 18th day of October, 1912, and then opened, for an airlift pumping plant at the United States Post Office and Court House at

London, Ky., in accordance with the specification and drawing, copies of which may be obtained from the Custodian at London, Ky., or at this office, at the discretion of the Supervising Architect.

OSCAR WENDEROTH, Supervising Architect.
(1919-20)

INVITATION FOR PROPOSALS.

Treasury Department, Office of the Supervising Architect, Washington, D. C., September 26, 1912.—Sealed Proposals will be received at this office until 3 o'clock P. M. on the 17th day of October, 1912, and then opened, for an electric passenger elevator and an hydraulic freight lift in the extension to the United States Post Office and Courthouse, Wilmington, Del., in accordance with the drawing and specification, copies of which may be obtained at this office at the discretion of the Supervising Architect.

O. WENDEROTH, Supervising Architect.
(1919-20)

Italian Architecture Interiors and Furniture

During the 14th, 15th, 16th and 17th centuries. By Camillo Salvatore. Contains 66 large photographic plates of beautifully furnished interiors, of decoration, brickwork, landscape architecture, etc. Price, \$25.00.

THE AMERICAN ARCHITECT
50 UNION SQUARE, NEW YORK

DIXON'S SILICA-GRAPHITE PAINT**The Most Tenacious Protector**

for all structural steel or other metal work. Eminent architects and engineers all over the world have specified its use on buildings, bridges, etc., because they knew its value. Made in ONE GRADE only. Our Paint Department will cheerfully send long service records and appropriate paint literature, if requested.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

**Dutch Boy Painter Specification**

Copies sent free to any architect writing to our nearest branch. This specification covers all forms of painting.

NATIONAL LEAD COMPANY

New York Boston Buffalo Chicago
Cincinnati Cleveland St. Louis San Francisco
(John T. Lewis & Bros. Co., Philadelphia)
(National Lead & Oil Co., Pittsburgh)

This is the age of making *one* thing better than anyone else.

The SIMONDS VACUUM VALVE

has Superior Qualities that are Distinct Advantages over other kinds. *Investigate.*

THE SIMONDS HEATING AND SPECIALTY CO., Grand Rapids, Michigan

GURNEY HEATERS

FOR
STEAM AND
HOT WATER



GIVE
COMPLETE
SATISFACTION

N.Y. BRANCH
12 EAST 42ND ST.
NEW YORK

GURNEY HEATER MFG. COMPANY
BOSTON, MASS.

HQ. OFFICE
189-200 FRANKLIN ST.
BOSTON

**RICHARDSON
FIREPROOF DOORS**

See our full page advertisement in this paper last week or next, or write to

THORP FIREPROOF DOOR CO. : : : : : MINNEAPOLIS

TO BE SATISFACTORY

A Roof must, first of all, be weather-proof. That goes without saying. Tile, Slate or any other material not meeting this requirement is a failure.

National Interlocking Roofing Tile

is absolutely weather-proof when properly laid and does not depend on the underlying felt.

American architects, contractors and prospective builders are invited to write us for Catalogues, Samples and Prices on Natural Reds and Green Glazes.

The National Roofing Tile Co., Lima, Ohio

EXPULSO DEVORO

Ejector

WAVELINE

The Great Western Pottery Co., Tiffin, O. Kokomo, Ind.

These Trade Marks on any Water Closet Bowl or Tank are a guarantee of quality.

Mineral Wool

FIRE, SOUND and VERMIN PROOF **INSULATOR**
SAMPLES AND CIRCULARS FREE

U. S. MINERAL WOOL CO., NEW YORK 140 Cedar St.

**VAILE & YOUNG'S
Patent Metallic Skylights**

Without Putty
Construction adapted to all forms and styles of Skylights.

Thousands of feet in use have proved its superiority. Particularly adapted for Depots, Mills, Factories, etc., where large and continuous lights are required. Send for Illustrated Catalogue.

214 N. Calvert St., Baltimore, Md.

LOOMIS FILTERS

Improved System Established 1880 Simple and Effective
LOOMIS-MANNING DISTRIBUTING FILTER CO.

Main Office:
828 Land Title Building, Broad and Chestnut Streets, Philadelphia
Boston Buffalo New York Baltimore Washington Chicago

L. WOLFF M'F'G CO.

Plumbing Goods Exclusively

TRENTON CHICAGO DENVER

See Our Full Page Advertisement in Next Issue

Garden Furniture

Our new catalogue (Architects' Edition) is just off the press. We will be very glad to mail you one.

Kindly address

THE ERKINS STUDIOS

The largest manufacturers of Ornamental Stone

229 Lexington Avenue, New York. Factory, Astoria, L. I.
New York Selling Agents, Ricceri Florentine Terra Cotta.

• THE L. SCHREIBER & SONS CO. •

STRUCTURAL STEEL CINCINNATI ORNAMENTAL IRON

BRANCH OFFICES NEW YORK • CHICAGO • PITTSBURG • ATLANTA • NEW ORLEANS • SAN FRANCISCO • RICHMOND

**ESTEY ORGAN
COMPANY**

BRATTLEBORO, . . . VT.

Builders of Organs for churches and private residences.

SPECIFICATIONS, ETC., FURNISHED ON APPLICATION.



Hartwell, Richardson & Driver, Architects,
Boston, Mass.



DEXTER BROTHERS PETRIFAX CEMENT COATING

Applied to brick, cement, concrete or stucco walls produces a uniformity of color and water-proofs them against rain moisture. Interior walls finished with PETRIFAX and PETRIFAX ENAMEL are sanitary and easily washed. Let us send samples and catalogue.

Dexter Brothers Co., 120 Broad St., Boston, Mass., Branch Offices
1133 B'way, N. Y., 218 Race St., Philadelphia,
Makers of Dexter Brothers English Shingle Stains

Agents—H. M. Hooker Co., Chicago. Sherman
Kimball, San Francisco, California. F. S. Combs,
Halifax, N. S. E. B. Totten, Security Bldg., St.
Louis, Mo. Hoffschlaeger Co., Ltd. Honolulu,
AND DEALERS.

Be
sure
our
name
is
on
every
package.



The Comfort and Satisfaction of Your Client are Assured when You Specify

THE STANDARD SYSTEM

of Automatic Temperature and Humidity Control

HOT WATER
CONTROL

DRY ROOM
CONTROL

DAMPER
CONTROL

PRESSURE
CONTROL

THREE-WAY SWITCH
CONTROL

STANDARD REGULATOR COMPANY

NEW YORK—PHILADELPHIA

The Winkle Terra Cotta Company

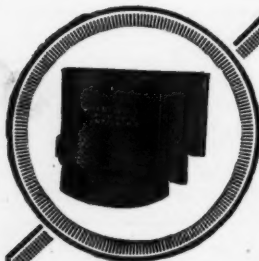
MANUFACTURERS OF

ARCHITECTURAL TERRA COTTA

In All Colors

Office: Rooms 502 and 503, Century Building
ST. LOUIS, MO.

Works: Cheltenham, St. Louis



Ask for
Booklet 152.

What Architect would
neglect the question of
SANITATION?

Of equal importance is
an unlimited supply of
FRESH AIR.

Provide for it with

SWARTWOUT
Rotary Ball Bearing
VENTILATORS

"MOST AIR FOR THE MONEY"

THE OHIO BLOWER CO.

5123 Perkins Ave., N. E.

CLEVELAND, O.

V-4

It Will Pay You to Investigate the

INGHAM SHOWER MIXER

Maximum Comfort, Safety and Economy. Write for free
illustrated descriptive booklet "A Good Mixer."

IMPERIAL BRASS MANUFACTURING COMPANY
Dept. 174, 1222 W. Harrison Street, Chicago

ESTIMATING

By Edward Nichols. Containing invaluable information for the
use of Architects, Contractors, Builders and others interested in
building, heating, roofs, cornices, etc. This handbook tells how
to go about the task of making an estimate intelligently. 140
pages, 35 illustrations. Cloth binding. Price, \$1.00.

Book Department, THE AMERICAN ARCHITECT
50 Union Square, New York City



Before You Specify Get this Free Book

You will find it a big help in all kinds of Wood finishing. Tells quantity of materials needed, etc.—how to do best work with least time and cost and most satisfaction.

Johnson's Wood Dye

Made in 15 Shades

is a soft, handsome finish, unequaled for durable, artistic effects. Sinks deep into the grain and firmly sets the desired shade. Your local dealer probably has samples of the Dye—our Prepared Wax, and other Finishings. But if necessary, we will send them—free. Ask for Book No. AT-10.
S. C. JOHNSON & SON Racine, Wis.
"The Wood Finishing Authorities"

It Will Exhaust More Air
THAN ANY OTHER VENTILATOR MADE

ABSOLUTELY STORM PROOF Are You
Drawing Plans?
Then Specify
The Royal Ventilator

The One Best Ventilator
For office buildings, mills,
factories, hospitals, schools,
churches, power houses, etc.
Made in every size and shape
and to suit every condition.
"Ventilation by The Royal System"
Mailed on request. Write for it today

ROYAL VENTILATOR CO., 414 Locust Street
PHILADELPHIA, PA.

TURNER Construction Company

11 Broadway, New York City

and

312 Prudential Bldg.,

Buffalo, N. Y.

Reinforced Concrete Contractors and Engineers

FRENCH'S "Quality First" PEERLESS MORTAR COLORS BRIGHTEST—STRONGEST—UNFADING

The original and standard colors for coloring Interior and Exterior Mortars. Peerless Mortar Colors are ground in pulp form and can be worked into the mortar in much less time than dry colors.

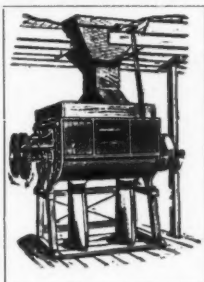
Write for color card and prices.

Manufactured only by

SAMUEL H. FRENCH & CO.

Established 1844

PHILADELPHIA, PA.



The Broughton Mixer

Direct Discharge Especially for
PULP PLASTER, PATENT
FLOORING, PAINTS, ETC.

ASK FOR CATALOGUE

WILLIAM D. DUNNING

231 WEST WATER STREET
SYRACUSE, N. Y.

VACUUM CLEANERS Broomell's Victor

ELECTRIC STATIONARY

For All Kinds of Buildings

ELECTRIC PORTABLE

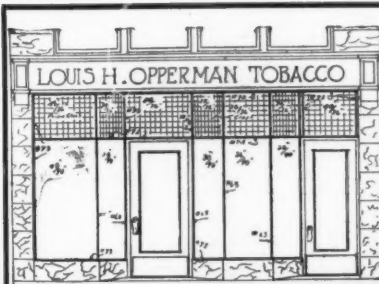
Weight 55 Pounds

COUNTRY HOMES SPECIAL

for Use with Gasoline Engine

VICTOR CLEANER CO., YORK, PA.

Manufacturers



FRONT ELEVATION.

You will be pleased to get our valuable booklet on "Metal Store Front Construction." A copy is waiting to send at your request.

DETROIT SHOW CASE CO., SOLE MAKERS
482 FORT STREET WEST DETROIT, MICH.

Everybody is Satisfied

when Pets Bars are specified for that modern store front. The owner is pleased because the appearance is beautiful, his window display is perfect and well-lighted, and the ventilation is all that can be wished for. The architect and builders are pleased because Pets Bars are staunch and strong, easy to install and were never known to break glass.

when specified for that modern store front. The owner is pleased because the appearance is beautiful, his window display is perfect and well-lighted, and the ventilation is all that can be wished for. The architect and builders are pleased because Pets Bars are staunch and strong, easy to install and were never known to break glass.

CANVAS ROOFING

**BAYONNE
ROOF AND DECK
CLOTH**

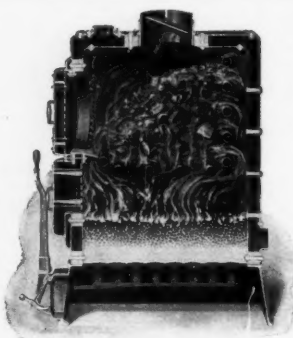
To satisfy you of its wearing qualities we will send you enough to cover a busy spot in your office.

Paint It Once—Only Once!

JOHN BOYLE & CO., INC.

112-114 Duane Street NEW YORK 70-72 Reade Street
202-204 Market Street, ST. LOUIS

"50 years' experience back of it"



The KEWANEE Garbage Burner and Water Heater

Burns the Garbage and Heats the Water. It doesn't Cook the one and Warm the other. For years it has shown higher efficiency than was ever looked for.

It reduces fuel bills 30 to 40 per cent;

It eliminates foul odors and disease carrying rats;

It puts the filthy garbage can out of commission;

It raises the tank temperature 120 degrees;

It supplies plenty of HOT water for 2 to 4 cents per day per family;

The Garbage Chamber cannot be "Clogged."

The basement is clean and neat. All old papers, boxes, barrels and other rubbish go up the chimney. The risk of fires is greatly reduced. Insurance rates come down. The very dangerous garbage originating in Hospitals and Medical Colleges makes the "Kewanee" indispensable. Architects having the interests of their clients at heart will always specify the "Kewanee."

Write for specifications at once.

KEWANEE BOILER COMPANY, KEWANEE, ILL.

Chicago

New York

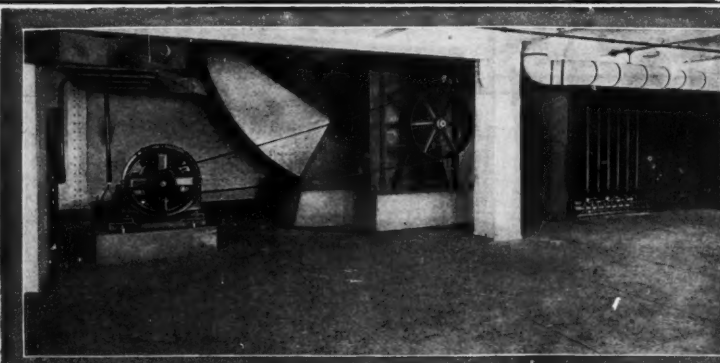
St. Louis

Kansas City

Salt Lake City

Los Angeles

Sold in Canada by the Dominion Radiator Co. exclusively.



"Sirocco"
TRADE MARK

Heating and Ventilating Fans

Save power, space and also weight
And make the old types out of date.

Ask for descriptive bulletin No. 340-A.

AMERICAN BLOWER COMPANY
DETROIT, MICH.
U. S. A.

Canadian Sirocco Company, Limited, Windsor,
Ontario, Manufacturers for Canada.

Don't get
"Skin-deep"
quality



SILVER LAKE Sash Cord

When it comes to
the point of Selection

The name Silver Lake A stamped
on every foot of the cord guarantees the genuine-
ness as the original solid braided sash cord that will
outwear other cords, chains or ribbons.

SILVER LAKE COMPANY
BOSTON



Econo Steel Reinforcing

DISTRIBUTES THE LIVE LOAD
IN ALL DIRECTIONS EQUALLY

Send for Booklet 111, for further reasons why
Econo dominates.

North Western Expanded Metal Co.
911 Old Colony Bldg., Chicago

Principles and Practice of Plumbing

By J. J. COSGROVE

Of great value to the Architect, as an exact and
systematic statement of the underlying principles
in Plumbing Practice. 278 pages, 169 original
illustrations, 69 tables. Price \$3.00.

Well worth your serious consideration.

BOOK DEPARTMENT
THE AMERICAN ARCHITECT
50 Union Square, New York

HERE IS ONE DESIGN— WE HAVE OTHERS

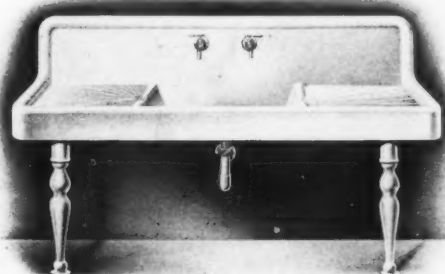


Plate G-200 (Patented) "Tennessee" Sink

Our line of Tennessee Sinks, with back, apron and drain boards cast integral, includes eleven different designs and nineteen sizes. The most complete line made.

The Cahill Iron Works, Chattanooga, Tenn.

New York Office and Display Rooms, 1161 Broadway, Thos. H. Hutchinson, Manager. Philadelphia Office, 5604 N. 4th St., Russell D. Knight, Sales Agent. Portland Office and Warehouse, 550 Sherlock Bldg., H. A. Heppner & Co., Sales Agents. San Francisco Office and Display Rooms, 1749 Sacramento St., C. H. Stanyan, Sales Agent. Havana, Cuba, Office, San Ignacio No. 50, Cagigas & Quesada, Sales Agents.

VOIGTMANN

HOLLOW METAL FIREPROOF WINDOWS

tested and approved by the
National Board of Fire
Underwriters Laboratories.



Manufactured by

S. H. POMEROY CO., Inc.

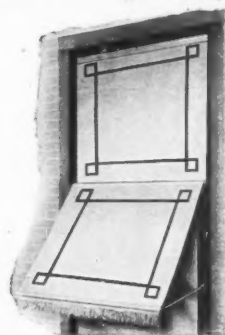
Successors to

VOIGTMANN & CO. OF NEW YORK

427 W. 13th St., New York City

CUTS
USED IN THIS
PUBLICATION
ARE MADE
by the
MOSS
PHOTO
ENGRAVING CO.
PVCK BUILDING
295-309 LAFAYETTE ST. COR. HOUSTON
NEW YORK
TELEPHONE 81 SPRING
ESTABLISHED 1871

It Works from the Inside THE Carpenter Spring Shade



For

Residence, Office, Factory or Public Building.
*Easier to Operate and Cheaper to Maintain than
the Old Style Awning*

You can operate your "Spring Shade" from the inside of the room, without raising your window or your screen. Fully extended the "Spring Shade" gives the maximum protection from the sun—rolled up, it is practically invisible. Ask your Awning Maker or your House Furnisher about the "Spring Shade" and also send for one of our illustrated "Spring Shade" booklets giving further information.

GEO. B. CARPENTER & CO

430-440 Wells Street

CHICAGO

HIGHEST EFFICIENCY OBTAINED

By use of Model "B"

"STAR" Fire Retarding VENTILATORS

(Patented and Trade Marked)



They combine skylight, quick exhaust with an automatic damper controlled by fusible link. In event of fire, link parts and damper closes by gravity, stopping all draft but not affecting the light.



MERCHANT & EVANS CO.

(The Premier Metal House in America)
Sole Manufacturers. Also High-Grade
Roofing and Bright Tin Plate.

PHILADELPHIA

NEW YORK	BROOKLYN	CHICAGO
BALTIMORE	WHEELING	CLEVELAND
KANSAS CITY	DENVER	

Terra-Cotta In Architecture

Possibilities.



Other building material has the possibilities of New York Architectural Terra-Cotta. We make terra-cotta in any shape, from a single block to an elaborate gargoyle. We make terra-cotta in the widest range of colors for all kinds of buildings, from the factory to the exclusive hotel. Whatever your requirements and demands, we can make satisfactory terra-cotta for you.

**New York
Architectural Terra-Cotta
Company**

Two twenty-five Fifth Avenue
New York

NAZARETH CEMENT

has consistently passed the Autoclave or high pressure boiling test. This is the most rigid and exacting test yet devised to determine the soundness of Portland Cement.



Be sure to specify Nazareth next time.

For further information regarding the test or the cement call or write any of our offices.

Charles Warner Company

Sole Sales Agent

Wilmington Philadelphia New York Boston



JACOBSON AND COMPANY

call the attention of Architects to their Chimney Pieces made of cement in the imitation of all stones and after authentic designs, ancient and modern. These mantels have become quite the vogue and are replacing other materials. They are comparatively inexpensive, fireproof and representative of the highest grade of the reproductive art.

Catalogues are published, and will be sent on application to architects.

JACOBSON AND COMPANY

241 East 44th Street, New York City, U. S. A.



Quickly Erected Fireproof Construction
for hospitals, apartment buildings, residences, etc.

Berger's Metal Lumber

has proven not only a fireproofing in every sense of the word, but a construction that can be erected without delay. In fact, it can be assembled in less time than are frame or concrete buildings. The cost of pressed steel joists and studs is practically the same as the cost of wood, its superior advantages making steel much more preferable.

Have you our complete catalog of information and illustrations? If not, drop us a line today as it will prove the most valuable 1912 addition to your file.

THE BERGER MFG. CO., Canton, Ohio.

For prompt shipment address nearest branch.

New York Minneapolis San Francisco Boston
St. Louis Philadelphia

Also manufacturers of Prong Lock Studs and Furring, Rib-Truss, Ferro-Lithic and Multiplex Reinforcing Plates, Metal Ceilings, Expanded Metal Lath, Sidewalk Forms, Raydiant Sidewalk Lights, etc.

You Can Depend Upon H & H Switches

Because an H & H Switch, when installed, has an easy, smooth action, makes little noise, is strong and lasting, and will give good service to your client for a number of years.

Because of the many thousand snaps to which a switch is subjected in service, it must be accurately assembled to withstand this hard wear.



They Are Durable

We have manufactured H & H Switches for twenty-one years.

Each separate part that enters into one of our switches is carefully inspected and gauged.

Each switch is put together with care, and every individual push button switch is tested before being shipped.

If a switch breaks down, the householder, being much inconvenienced, is naturally displeased and is apt to condemn the whole electrical installation as inferior.

For this reason, it is to the architect's best interest to specify for his client a switch that he knows to be strong and durable.

The Hart & Hegeman Mfg. Co.
344 Capitol Ave., Hartford, Conn.



Wm. H. Jackson Company

**MARBLE MANTELS,
WOOD MANTELS,
ANDIRONS, TILES,
ORNAMENTAL IRON AND
BRONZE WORK
ARTISANS IN ALL METALS**

2 West 47th Street NEW YORK CITY
902 South Michigan Boulevard, CHICAGO



**2-Story Stack
State Library
Hartford,
Conn.**

Fireproof Library Interiors

are possible without sacrificing beauty of design or ornamental effect. The State Library at Hartford, Conn., is a splendid example. Critics pronounce it a distinct achievement. Book stacks, galleries, wainscoting and all interior trim is

Art Metal Steel and Bronze

Architects are invited to make use of our highly specialized experience and unequalled manufacturing facilities.

We operate the largest and best-equipped Metal Furniture plant in the world.

Art Metal Construction Company

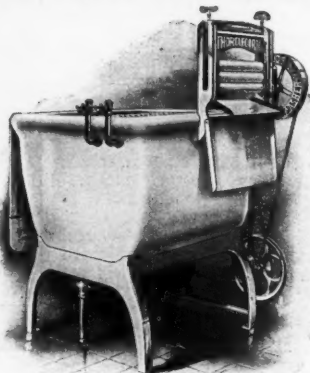
Jamestown, N. Y.

BRANCHES: New York, Chicago, Philadelphia, Boston, Washington, Baltimore, St. Louis, Pittsburgh, Kansas City.

Our New Catalogs

are just off the press. Handsomely illustrated. Four books: "Libraries," "Banks," "Public Buildings," "Commercial and Ins. Offices." Send for books wanted.

Thor Electric Home Laundry Machines



FOR PERMANENT INSTALLATION
In Private Homes, Apartment Buildings, Hotels,
Hospitals and Institutions of all kinds

Bodies made in Solid Porcelain, Cast Iron White Enam-
eled, Copper, Zinc or Galvanized Steel, and in various
sizes. Operates from the regular electric light current.
No expensive installation. Height adapted to work with
any standard laundry tub.

Write for Free Catalogue A showing designs of modern laundry
rooms and equipment

HURLEY MACHINE COMPANY

31 SOUTH CLINTON ST., CHICAGO

New York, 1009 Flatiron Bldg. Los Angeles, 3d and Main Sts.

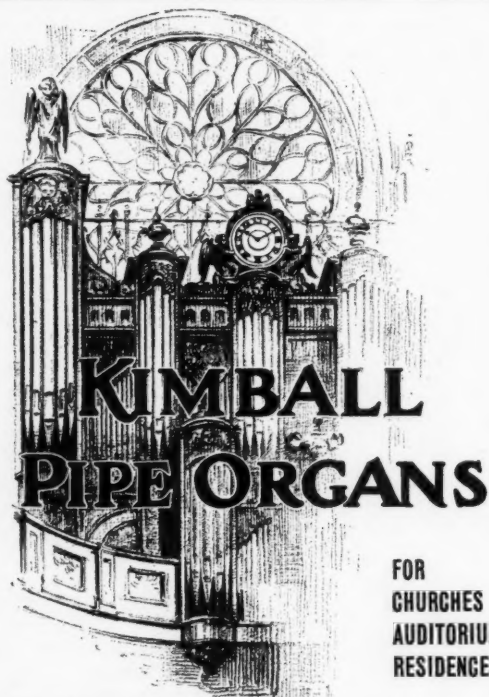
THE NORTHWESTERN TERRA COTTA CO CHICAGO

Works Established
1878

Main Office & Works
2525 Clybourn Ave
Chicago, Illinois

MANUFACTURES
THE HIGHEST GRADES
IN STANDARD
GRANITE
ENAMEL
POLYCHROME
AND
FAIENCE

The Architectural
and Color possibilities
of Terra Cotta, with its
other virtues
of Durability
and Fire
Resisting
Efficiency
places it in ad-
vance of all other
Building Material



**KIMBALL
PIPE ORGANS**

FOR
CHURCHES
AUDITORIUMS
RESIDENCES

Every phase of organ building is given most careful con-
sideration. Inquiries from architects regarding space or plans
receive prompt attention. Catalogs sent on request.

W. W. KIMBALL CO., Pipe Organ Builders
150 Fifth Ave. 300-310 So. Wabash Ave.
New York Chicago
Established 1857

Holtzer-Cabot

**Hospital
Signal Systems**

are
**NOISELESS
EFFICIENT
and
RELIABLE**

They insure
prompt atten-
tion to Hurry
Calls.



No Relays Required—This Means
SIMPLICITY.

No High Voltage—This Means
SAFETY.

Send for New Catalog A16

The Holtzer-Cabot Elec. Co.

Chicago, Ill.

Brookline, Mass.



Hoist Lowered



Hoist in Operation

G. & G. ASH-HOIST

(PATENTED)

With Compound Gear and Brake Attachment—Made of strong and durable material

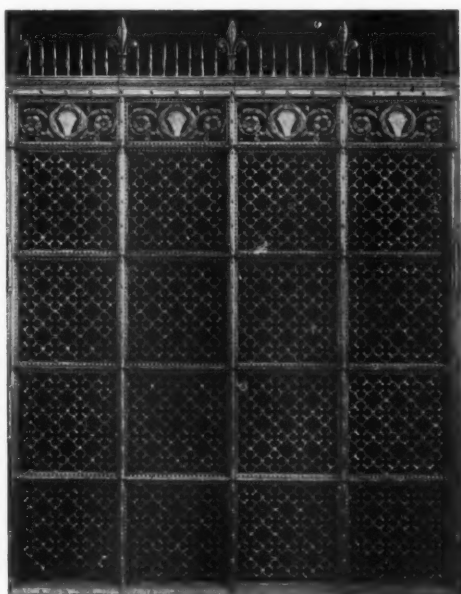
Simple, safe and absolutely rigid when erected.
Takes up less room than other ash hoists; the opening in the sidewalk need be no larger than necessary to permit passage of can.
It is adjustable—no part showing above sidewalk when not in use.
A brake attachment permits the lowering of heavy load without trouble.

Furnished complete ready for use with any style ash can.

Specified by the leading architects

Price, erected complete, New York City, \$125.

Gillis & Geoghegan, 545 W. Broadway, New York



VESTIBULE GATES
Central Library Building, St. Louis, Mo.
CASS GILBERT, Architect



THE CORHAM CO ARCHITECTURAL BRONZE,
FIFTH AVENUE NEW YORK

The Only Stucco That Dries an Artistic, Permanent Gray-White Color



Residence of W. T. Hyde, Cooperstown, N. Y., covered with J-M Asbestos Stucco. Frank P. Whiting, Architect, New York.

J-M Asbestos Stucco is the *only* stucco that dries a gray-white color, which is so desirable for artistic homes, and that always remains that shade. This is because it is positively the *only* stucco that contains *no* sand.

The base of all other stuccos is sand. And due to the iron and other foreign substances in the sand, such stuccos dry out a dirty, dismal color and also become stained and spotted.

J-M Asbestos Stucco

is composed of tough asbestos fibres and finely ground asbestos rock. The fibres take the place of hair used in other stuccos, and the ground asbestos rock takes the place of sand. This, when combined with Portland Cement, produces a stucco that can be applied in a large variety of finishes and texture effects.

It is absolutely fire-proof and a most efficient non-conductor of heat and cold.

J-M Asbestos Stucco is lighter in weight than most stuccos, and covers a greater area per ton.

Write our nearest Branch for illustrated, descriptive booklet.

H. W. JOHNS-MANVILLE CO.

Manufacturers of
Asbestos and Magnesia
Products

ASBESTOS

Asbestos Roofings,
Packings, Electrical
Supplies, Etc.

Albany	Cleveland	Louisville	Philadelphia
Baltimore	Dallas	Milwaukee	Pittsburgh
Boston	Detroit	Minneapolis	San Francisco
Buffalo	Indianapolis	New Orleans	Seattle
Chicago	Kansas City	New York	St. Louis
Cincinnati	Los Angeles	Omaha	Syracuse

For Canada:—THE CANADIAN 177

H. W. JOHNS-MANVILLE CO., LIMITED.

Toronto Montreal Winnipeg Vancouver



(The old Front is a good partition—keeps out the cold and part of the rain, but how much business does it create?)

YOU ANSWER

Which front would you prefer to represent your work?

You strive to construct your business buildings so as to be efficient, to be permanent, and minimize the up-keep cost. You strive to install Store Fronts that will make the greatest interest on the amount invested—Store Fronts that will Pull Business for the merchant behind.



(This KAWNEER Front is also a good partition and in addition will create more business in one week than will the opposite Front in 52 weeks.)

We have made a thorough study of Modern Store Fronts, from your standpoint as well as that of the owner and tenant. When we install a KAWNEER Front in a business building you may rest assured that more real value for the money spent has been placed in the building than could be accomplished in any other way. A KAWNEER Store Front will show bigger returns on the amount invested

Kawneer
STORE FRONTS

than any other material that enters the building.

We have printed a book (No. 3) about KAWNEER Store Fronts, giving information that will interest you. It contains photographs of many of the finest Store Fronts in the country, both large and small, and the suggestions offered will appeal to you.

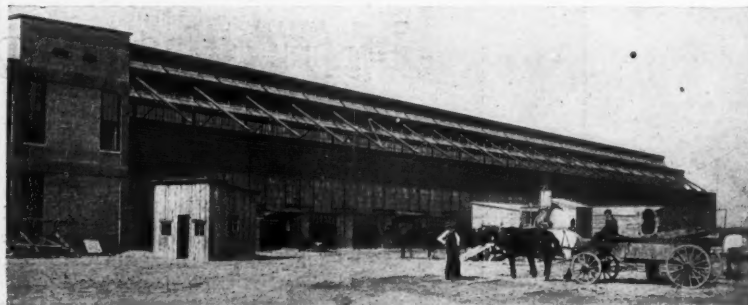
Just drop a card saying, "Send Booklet No. 3."

KAWNEER MANUFACTURING CO.

Branches in all principal cities

Francis J. Plym, President
NILES, MICHIGAN

FACTORIES:
Niles, Michigan
Toronto, Ontario, Can.
San Francisco, Cal.



Forge Shop, Packard Motor Car Co., Detroit, Mich. Mr. Albert Kahn, Architect; Mr. Ernest Wilby, Associate

Straight-Push Sash Operators

insure sash opening evenly and easily, with a few pulls of chains, and locking tightly, when closed. Sash are firmly held against wind pressure at the different angles. Economy—better ventilation results.

Blueprints and full details on request

The
G. Drouvé Company
Bridgeport, Conn.
180 N. Dearborn St., Chicago



Forge Shop, Billings and Spencer Co. Messrs. Ford, Buck & Sheldon, Architects and Engineers

Forge Shops require Regulated Ventilation

The "Straight-Push" Sash Operator was used in both instances, handling lines of pivoted sash in lengths of 100 to 200 linear feet.

Frink Church Reflectors and Fixtures

For over FIFTY YEARS we have given expert attention to the manufacture and installation of reflectors and lighting fixtures for churches. We design fixtures for the main auditoriums and for every other place where light is necessary—pulpit, chancel, class-room, parlor, etc. We have recently brought out a series of reflecting chandeliers for Tungsten lamps which are particularly acceptable for this class of work.

On receipt of necessary data our Engineering Department is prepared to submit sketches of fixtures in harmony with the architectural arrangements of a church. We shall be glad to refer you to hundreds of churches which have adopted the FRINK System of Lighting.

Write our nearest Branch.

H. W. JOHNS-MANVILLE CO.

Sole Selling Agents for Frink Products

MANUFACTURERS OF ASBESTOS
AND MAGNESIA PRODUCTS

ASBESTOS

Albany
Baltimore
Boston
Buffalo

Chicago
Cincinnati
Cleveland
Dallas

Detroit
Indianapolis
Kansas City
Los Angeles

Louisville
Milwaukee
Minneapolis
New Orleans

New York
Omaha
Philadelphia
Pittsburgh

San Francisco
Seattle
St. Louis
Syracuse

Toronto, Ont.

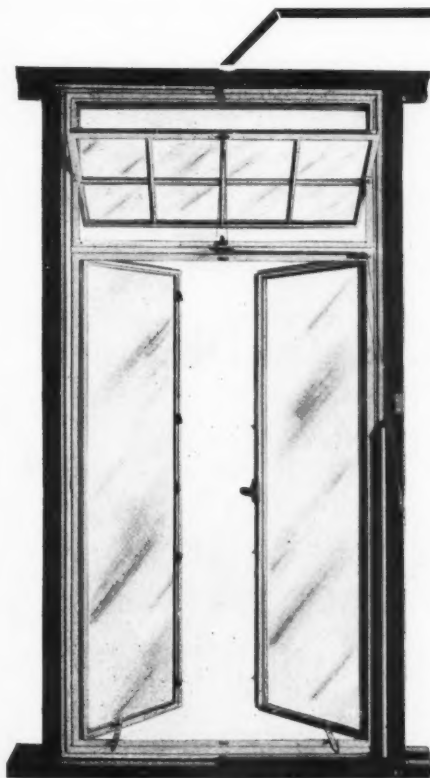
For Canada:—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED
Montreal, Que. Winnipeg, Man.

ASBESTOS ROOFINGS, PACKINGS,
ELECTRICAL SUPPLIES, ETC.

Vancouver, B. C.
1728



*Cathedral St. Peter and St. Paul,
Providence, R. I.*



CRITTALL Solid Steel Casement Windows

For Residences, Office Buildings, Bank Buildings, Clubs,
Public Buildings, Churches, Schools, Hospitals, Etc.

Crittall Solid Steel Casement Windows represent thirty years' experience in the business of solid steel window manufacture with the refinements in workmanship, finish and design that a life-time study of the industry has developed.

The patronage accorded the makers by Architects and Engineers is the result of unrelaxing effort in maintaining the high standard of excellence for which the Crittall Casement Window is known.

The Crittall Casement is a superior window designed and built for important construction. All types and sizes.

Get particulars of our "Economic" solid steel open-out casement window for residence construction. Better in every way than the wood casement and costs little, if any, more.

Crittall Casement Company Detroit



Residence of J. A. Burnham, Wenham, Mass. Winslow & Bigelow, Architects.
NEPONSET Waterproof Building Paper Used.

NEPONSET Black Waterproof Building Paper

THE BEST INSULATING PAPER FOR ECONOMY AND COMFORT.



Branch Offices:

New York
 Washington, D. C.
 Columbus, Ohio

F. W. Bird & Son, East Walpole, Mass.

Established 1795

Canadian Plant, Hamilton, Ontario

Branch Offices:

Chicago, Ill.
 Portland, Ore.
 San Francisco, Cal.



BE PROGRESSIVE

Retain the old that is *good*—adopt the new
 which is *better*.

OUR ROOFING TIN

is coated in the good old way, because no better way has been found.

Our Copper Bearing Open Hearth Steel Base
 is the result of modern scientific research.

This combination makes the BEST ROOFING OBTAINABLE. A test will readily determine its superiority. Give it a trial. Write for full information and quotations on our high grade Terne Plates, Black and Galvanized Sheets, Formed Products, Metal Lath, etc., and send for Weight Cards and new Pocket Reference Book.

American Sheet and Tin Plate Company

General Offices: Frick Building, Pittsburgh, Pa.

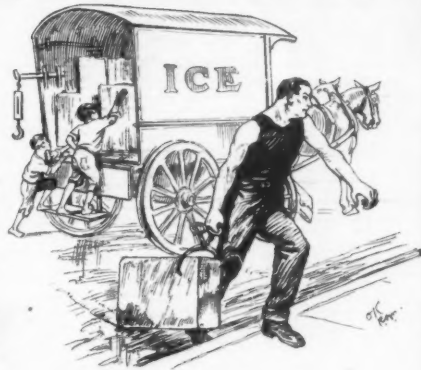
DISTRICT SALES OFFICES:

Chicago Cincinnati Denver Detroit New Orleans New York Philadelphia Pittsburgh St. Louis
 Export Representatives: UNITED STATES STEEL PRODUCTS COMPANY, New York City
 Pacific Coast Representatives: UNITED STATES STEEL PRODUCTS COMPANY, Los Angeles, Portland, San Francisco, Seattle

Show Your Clients How To Eliminate This Sloppy, Unsanitary Method

The slop, dirt and muss caused by periodical icing can be entirely eliminated by use of the Audiffren-Singrun Refrigerating Machine. It produces a dryer air and a lower temperature than is possible with ice. And it eliminates that objectionable refrigerator odor and keeps the food firmer, crisper, fresher and more inviting.

The smallest Audiffren-Singrun Refrigerating Machine occupies a space of approximately 4' x 2' x 2' and requires $\frac{1}{2}$ H. P. to operate it, or, with the average motor, $\frac{1}{2}$ K. W. of electrical energy. This size



AUDIFFREN-SINGRUN Refrigerating Machine



will make 11 lbs. of ice per hour; or if applied to cooling a refrigerator, will produce a refrigerating effect equal to melting 16 lbs. of ice per hour. This effect is automatically stored up and used as required.

This is the first simple, practical and efficient, small capacity refrigerating machine. It has no joints, valves, gauges, stuffing boxes or anything else that will leak or give trouble of any kind. All working parts are hermetically sealed within the shell. Its operation is simplicity itself—one motion turns the power and water on or off. This is the whole story. A child can run it and obtain the same results as one who thoroughly understands its simple mechanism.

Full information will be forwarded by our nearest Branch upon request.

H. W. JOHNS-MANVILLE CO.

MANUFACTURERS OF
ASBESTOS AND MAGNESIA PRODUCTS.

ASBESTOS

ASBESTOS ROOFINGS,
PACKINGS, ELECTRICAL SUPPLIES, ETC.

Albany	Buffalo	Cleveland	Indianapolis	Louisville	New Orleans	Philadelphia	Seattle
Baltimore	Chicago	Dallas	Kansas City	Milwaukee	New York	Pittsburgh	St. Louis
Boston	Cincinnati	Detroit	Los Angeles	Minneapolis	Omaha	San Francisco	Syracuse

For Canada:—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED. 1810
Toronto Montreal Winnipeg Vancouver

The Basis of Beauty in Architectural Achievement is frequently the Enamel. SATINETTE is the foundation of most exquisite architectural accomplishment in the finishing of woodwork and metal in private houses, mansions, hotels, public buildings, steamships, railroad terminals, hospitals, baths, gymnasias, etc.

It will not always suffice to merely make statements in substantiation of a claim, and it is therefore suggested that inquiry be made in person concerning the enamel most conspicuous for its immaculate whiteness found in examples of architecture meeting with your approval.

You do not do yourself justice unless you become acquainted with the merits of "The Perfect White Enamel", SATINETTE.

STANDARD VARNISH WORKS

New York, Chicago, London, Paris, Brussels, Melbourne
International Varnish Co., Ltd., Toronto, Canada.



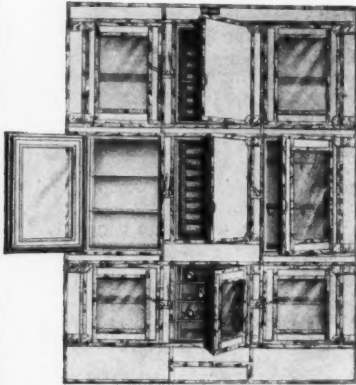
McCray Refrigerators

THE BEST REFRIGERATORS

for the best houses are built in, thus giving the advantage of utmost convenience to the owner. The rear porch icing arrangement keeps the ice man out and avoids the muss on the floor in the kitchen and pantry. Contractors and builders everywhere say that

McCRAY REFRIGERATORS

are easy to install and combine every feature for keeping foods fresh, as well as cold. The air in the McCray is constantly in motion, thus allowing no stagnant pockets for the generation of bad odors or poison. Besides this the McCray has the best of sanitary linings; opal glass, porcelain, enamel and odorless white wood—no zinc—and is of handsome and strong construction.



Send rough floor plan and dimensions and our free design service will co-operate with you thoroughly and furnish you with blue prints, help you with specifications and solve any refrigerator problems which may confront you.

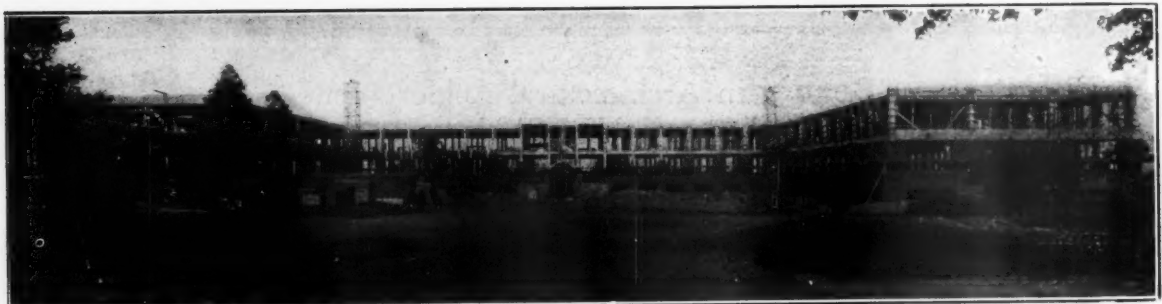
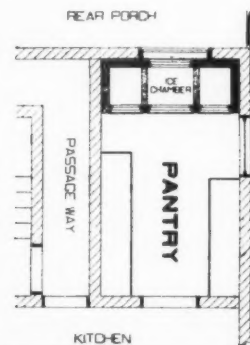
Send for any of the following catalogs: -

	No.
Built to order for residences.....	A. H. 68
For groceries	72
For flower shops.....	59
For meat markets.....	88
Regular sizes for residences.....	49
For hotels, clubs, institutions.....	

McCray Refrigerator Co.

507 Lake Street, Kendallville, Ind.

New York Branch, 231 West 42nd Street



Reinforced Concrete Building for Doubleday, Page & Co., Garden City, L. I. Kirby & Petit, Architects, New York.

The above building is a remarkable example of rapid work in reinforced concrete. It was imperative that the owners obtain the building in the shortest possible time. After considering all types of construction, reinforced concrete was decided on as the most economical in first cost and the quickest to complete. These predictions were borne out in every respect. The roof was complete in 51 working days after footings were started. The total floor area of building amounts to 145,000 square feet. The speed of construction was an average of **3,000 square feet of structure completed per working day** of eight hours. The structure is monolithic, fireproof, vermin proof, and ideally adapted to the demands of a publishing house.

INDUSTRIAL ENGINEERING COMPANY

Branch Offices:

ENGINEERS AND CONTRACTORS

100 State St., Albany, N. Y.
Grant Building, Atlanta, Ga.

30 Church Street, N. Y.

Fireproof Building Construction

BONNELL IRIS AGGREGATE

"CRUSHED JEWELS"

Crushed granite from the IRIS PORPHYRY quarries—screened to all sizes.

BONDING qualities are perfect, making it most desirable for fine concrete work and artificial stone.

As a flooring, it will outwear MARBLE TERRAZO and at the same time, produce a far handsomer effect.

For STUCCO work, the beautiful tone resulting from the use of the IRIS AGGREGATE lends an additional value.

Our quarries are only thirty miles out of New York.
Have our representative call

BONNELL IRIS AGGREGATE, Inc.
IRIS PORPHYRY.

501 Fifth Avenue.

'Phone 309 Bryant.

New York City.

We Want to Help You Please Your Client

We will have done this the minute you specify Mueller Colonial Self-Closing work. We know that he will be no exception to the rule—that he will be pleased.

It has never failed to give satisfaction because it stands up to the most exacting service, puts an instant stop to water waste, thereby decreasing water bills, and eliminates that greatest of all bugaboos—repair bills.

Mueller Colonial Self-closing work is tested under 200 pounds hydraulic pressure and Unconditionally Guaranteed.



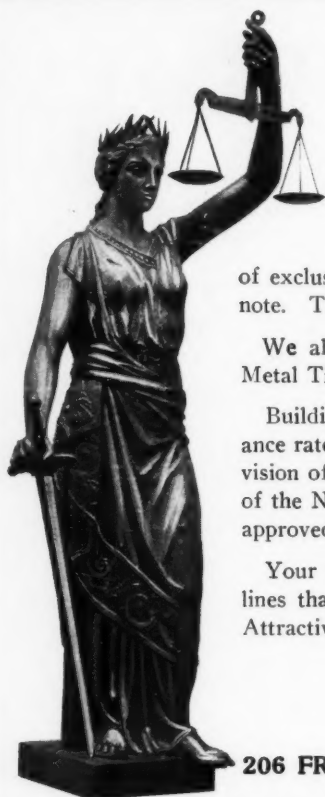
Patented

MADE IN U.S.A.
COLONIAL
REGISTERED

Works and General Offices
DECATUR, ILL., U. S. A.
West Cerro Gordo St.

H. MUELLER MFG. CO.

Eastern Division
NEW YORK, N. Y., U. S. A.
254 Canal St., Cor. Lafayette



MULLINS Sheet Metal Statuary

fulfils every requirement of ideal architectural adornment. Its effect is nothing short of imposing. It is light—withstands the ravages of time. Made from artists own models, or can be selected from our great variety of exclusive stock designs. Has the hearty endorsement of numerous sculptors of note. The cost is far below that of cast or sculptured work.

We also manufacture Fireproof Metal Windows, Skylights, Cornices, Finials, Metal Tile Roofing, and Sheet Metal Ornamental Work of every description.

Buildings that are equipped with Mullins Fireproof Windows have lower insurance rates because Mullins Fireproof Windows are manufactured under the supervision of the Underwriters' Laboratories, Inc., according to the latest specifications of the National Board of Underwriters. Every one of these windows is inspected, approved and labeled with the official approval of that board.

Your written request will bring, by return mail, catalogues covering the line or lines that interest you. Glad to submit quick estimates on architects' drawings. Attractive prices. Prompt service. Special discounts to the Trade. Write to-day.

THE W. H. MULLINS CO.

206 FRANKLIN STREET

SALEM, OHIO

Pullman

AUTOMOBILES

The Architects and Contractors Service Car

The "Pullman" is particularly adapted to the needs of a busy man who drives his own car.

It requires no fussing, no grooming, no work to keep in running order.

It is always ready and always right.

It is light in weight, powerful and fast.

It has a motor so flexible that in the most congested traffic it is rarely necessary to change the gear.

The "Pullman" line ranges from the 4-36 Speedster, \$1,675, which is just what the busy Architect and Contractor needs to visit his various jobs, to the 6-66 seven passenger, \$2,750, which is the last "word" in touring luxury and comfort.

Our 1913 Catalog—based on long years of experience in motor car building—is filled with facts you should know. May we send you a copy?

PULLMAN MOTOR CAR COMPANY

147 BROADWAY, YORK, PENNSYLVANIA



The **"NEVER SPLIT"** CLOSET SEAT

IS A QUALITY SEAT

It is strong as well as handsome

A Seat of Beauty and Durability.

The joints are fastened securely and rigidly together. First, by a tongue and groove, which alone will stand any ordinary strain. Then they are thoroughly glued, with glue which holds.

The **"NEVER SPLIT"** Seats are built from four separate pieces of hardwood, each with the grain running along it, so that the grain runs entirely around the hole, after the pieces are joined together.

In addition to the above points, the following illustration shows the manner in which each joint is permanently secured by steel bolts, steel nuts and steel washers.



The five year guarantee, which is back of every **NEVER SPLIT** Seat, insures the Architect that all clients, for whom he specifies our seats, will be perfectly satisfied.

If you have not received one of our catalogs of plates and prices, which describes, in detail, the perfect construction of these seats as well as the handsome smooth-as-glass piano finish, you should write for it to-day.

NEVER SPLIT SEAT CO.
EVANSVILLE, IND. U.S.A.

Convenience

is
more often
a
necessity
than a
luxury



Western Electric Inter-phones

are synonymous with
home comfort

Include them in the specifications for the homes you are planning.

The satisfactory service and comfort the Inter-phones will give, will gratify your customers.

There is an Inter-phone for every kind of dwelling place—from the smallest city house to the largest country estate.



Let us send you Booklet 2868

WESTERN ELECTRIC COMPANY

Manufacturers of the 6,000,000 "Bell" Telephones

New York	Chicago	Kansas City	San Francisco	Montreal	London
Buffalo	Milwaukee	Oklahoma City	Oakland	Toronto	Berlin
Philadelphia	Pittsburgh	Minneapolis	Los Angeles	Winnipeg	Paris
Boston	Cleveland	St. Paul	Dallas	Calgary	Rome
Richmond	Cincinnati	Denver	Houston	Vancouver	Johannesburg
Atlanta	Indianapolis	Omaha	Seattle	Edmonton	Sydney
Savannah	St. Louis	Salt Lake City	Portland	Antwerp	Tokyo

EQUIPMENT FOR EVERY ELECTRICAL NEED

Given a Client —Will You Keep Him?

**That's a mutual problem
—yours and ours.**

**You are interested in
keeping your client—in
retaining his good will.**

**We are interested in help-
ing you keep him—that
has been our business for
twenty years.**

**Our part consists in sup-
plying a water heater of
the highest possible effi-
ciency—one that provides
a perfect hot water service
at a reasonable up-keep
expense.**

**When you specify a RUUD
you give your client not
only a good water heater
but a life long investment
in comfort and conve-
nience.**

**Could you do more to re-
tain his good will?**

Literature upon request

Ruud Manufacturing Co.

Pittsburgh, Pa. All large cities



Set a High Standard

By Specifying

Trenton Potteries Company

Then satisfy yourself that you're getting what you specify by looking for the Star within the circle trademark.

Our Sanitary Pottery, through every important stage of its manufacture, receives the skilled attention of the best mechanical talent and is made from the finest material obtainable.

The result is a beautifully finished piece of ware, with an exceptionally white, pure color, and durable—resultant of the extremely hard fire or baking to which it is subjected.

No fear of competition prompts us to urge your omission of the words "or equal."

Our catalogue and all necessary or desired information gladly furnished on request.

**The
Trenton Potteries Company
Trenton, N. J.**

Patented Trade Mark



Equalite Semi-Indirect Fixture No. 4351; length 36"; diameter, 17". Suitable for library, hall or dining room.

Bayley AND Sons

Makers of

Lighting Fixtures

105-109

Vanderveer St.

BROOKLYN

N. Y.

"Equalite" is a direct system of lighting that absorbs and deflects enough light to equalize the *direct* light with the *indirect* reflection from the ceiling, thereby gaining the good effects of both. The result is a soft diffusion glow, restful to the eye, and without shadows.

In light efficiency, eye comfort and beauty of design, "Equalite" glass is the nearest to perfection so far obtained in equal lighting effects.

Special attention to special designs.

For diffusive and efficient lighting

For semi-indirect lighting

For cornice, cove or hidden source of lighting

**Use Bayley & Sons
"Equalite" Glass**



TRIANGLE MESH CONCRETE REINFORCEMENT

MADE in rolls. Either solid or stranded tension members. A steel fabric of great strength, reinforcing in every direction.

"Engineer's Handbook of Concrete Reinforcement" furnished free upon request

We Make

American Wire Rope	Barbed Wire
Aeroplane Wire and Strand	Woven Wire Fencing
Piano Wire	Fence Gates
Mattress Wire	Steel Fence Posts
Weaving Wire	Concrete Reinforcement
Broom Wire	Springs
Fence Wire	Sulphate of Iron
Flat Wire	Poultry Netting
Flat Cold Rolled Steel	Wire Rods
Wire Hoops	Juniata Horse Shoes
Electrical Wires and Cables	and Calks
Rail Bonds	Shafting Cold Drawn Steel
Bale Ties, Tacks, Nails, Staples, Spikes	Wire of Every Description

We issue separate catalog for each of these. Gladly furnished upon application.

American Steel & Wire Co.'s Sales Offices

CHICAGO, 25 West Adams Street. NEW YORK, 30 Church Street.
BOSTON, 34 State Street. BOSTON, 120 Franklin Street. CLEVELAND, 111 E. 1st St., Feltz Building. CINCINNATI, Union Trust Building. CLEVELAND, Western Reserve Bldg. DETROIT, Ford Building. ST. LOUIS, Third Nat'l Bank Bldg. PORTLAND, Bank of Oregan Bldg. ST. PAUL, MINN., APOLIN, Pioneer Building, 30. PAUL. DENVER, First Nat'l Bank Bldg. SALT LAKE CITY, 130 South 3rd West Street.

United States Steel Products Company

Export Department: New York, 30 Church Street.
Portland Trust Department: San Francisco, Hotel Building. Portland, Clark and Alder Sts. Seattle, 4th Ave. South & 1st Ave. Los Angeles, Jackson & Central Ave.



This material withstood a raging fire of 2,200 degrees Fhr. for four hours, showing only a slight physical change on fire side, and transmitted only about 5% of this furious heat to the opposite surface.

Think of the intensity of this heat—2,200 degrees for four hours—and replastering on fire side only necessary to restore the partition to perfect condition.

PYROBAR Gypsum Tile is decidedly the most distinct advance in fireproofing offered to the builders of America in the past fifty years.

Practically unaffected by the hottest fire. Zero co-efficient of expansion. Resists action of water under actual fire conditions—no spalling off and exposing the steel structure. And it does not transmit heat—it is truly "fireproofing that protects."

Each PYROBAR Tile is straight and true and contains 2½ square feet, made in thicknesses from 2 to 10 inches. Tough—practically no breakage. Requires not over one-half inch of plaster on a side to finish.

Only about half the weight of clay tile—lightness and large units mean rapid and economical handling and great reduction of dead load in the building.

Most effective non-conductor of sound known commercially.

These are only a few of its conspicuous advantages. PYROBAR Gypsum Tile is a masterpiece of efficiency and economy for Fireproof Partitions, Steel Protection, Elevator Enclosures and Wall Furring. Its intrinsic value entitles it to your preference when designing the highest type of fireproof structures.

PYROBAR Gypsum Tile has been approved by the National Board of Fire Underwriters, Bureau of Standards, the National Government, and is endorsed by leading Architects, Contractors and builders everywhere.

Our PYROBAR book "14 Points of Superiority" will be mailed you promptly on request, without obligation.

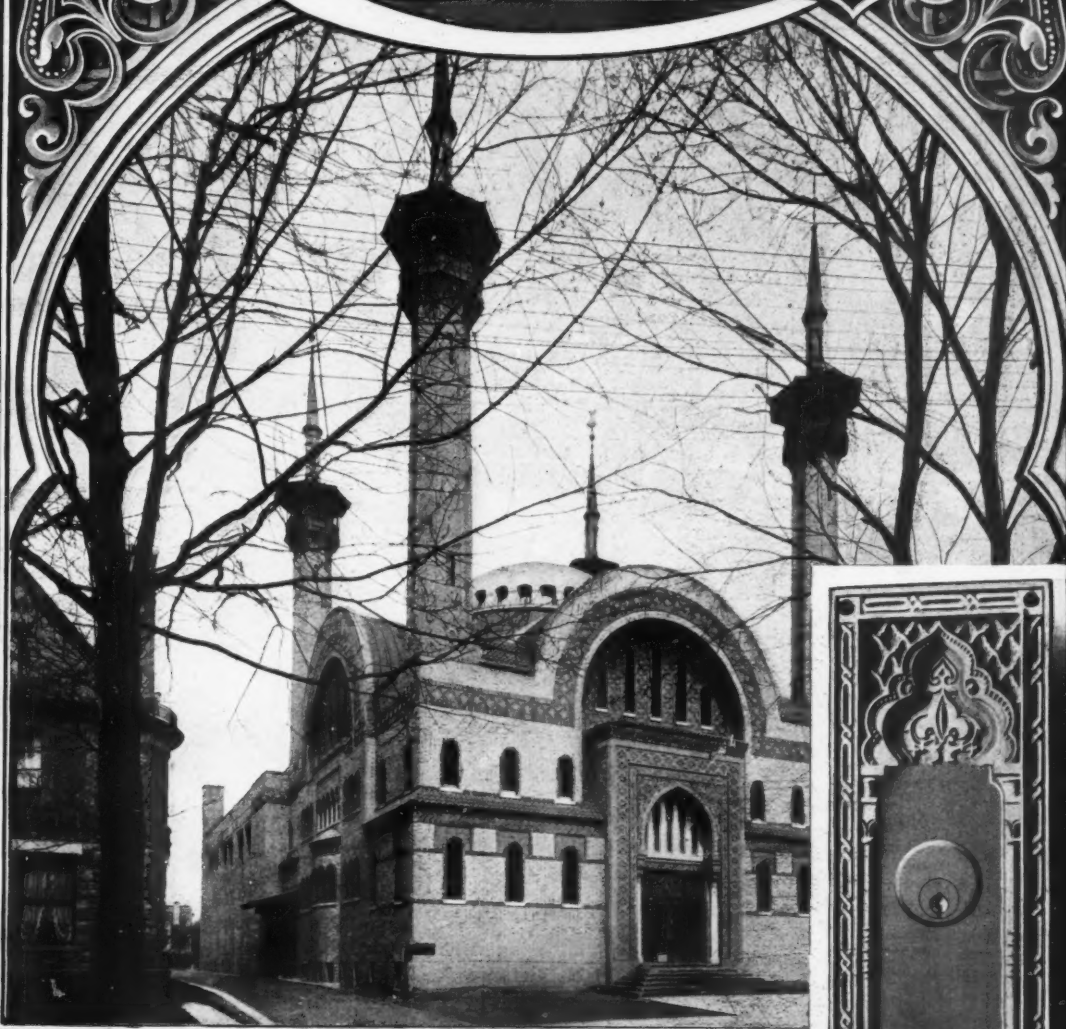
UNITED STATES GYPSUM COMPANY

Makers of the Best in Gypsum Products

New York CHICAGO Cleveland
Minneapolis San Francisco



ORBIN



Irem Temple, A. A. O. N. M. S.

Wilkes-Barre, Pa. Olds & Puckey, Architects.

is equipped throughout with Corbin hardware
of the Granada design as illustrated.

P. & F. CORBIN

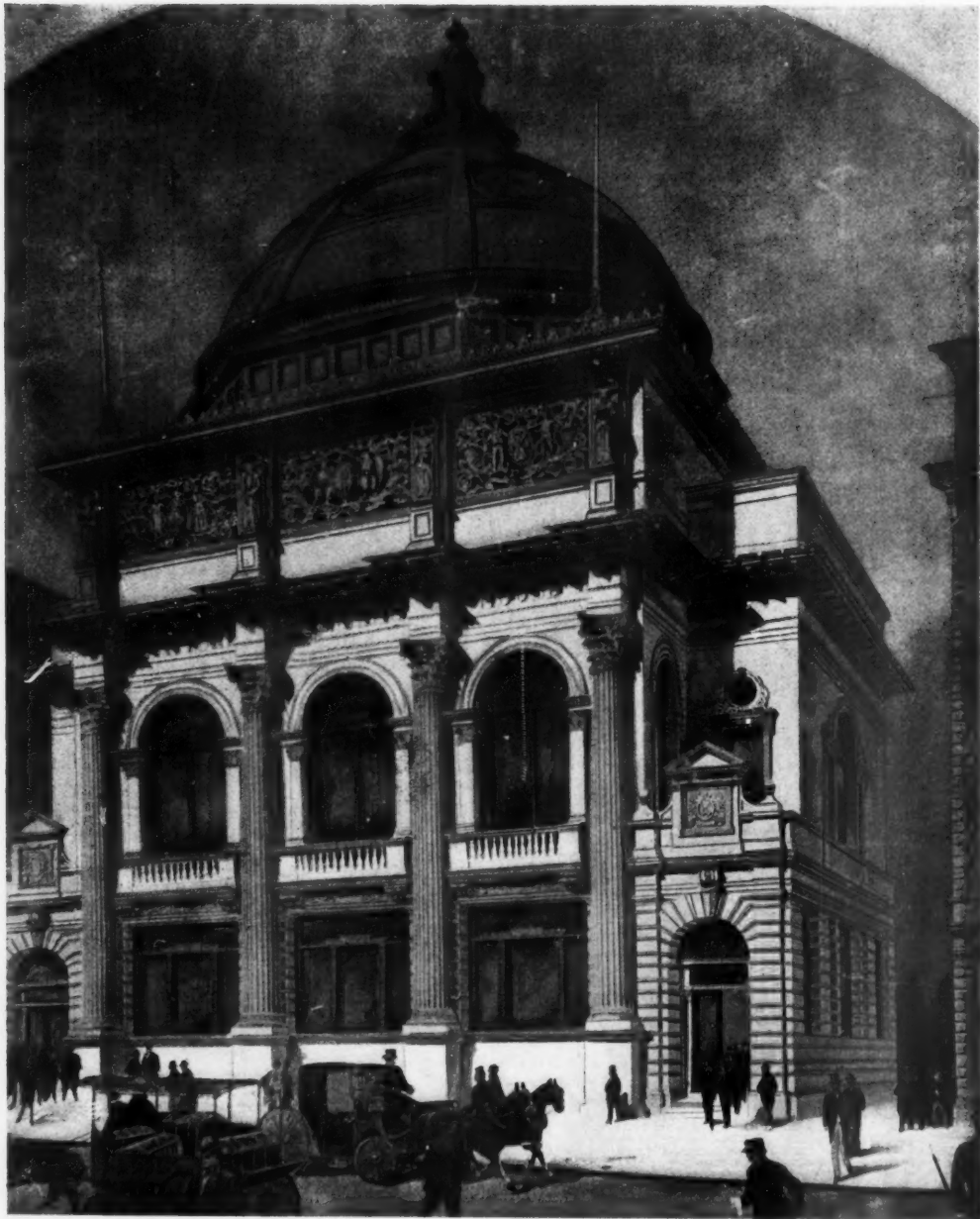
Division

The American Hardware Corporation

NEW BRITAIN, CONNECTICUT

P. & F. Corbin of Chicago. P. & F. Corbin of New York. P. & F. Corbin Div., Phila.





CLEARING HOUSE
NEW YORK CITY

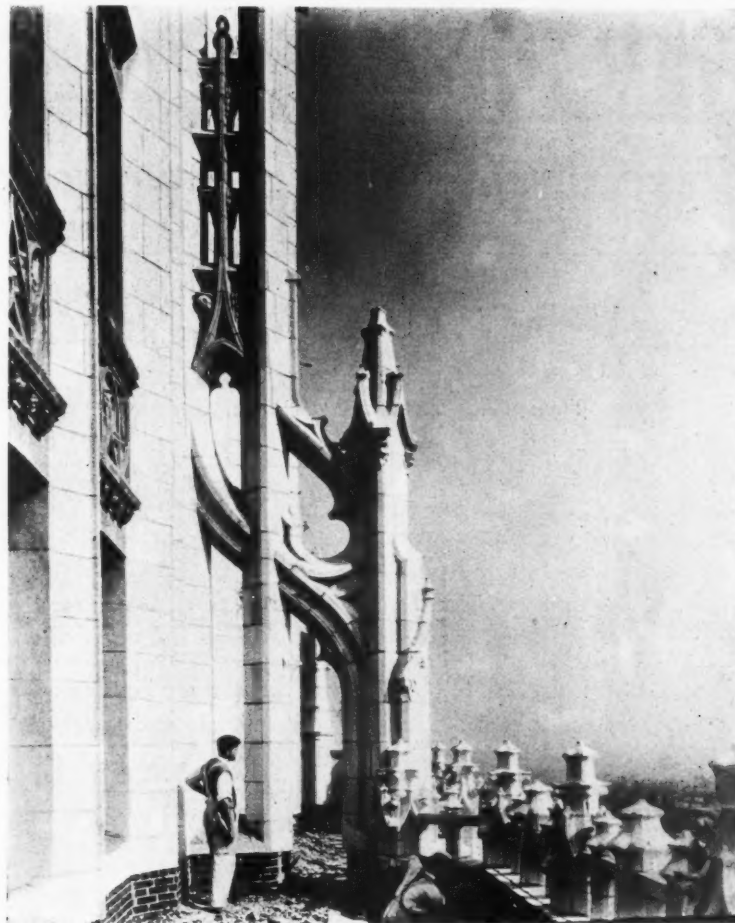
MR. ROBERT W. GIBSON
ARCHITECT

The purity and whiteness of MY MARBLE lend a certain charm to this beautiful and attractive building.

The adoption of marble as a building material by the Government, attests the superiority of MY MARBLE and was specified throughout by the Architect.

LEE MARBLE WORKS, Lee, Massachusetts

W. H. GROSS, Proprietor



Woolworth Building, New York
Cass Gilbert, Architect Thompson-Starrett Co., Builders
 Entirely of Atlantic Terra Cotta from third story up
Flying Buttress at Forty-second Story
Before cleaning and pointing

The blank wall with holes in it will soon be unknown in commercial architecture. The Woolworth Building shows possibilities in Atlantic Terra Cotta that were unthought of a few years ago.

We have been ready for some time to show what we could do, and a building like the Woolworth, designed with minute attention to modeled detail and with extensive but restrained use of color, was just what we wanted.

The Woolworth Building has shown the Architects that beauty in architecture does not mean unwarranted expense, and as a direct result the five plants of the Atlantic Company are cheerfully busy and ready for more.

Booklet on request

Atlantic Terra Cotta Company
 1170 Broadway, New York

PATTERSON BATTERY SETS

CAN YOU AFFORD TO GET ALONG WITHOUT THEM?

SARGENT

SARGENT & COMPANY, MANUFACTURERS
NEW HAVEN, CONN., U.S.A.

BOSTON OFFICE
112 WATER ST.

PHILADELPHIA OFFICE
715-717-719 WITHERSPOON BUILDING

SARGENT & COMPANY

MANUFACTURERS OF HARDWARE

SARGENT & COMPANY, NEW YORK
32-34-36-38 CENTRE STREET

SARGENT & COMPANY, CHICAGO
218-220-222 N. MICHIGAN AVENUE

NEW YORK,
April 12, 1912.

Messrs. Stanley & Patterson,
23 Murray St., New York.

Gentlemen:-

We have your letter of the 10th inst., asking for a report as to the service obtained from the Multiple-Service Patterson Battery Set sold us some three years ago and at that time, connected to the signal system in our New York warehouse.

The following is a statement of facts as to the matter:-

We had installed in our building, electric signalling apparatus that had always, with the old style battery installation, given us nothing but trouble: we never could get over six weeks service out of the battery sets we had in use, although we had gone to the trouble of having two sets of standard type cells put in with double-throw switch and used these alternately at a six-hour stretch: even with all this care, we were constantly called upon to renew the batteries although our circuits were clear of grounds, leaks, etc.

When your Company recommended our installing a Multiple-Service Patterson Battery Set, you told us that a model RMD-36 would do away with all of our troubles: although we hardly believed this possible, we accepted your statement and ordered the battery set: you will doubtless be pleased to know that our Engineer in Charge of Buildings recently reported that since we put this in, he has quite forgotten that we had such things as batteries in our building, for we have not in three years' time, been required to give the slightest attention to the battery set: everything from that day to this has worked perfectly as against continuous trouble with the old style batteries.

Our expense and annoyance with the old equipment was far more costly than the complete cost of the Patterson Battery Set you sold us and to anyone who desires to effectually do away with all battery troubles, we can without hesitation, recommend Multiple-Service Battery Sets.

Yours very truly,

SARGENT & CO.

GOO,0

NOTE: PLEASE REPLY TO SARGENT & COMPANY, P. O. BOX. 1617, NEW YORK. NOT TO INDIVIDUALS

STANLEY & PATTERSON,

The Northern Electric
AND MANUFACTURING CO. LIMITED

Sole Distributors for the Dominion of Canada

Sole Manufacturers
NEW YORK, U. S. A.

Pacific Coast Warehouses
JOHN R. COLE COMPANY
Los Angeles, San Francisco, Seattle

We'll gladly forward copy of Catalog 157, describing in detail full line of Patterson Battery Sets.



SARGENT
HARDWARE

AMERICAN NATIONAL BANK BUILDING,
PENSACOLA, FLA.

CARPENTER, BLAIR
& GOULD, ARCHITECTS.

From Maine to Florida, from the Atlantic to the Pacific, even in foreign countries, in fact wherever sound business is combined with architectural skill in the construction of buildings **SARGENT** hardware plays its part.

SARGENT & COMPANY

Makers of Fine Locks and Artistic Hardware

NEW HAVEN, CONN.

NEW YORK

BOSTON

PHILADELPHIA

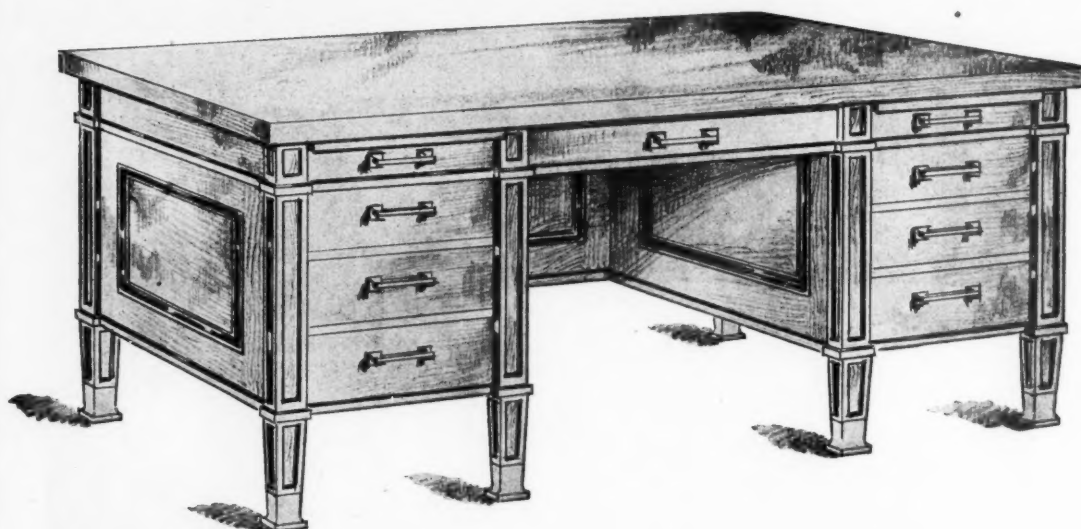
CHICAGO

SARGENT HARDWARE is obtainable through representative hardware merchants in all cities

Commercial Furniture

*For Banks, Libraries, and Public
Institutions*

· ARTISTIC DESIGN IS THE FIRST AID TO EFFICIENCY



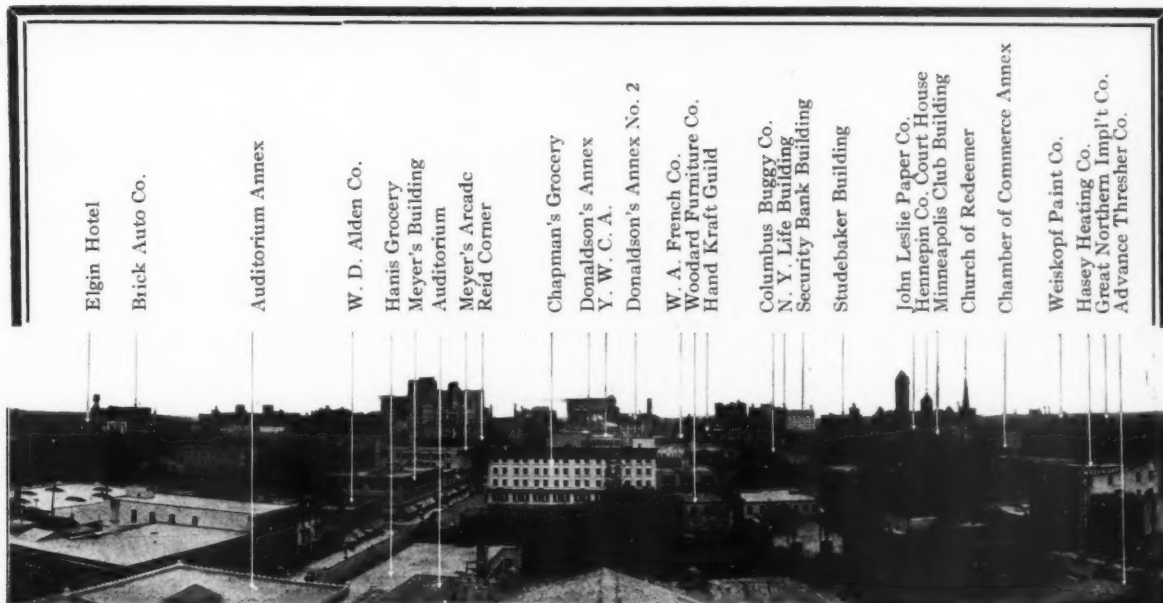
Our facilities for HIGH CLASS manufacturing
are unequalled

We can meet your most exacting requirements in
MATERIAL and WORKMANSHIP

FINEST GRADES OF SELECTED WOODS

Quartered Oak, Mahogany, Circassian Walnut

DERBY DESK COMPANY
BOSTON, MASS.



Important Buildings in Minneapolis, heated with

UNITED STATES RADIATORS AND BOILERS

This is evidence of their popularity wherever efficiency and economy are considered.

United States Radiators have free circulation of water, ample air space, smooth inner passages, full heating surface and tight iron to iron connections. Made in many designs, plain and ornamental.

United States Boilers are built to obtain from every pound of fuel burned the utmost heat results. They eliminate fuel waste, are durable, and last as long as the building.

United States Boilers and Radiators have won hundreds of voluntary testimonials. The reliability of the product of this Corporation is the architect's strongest asset.

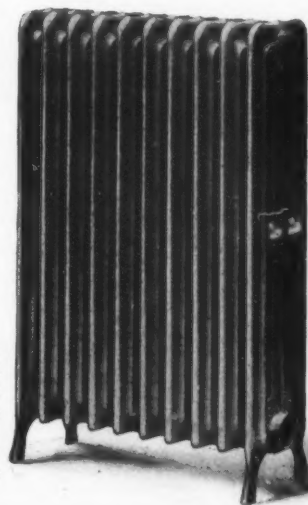
"THE COMPLETE LINE Catalogue" on request.

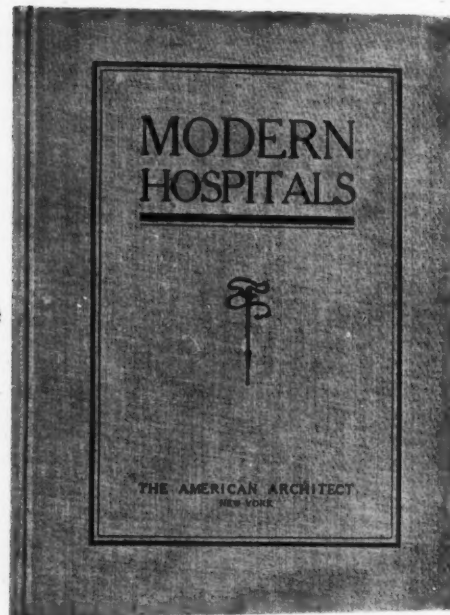
UNITED STATES RADIATOR CORPORATION

General Offices, Detroit, Mich.

BRANCHES AND SHOW ROOMS:

NEW YORK.....	3-5-7 West 29th Street	CLEVELAND.....	1419 Schofield Building
PHILADELPHIA.....	122 North 13th Street	BOSTON.....	236 Congress Street
PITTSBURGH.....	4th Ave. and Wood Street	BALTIMORE.....	709 North Howard Street
WASHINGTON, D. C.,	Metropolitan Bank Bldg.	CHICAGO.....	184 North Dearborn Street
DETROIT.....	139 Jefferson Avenue	MINNEAPOLIS,	901 Washington Ave., South
ST. LOUIS.....	14th and Pine Streets	OMAHA.....	916 Farnam Street
BUFFALO.....	Fidelity Trust Building	KANSAS CITY.....	220 East 10th Street





A VALUABLE BOOK ON "MODERN HOSPITALS"

To Architects who are interested in the construction of Modern Hospitals and their proper equipment, we offer this book.

Its text reflects the latest word in each department treated, and the statements set forth may be taken as based on the best practice.

The illustrations throughout the book are collections of well-designed hospitals that will be helpful and valuable to everyone engaged in the field of hospital construction.

PRICE \$5.00

ADDRESS BOOK DEPARTMENT

THE AMERICAN ARCHITECT

50 UNION SQUARE, NEW YORK



Pyrofuse

TRADE MARK



**At Last A Perfect Garbage Destroyer
THE ACHIEVEMENT OF THE YEAR**

Ideal for Tuberculosis Hospitals

GAS OR GASOLINE is used for fuel because they give more heat, cost less, create little dirt and are less bother than coal or coke.

GASOLINE

Type of *Pyrofuse* is for use in Tuberculosis Camps and other institutions where gas is not available.

Pyrofuse

Will ABSOLUTELY DESTROY sputum cups, contagious dressings and all hospital waste in a sanitary manner. The use of the *Pyrofuse* System will save money in a hospital.

The best system is to place a *Pyrofuse* in each ward if possible. The cost of operation is very small.



PYROFUSE TYPE M
(Showing Gasoline Attachment)

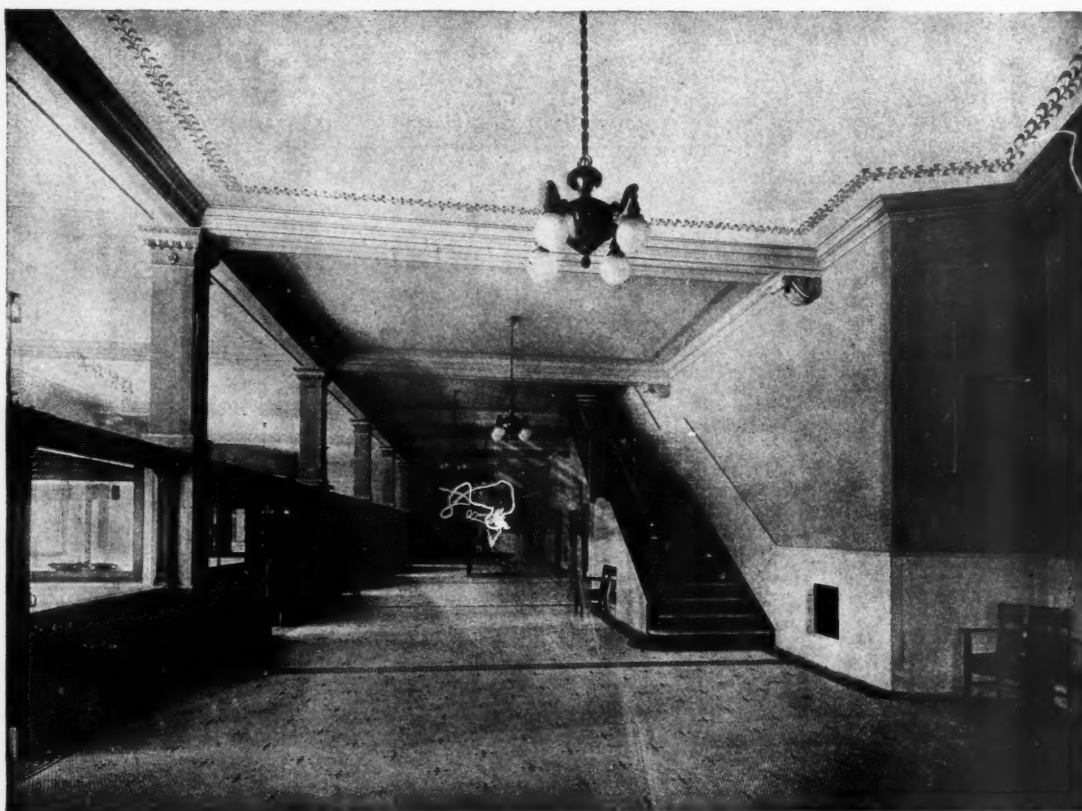
J. B. Prescott & Son, Mfrs.

Factory and Main Offices, Webster, Mass.

New York Office, 38 W. 32nd St., H. M. Graves, Mgr. Chicago Office, 634 Peoples Gas Bldg., H. A. Walters, Mgr.
Representatives in all cities



Sturtevant System of Heating REG. U. S. PAT. OFF. and Ventilating for Offices



Corridor in John B. Stetson Company's Offices, Heated and Ventilated by Sturtevant Apparatus

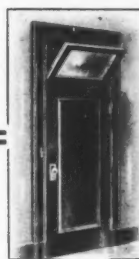
The Sturtevant system is applied to railroad, theatre, office, government, hospital, school and factory buildings, to hotels, stores, banks and every other type of building.

The Sturtevant Company are the largest builders of ventilating fans and hot blast heating apparatus in the world. Sturtevant apparatus represents the best construction. It is the strongest, the most durable, and will give the greatest satisfaction.

With its vast experience as makers of fans and heaters, the Sturtevant Company is always ready to consult with architects and engineers who are installing heating and ventilating systems, and to co-operate with them in choosing the most suitable apparatus.

B. F. STURTEVANT CO.
HYDE PARK, BOSTON, MASS.

AND ALL PRINCIPAL CITIES OF THE WORLD



The Woolworth Building

THE tallest office building in the world—the building which has undoubtedly received as much thought and consideration as to the quality and class of material to be used in its construction as any building ever erected—is being equipped throughout with



**“Glenbell”
Richmond
Concealed
Transom Lifts**

Our new catalogue, which illustrates and describes this device, also gives information as to other prominent buildings in which it has been and is now being installed.

Cass Gilbert, Architect
Thompson Starrett Co., Gen'l Con's.
The Yale & Towne Mfg. Co.,
Hardware Contractors

Concealed Transom Lift Co.

**437 Fifth Avenue, New York
Peoples Gas Bldg., Chicago**



No. 6

"National" Modern Wrought Steel Pipe

Durability

¶ The durability of wrought iron and steel pipe has been under the most critical investigation. Numerous opportunities have been taken to compare wrought iron and steel pipe which has been in actual service together for many years. Experience with other steel products proves nothing as to the durability of steel pipe; the conditions, materials and methods of manufacture being so radically different.

¶ How many of the opinions offered in general as conclusive are found to be based on nothing stronger than mere hearsay! The following conclusions, which have been reached by independent engineers of the highest reputations who have investigated the subject of durability of steel pipe in the field, should have much weight in deciding this important question.

¶ "We believe" (this test) "demonstrates that modern steel pipe of good quality is at least as durable as modern strictly wrought iron pipe in this class of work." This was the report to the American Society of Heating and Ventilating Engineers several years ago by its committee on corrosion after a test in service on hot water piping.¹ Everyone seeking the truth will do well to heed the warning which concludes the report:—"In closing, we desire to call special attention to the fact that we find it is not safe to accept reports regarding the corrosion of wrought iron and steel pipes without first identifying the materials, because so many engineers cannot ordinarily distinguish the difference between them."

¶ "In my judgment, from the evidence collected, there was absolutely no difference in the corrosion of the two classes of pipe (i.e. wrought iron and steel)"; was the conclusion of Prof. Ira H. Woolson, after he investigated the rusting of hot-water piping in New York City bath-houses.²

¶ "These results again demonstrate that taken on the average there is no difference in the corrosion of iron and steel pipe"; is the statement of Dr. W. H. Walker, after making the most thorough research ever carried out on the corrosion of many samples of adjacent iron and steel pipe in hot and cold water, live and exhaust steam, brine lines, etc.³

¶ A number of similar investigations relative to the durability of the two materials in various sections of the country confirm the conclusion that steel pipe in general is damaged by corrosion no more than wrought iron, and in many cases corrosion is less.

¶ Considering these facts, which refer to pipe made about ten years ago, is it not reasonable to believe that "NATIONAL" Modern Wrought Steel Pipe, as made by National Tube Company today, will outlive the best wrought iron because of the improvements made in recent years in pipe steel manufacture which maintains remarkable uniformity and corresponding rust-resisting properties.

¶ A copy of the new edition of the book, MODERN WELDED PIPE, N. T. C., Bulletins, or Specification for Standard Welded Pipe will be sent upon request.

1—Proceedings, Amer. Soc. H.&V. Eng'rs. 1910.

2—Engineering News, Dec. 3, 1910, pg. 630.

3—"The Relative Corrosion of Iron & Steel Pipe as Found in Service," by Dr. W. H. Walker, Journal of the New England Water Works Association, Vol. XXVI, No. 1, March, 1912.

NATIONAL TUBE COMPANY

General Sales Offices, Frick Building, Pittsburgh, Pa.

DISTRICT SALES OFFICES: { ATLANTA DENVER NEW YORK PITTSBURGH SALT LAKE CITY
CHICAGO NEW ORLEANS PHILADELPHIA ST. LOUIS

PACIFIC COAST REPRESENTATIVES: { U. S. STEEL PRODUCTS CO.—SAN FRANCISCO PORTLAND
SEATTLE LOS ANGELES

EXPORT REPRESENTATIVES—U. S. STEEL PRODUCTS CO., NEW YORK CITY

*This is the sixth of a series of announcements appearing in THE AMERICAN ARCHITECT regarding "NATIONAL" Modern Wrought Pipe.

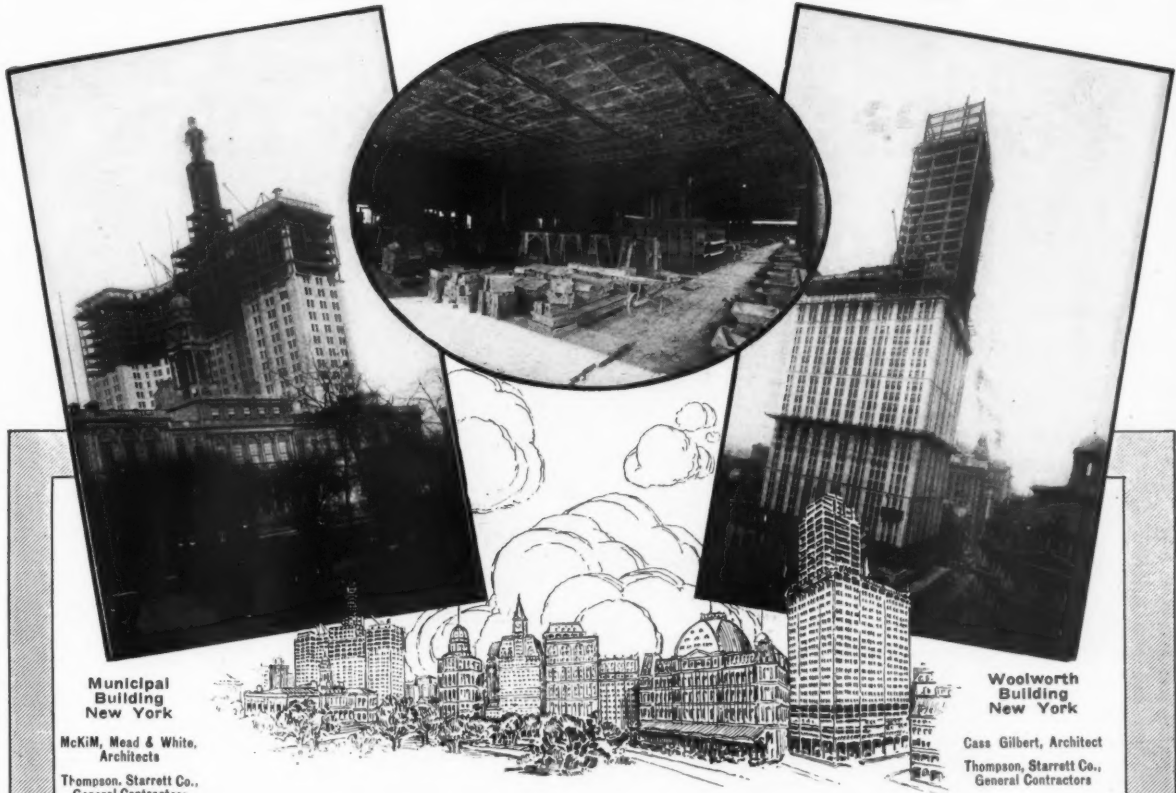
No. 1—"Main Characteristics" appeared May 24.

No. 2—"Uniformity" appeared June 5.

No. 3—"Physical Properties" appeared July 3.

No. 4—"Structure of Wrought Steel and Iron Pipe" appeared August 7.

No. 5—"Inspection and Marking" appeared Sept. 4.



Many thousands daily pause in City Hall Park, New York, to view two buildings in course of construction which represent the highest advance of building practice in the world. These are the

Municipal Building AND THE Woolworth Building

The element of safety being, as it is, the limiting factor as to the height and size of modern buildings, the fact that both these record breaking structures are fireproofed by the methods and materials of this Company carries unusual significance.

Up to the end of June

**56,000 tons or 3,500,000 sq. ft. of
Terra Cotta Hollow Tile**

the standard product of this Company, had gone into the fireproofing operations of these buildings, with great additional quantities still to be estimated.

National Fire Proofing Company

Main Office: PITTSBURGH, PA., Fulton Building

Chicago—Commercial Nat'l Bank Bldg.
Cincinnati—Union Trust Building
Canton—City Nat'l Bank Building
Detroit—Penobscot Building

Minneapolis—Lumber Exchange
St. Louis—Central Building
New York—Flatiron Building
Philadelphia—Land Title Building
Boston—John Hancock Building

Washington—Colorado Building
Columbus—West Broad Street
Cleveland—Chamber of Commerce Bldg.
Toronto, Ontario.

TWENTY-SIX FACTORIES IN THE UNITED STATES

Peerless Sheet Rubber Tiling



Interior of Prominent Church, New York City, in which PEERLESS Sheet Rubber Tiling is Laid

ARCHITECTS, BUILDERS and CONTRACTORS by specifying PEERLESS SHEET RUBBER TILING, protect their clients and their own interests, as the Tiling for floor covering cannot be excelled.

Being made in one piece, there are no crevices in which dirt or water can accumulate, thus making it thoroughly sanitary.

Our Sheet Tiling is made up in a variety of designs and combinations of color effects to harmonize with any color scheme. It can be laid with less trouble than any other flooring, thus saving time and expense.

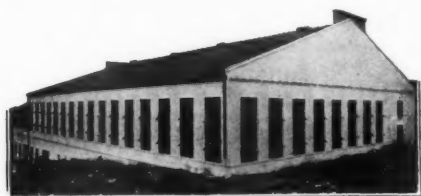
SHEET RUBBER TILING is most desirable for Banking Institutions, Libraries, Churches, Hospitals, Theatres, Clubs, Public Buildings, Steamships, Yachts, Elevators, Kitchens, Bath-rooms, etc.

We also manufacture a complete line of high-grade mechanical Rubber Goods, including BELTING, HOSE and PACKINGS of every description.

PEERLESS RUBBER MFG. COMPANY

16 WARREN STREET, NEW YORK CITY

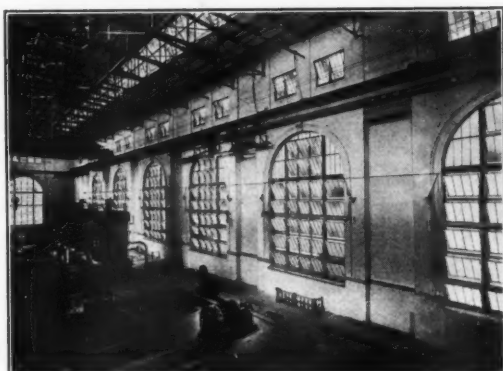
For Maximum Efficiency—Specify



Lupton Steel Sash, Standard Construction.



Pond Continuous Sash in Sawtooths.
Lupton Steel Sash in Side Walls.



Lupton Steel Sash, Power House Type. Sash in the Six
Openings Are Controlled from One Power by
Pond Operating Device.



Lupton Steel Partitions.

Lupton Products

each of which is highly developed in every detail and is constructed for strength, simplicity and permanency.

Behind the Lupton Products is Lupton Service—expert advice on matters pertaining to daylighting and natural ventilation of all kinds of buildings, always freely at your service.

Lupton Steel Sash are made of solid rolled steel members with storm and draft-proof ventilators. In addition to our standard construction we manufacture sash of special construction to meet various requirements, such as Lupton Steel Sash, Power House Type, a unit sash 100% ventilating; Counterbalanced Type, particularly adapted for Forge Shops and Foundries; Projected Ventilator Type, which swings out and does not interfere with use of screens or shades; special sash with circular or camber heads or other ornamental features.

Pond Continuous Sash, made of solid rolled steel members, with all joints welded, gives unequal results in monitor and sawtooth construction because it is weathertight open or closed and permits ventilation at all times without exposing the interior of the building.

Pond Operating Device entirely different in mechanical principle from any other sash operating device. Power is transmitted by tension without loss from friction. Gears are immersed in Albany grease; hinged connections have phosphor bronze bearings. Working conditions are permanent; vibration or settling of building do not affect the device.

These and other Lupton Products are illustrated and described in our catalogue, a copy of which should be in your files.

David Lupton's Sons Co.

Trenton Ave. and Allegheny Ave.

Philadelphia

Sales Offices: Chicago—New York—Pittsburgh

Canadian Manufacturers:

A. B. Ormsby, Ltd., Toronto

Modern School Houses

A Series of Authoritative Articles on

Planning, Sanitation, Heating, and Ventilation
of MODERN SCHOOL BUILDINGS, contributed by

A. D. F. Hamlin, Professor of Architecture, Columbia University. C. B. J. Snyder, F. A. I. A., Architect, Board of Education, New York. William B. Ittner, F. A. I. A., Architect, Board of Education, St. Louis. Frank Irving Cooper, Architect. Wm. H. Brainerd, Architect. Charles Morris, Architect. Frank G. McCann, Chief of Heating and Ventilating Division, Board of Education, New York. Charles F. Eveleth, Heating and Ventilating Engineer, School House Department, Boston, Mass. Leo H. Pleins, Sanitary Engineer, and others



Liberty School, Englewood, N. J.

Davis, McGrath & Kiessling, Architects

To which is added more than 145 pages of illustrations of recently completed School Houses, plans and working drawings, from the four-room building to the largest Normal and Technical Schools, many of which have not heretofore been published.

Full cloth, gilt title, pages 9 x 12½ inches.

PRICE, \$7.50 POSTPAID

BOOK DEPARTMENT

THE AMERICAN ARCHITECT
50 UNION SQUARE NEW YORK

(504)

Otis Elevators

have been chosen for the L. C. Smith Building, Seattle, Wash.—
the tallest office building in the World outside of New York City.

The main equipment consists of
eight Otis **High-Speed Electric Trac-**
tion Elevators similar to the Eleva-
tors in the Metropolitan, Singer and
Woolworth Building towers, New York.

A few other representative
office buildings equipped with
Otis Traction Elevators:

Bankers Trust Building, New York City.
Rothschild Building, Chicago, Ill.
Peoples Gas Light & Coke Co., Chicago, Ill.
Insurance Exchange Building, Chicago, Ill.
I. M. Van Nuys Building, Los Angeles, Cal.
Railway Exchange Building, St. Louis, Mo.
Whitehall Building, New York City.
Bamberger Building, Newark, N. J.
Estate of H. W. Oliver, Pittsburg, Pa.
Syndicate Trust Company, St. Louis, Mo.
Humboldt Bank, San Francisco, Cal.
Hearst Building, San Francisco, Cal.
Spaulding Building, Portland, Oregon.

Otis Traction Elevators
combine Safety, Extreme
Simplicity and Maximum
Economy.

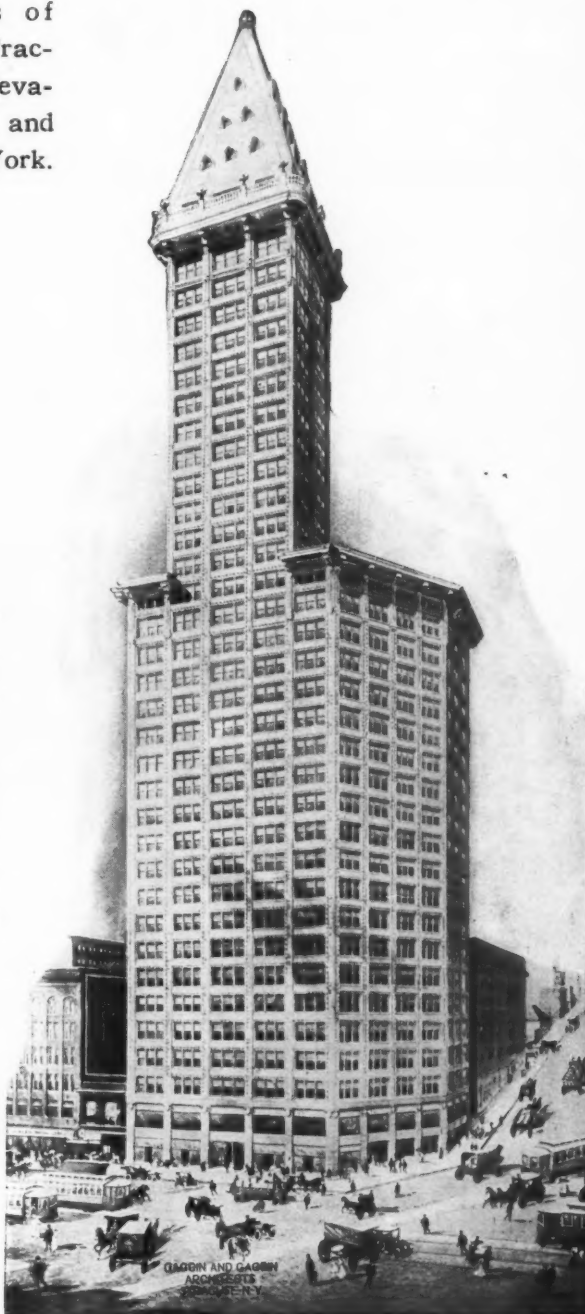
On the basis of over fifty-
five years' experience in Ele-
vator construction, and un-
equalled service—we invite
your inquiries.

Otis Elevator Company

Otis Elevator Building

Eleventh Ave. and Twenty-sixth Street
New York City

Offices in All Principal
Cities of the World



L. C. Smith Bldg., Seattle.



Examples of Russwin Builders Hardware
in the Style of the Italian Renaissance.



RUSSELL & ERWIN MFG. CO.,

The American Hardware Corp. Successor
NEW BRITAIN, - CONN.

SAN FRANCISCO

RUSSELL & ERWIN MFG. CO., of New York
94-98 Lafayette St.; 105 West 40th St.

LONDON, ENG.

RUSSELL & ERWIN MFG. CO., of Chicago
73 East Lake St.

Economical Building Construction

CONCRETE REINFORCED WITH SELF-SENTERING

Because of its simplicity, utility and adaptability, Self-Sentering is particularly suited for buildings which must be quickly and economically erected to stand the wear and tear of years, keep insurance cost down to the minimum and eliminate frequent costly repairs. Self-Sentering is a combination of reinforcement and centering.



For Roofs and Floors

Self-Sentering is the ideal construction for flat, pitched or saw-tooth roofs and for floors. It can be laid in a fraction of the time required to lay other styles of roof. Thus it reduces labor bills. The concrete is applied on top to the required depth. Plaster is applied underneath. Self-Sentering is merely fastened to the beams with clips from the upper side without the use of special tools.

For Ceilings

Self-Sentering acts as both lath and furring. It is applied with the lath surface down, direct to the beams and intermediate supports. The expanded metal fabric gives a perfect key for plaster. The closely spaced heavy ribs give unusual rigidity. It is the simplest to erect and costs less than any other fireproof ceiling.

For Walls and Partitions

Self-Sentering is attached to all permanent supports and plastered on both sides to the thickness wanted. No studding is required.

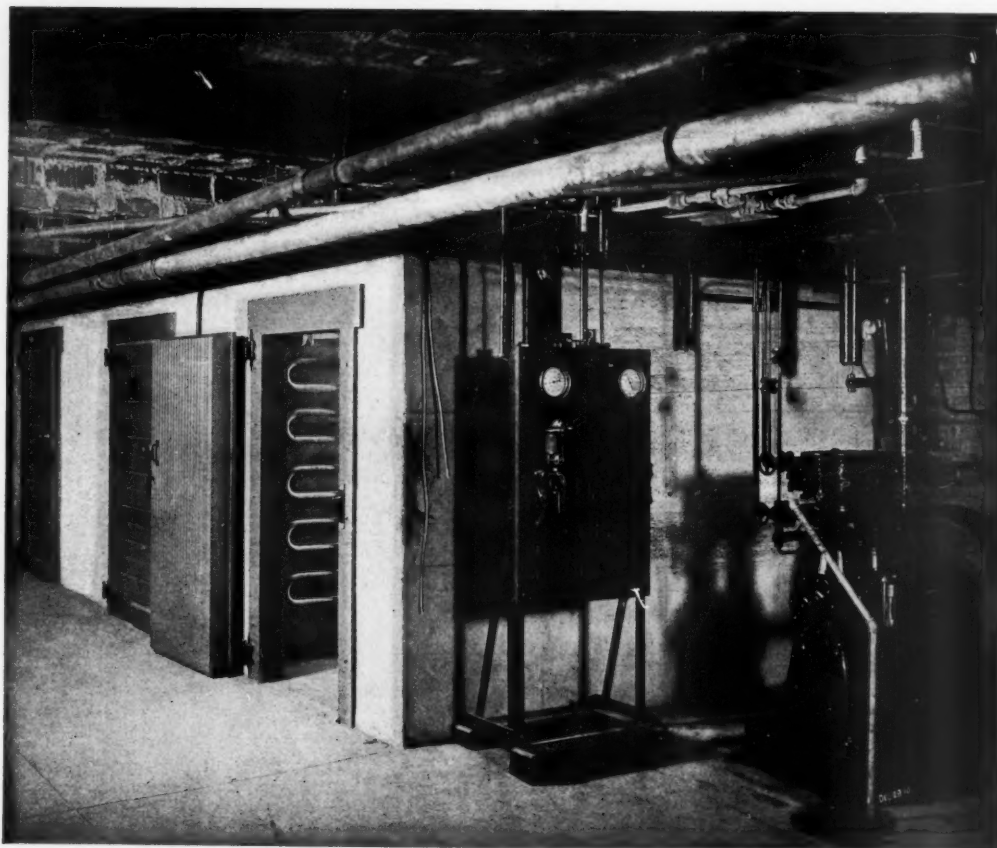
Write To-day for 80-page Book

dealing with economical fireproof construction and explaining in detail the numerous uses of Self-Sentering.

The General Fireproofing Company
2102 Logan Avenue **YOUNGSTOWN, OHIO**



Automatic Refrigeration that Is Automatic



Part of a Small Automatic Refrigerating Plant Installed in a Store at Pittsburgh, Pa.

Our plants are absolutely controlled by thermostat and, day or night, *automatically start* when temperature rises above and *stop* when temperature falls to predetermined point.

Expansion of gas in coils and flow of condensing water in condenser also *automatically* controlled.

Cost of operation much less than is possible with any hand-controlled plant as "personal equation" is eliminated.

Automatic safety devices to protect motor and prevent damage from failure of water supply.

Our plants require almost no attention. We furnish only high-class plants. We are specialists in Mechanical Refrigeration and always glad to assist Architects in the working out of refrigeration problems and the preparation of specifications. Hundreds of plants of capacities ranging from 1000 lbs. to 30 tons per day in successful operation. Let us help *you* please *your* clients.

THE AUTOMATIC REFRIGERATING COMPANY

Main Office and Works: HARTFORD, CONNECTICUT

We are the *ONLY* builders of *AUTOMATIC* Refrigerating plants and are thoroughly protected by Patents



HY-RIB Ceilings—Mount St. Joseph Academy, Buffalo, N. Y.



HY-RIB Partition—Note grounds for base-board and chair-rail.

HY-RIB Partitions and Ceilings—Add Strength and Save Money!

PARTITIONS—HY-RIB is a combined unit of steel lath and channels, providing a more rigid reinforcement and saving the labor and time of wiring lath to studs. Merely set up the HY-RIB Sheets, plaster both sides and the partition is complete. HY-RIB Partitions save space.

CEILINGS—HY-RIB does away with the small stiffening channels required with metal lath, saving the expense of wiring and simplifying construction. HY-RIB sheets are attached to lines of support, spaced three to five feet apart. HY-RIB provides a perfect key for the plaster.



HY-RIB—Concrete Roofs, Floors, Walls and Sidings without Forms

ROOFS AND FLOORS—HY-RIB is a combined unit of reinforcement and centering, doing away with all forms. Simply lay the HY-RIB over the supports, pour on the concrete and plaster the underside.

HY-RIB Roofs are thin, saving in dead weight and in the supporting frame work. HY-RIB Roofs are exceptionally strong and rigid.

HY-RIB is furnished bent to the exact curve for arched floors, saving the very expensive circular centering.

WALLS AND SIDINGS—HY-RIB makes a monolithic concrete wall, two inches thick, better and more economical than brick, corrugated iron or wood.

HY-RIB does away entirely with centering and stiffening channels. Simple to erect, merely fasten to framework and plaster.

HY-RIB Concrete Roofs—Built without forms—
Packard Motor Car Co., Detroit.Artistic HY-RIB Concrete Sidings—Built without forms—
Sunset Publishing Co., San Francisco, Cal.

HY-RIB Hand Book contains complete information on many applications with details, specifications and illustrations. FREE upon request.

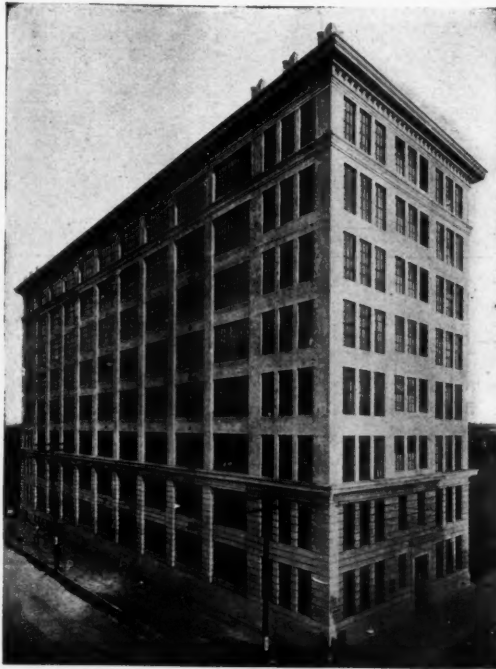
Trussed Concrete Steel Company

DETROIT, MICHIGAN

Reinforced Concrete, Hy-Rib and Lath, Steel Sash, Waterproofings, Finishes, Building Specialties.



All Types of Sash for all Conditions of Openings



Turner-Carter Co. Bldg., Brooklyn, N. Y.
Frank J. Helme, Architect. Turner Construction Co.,
Contractors.
Daylighted throughout with UNITED STEEL SASH
(pivoted Side Wall Sash).

UNITED STEEL SASH

Vertical Sliding Sash
Horizontal Sliding Sash
Pivoted Side Wall Sash
Center Pivoted Continuous Sash
Top Hung Continuous Sash
Movable Partitions of Steel and Glass
Sliding and Swing Doors
Casement Sash

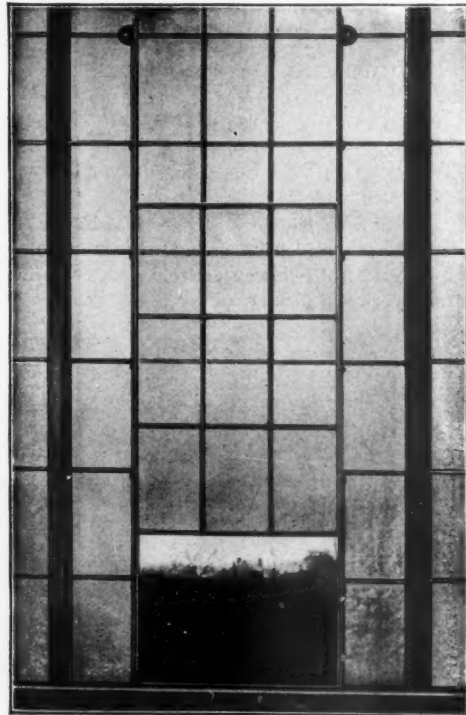
UNITED STEEL SASH flood the Interior with Daylight, making the man at the machine more accurate and speedy. UNITED STEEL SASH are proof against fire, weather and storm.

UNITED STEEL SASH are machine-built of rolled steel, unweakened by cutting or punching. Cannot rot, warp nor burn. Have wide ventilators with double contact joints that effectually shut out drafts and storms.

Vertical Sliding Sash No Projecting Ventilator Frames

UNITED STEEL SLIDING SASH eliminate the projecting frames of pivoted ventilators—permitting the use of shades, screens, etc. Easily cleaned and do not catch dirt when open. Prevent accidents caused by employees striking against frames. Nothing to interfere with placing of machinery or fixtures. Maximum ventilation.

UNITED STEEL SLIDING SASH are operated easily and quickly with spring counter-balances.



Vertical Sliding Sash with Spring Counter-balance.

UNITED STEEL SASH Hand Book describes all types of sash and contains valuable suggestions. Sent FREE upon request



Trussed Concrete Steel Company
DETROIT, MICHIGAN

Reinforced Concrete, Hy-Rib and Lath Steel Sash, Waterproofings, Finishes, Building Specialties.



CURRENT NEWS AND COMMENT

HOUSE NUMBERING

A writer in an English periodical states that the present year is the four hundredth anniversary of the numbering of houses and that in spite of the fact that this custom is of such long standing it has not yet reached a satisfactory system or a standard way of displaying the numbers, so that they may be distinguished either by night or day. In the year 1512 a French architect devised a system of house numbering and about ten years later a method was adopted in Berlin. Houses were then numbered without any reference to their streets but in the order of their erection, so that succeeding numbers instead of applying to adjacent houses might be found more than a mile apart. This strange system survives to the present day in some parts of the East—Yokohama, for instance, where a new house is given the next number following that of the house that was last built, though it may be in an entirely different part of the city. A method employed in St. Petersburg would seem to be one that would afford the night traveler some means of relief from those vexations which beset him in our American cities, when he searches after dark along the streets for a certain number, only to be found after he has burglar-like surreptitiously mounted the steps of a great number of houses. In St. Petersburg they display the numbers of houses by little lanterns bearing the numbers on the glass, so that one can readily find the desired number. And while discussing the subject of house numbering, it is pertinent to refer to the very slipshod manner in which we designate the names of our streets. Modern street traffic has become so rapid that the usual signs discernible from the slow-moving car can be no longer read. We have not kept pace in our designation of streets with the improvements and rapidity of our present methods of moving about out of doors. We have much to accomplish in this direction. First, in devising satisfactory means of remedying defects, and second, in securing their adoption by municipal authorities in control of such matters. The latter task is probably the greater.

DALLIN'S STATUE TO REMAIN IN BOSTON

The statue, "The Appeal to the Great Spirit," by Cyrus E. Dallin, which has been temporarily established in the front of the Museum of Fine Arts, while the Metropolitan Improvement League in Boston has been endeavoring to raise sufficient funds to purchase it, we now learn will, through the donation of Mr. Peter C. Brooks, be kept in Boston and will find a permanent resting place either in the Fenway or remain in its present location. Several

other cities were eager to possess this very interesting example of American sculpture, which represents a horse and its nude Indian rider, who is stretching his arms towards the rising sun. The presence of so excellent a work of art is, as stated by a local paper, a decided step towards a higher standard of public sculpture in Boston.

ATLANTA, GA., ABOUT TO UNDERTAKE PREPARATION OF A CIVIC PLAN

The growing activity in this country along lines of civic development is leading to efforts of cities in all sections. To correct present errors in planning and prepare for proper future development with a view to improving public utilities in the city of Atlanta, Ga., the Chamber of Commerce in that city will shortly present a petition to the Mayor, asking him to authorize a body, to be known as the Atlanta Improvement Commission, which will have as its object the preparation and adoption of a city plan. The Commission will consist, according to reports, of the Park Board Commissioners and the officers and directors of the Chamber of Commerce.

The idea is in direct line with the plan which over fifty other American cities have taken up within recent years.

GROWTH OF THE ART OF MURAL DECORATION IN THE UNITED STATES

Among all of the artistic developments in the United States which have been significant of progress in the last fifteen or twenty years none has been more important than the growth of mural decoration. We owe a heavy debt to those public authorities who have come to realize the desirability of doing all that can possibly be done to make monumental buildings really beautiful. We are also indebted to the architects, who in these newer projects have been quick to call the painter and the sculptor to their aid. Art cannot live by "exhibitions" alone. It is an old axiom that to play its true part in the life of the people it must become a thing of everyday, familiar use. The good painting or sculpture that is set in some public place exercises a peculiarly beneficial influence. Little by little it has its effect upon current taste.—*New York Tribune.*

TREES IN CITY STREETS

The summer visitor to Washington, D. C., is always impressed with the beauty of the trees that border the streets in the residential section of the Capital City. During the recent convention of the American Civic Federation held in Baltimore, speak-

THE AMERICAN ARCHITECT

ers referred to these tree-bordered streets and made a plea for more trees in the streets of all of our American cities.

There can be but one opinion as to the desirability of trees, but there are many as to the feasibility of maintaining them so that they may grow and flourish and become an attractive feature.

Subways, conduits, sewers, and the many underground channels that are part of our streets below the surface, all tend to impoverishment of soil and a constant drainage of moisture. More than one American city has experienced the loss of its trees in the streets after the sewers and conduits have been laid.

Every New Yorker of middle age knows how beautiful were its streets some thirty-five years ago. He knows how they became disfigured with a maze of wires, which after much protest were placed underground. Then the trees became scarcer until at last they have in most localities entirely disappeared.

Substantial improvements, as in this case, are often gained only at the expense of other features that are attractive.

Shade trees require soil, moisture and care. Apparently they cannot in large cities have moist soil, and it is doubtful if they may always receive the necessary care and protection.

ARCHITECTURAL DEPARTMENT, CATHOLIC UNIVERSITY, WASHINGTON, D. C.

The students in the Architectural Department in the Catholic University, at Washington, D. C., have organized a club for the purpose of promoting knowledge of architecture and furthering the social side of college life. The following officers have been elected:

Everett S. Beall, Jr., president; C. J. Robinson, vice-president; John J. Haaren, secretary-treasurer, and Robert O'Neil, librarian.

CIVIC ASSOCIATION ELECTS OFFICERS

At the annual meeting of the National Civic Association, held during the recent meetings at Washington, the following officers were elected for the ensuing year:

J. Horace McFarland of Harrisburg, Pa., president; John Nolen of Cambridge, Mass., first vice-president; William B. Howland of New York, treasurer, and Richard Watrous of Washington, D. C., secretary.

THE CRUSADE AGAINST BILLBOARDS

Following the example of San Francisco, in the matter of signboards—an account of which has already appeared in these columns—a committee of the San José (Cal.) Chamber of Commerce has made an appeal to property owners in that city to aid in the efforts to mitigate this nuisance by caus-

ing to be removed the unsightly signs that are disfiguring the city.

A writer in the daily press, referring to this subject, urges taxation of billboards as a means to prevent their erection. He states that owners of unimproved property find a source of income from these billboards and for this reason lend a willing ear to the arguments of the promoters. If the tax, he adds, could be made to offset the amount of income derived, owners would not be so willing to lease their property for advertising purposes and the promoter would have to offer increased inducements to secure a place to flaunt his garish announcements. The plan would seem to be worth considering.

COURSE IN TOWN PLANNING A SUCCESS IN ENGLAND

The University of London having had great success with its first summer school of town planning, has now made this subject a feature of the regular curriculum. The summer course was designed to be of value to architects, engineers and surveyors; but in addition to these the registration shows laymen from every walk in life. Even that hard-headed individual, the real-estate agent, whose only interest in land was supposed to be a commercial one, has attended the lectures, which embraced the whole field of town making from the civic and commercial center to the garden suburb.—*Baltimore American.*

MADISON, N. J. ENDEAVORS TO SOLVE BILLBOARD NUISANCE

The Borough Council of Madison, N. J., has passed an ordinance to the effect that all property upon which advertising billboards are erected shall be assessed in their valuation to an amount that will exceed the revenue from the billboards. It will be interesting to note the result of this ordinance.

BOOK NOTES

BUILDING STONES AND CLAY PRODUCTS. A Handbook for Architects. By Heinrich Ries, Ph.D. 414 pp., illustrated. Full cloth. Size 6 x 9 inches. Price \$3.00 net. New York: John Wiley & Sons. London: Chapman & Hall, Ltd.

The author, believing that at least a preliminary knowledge of the subject of building stones and clay products is of importance to the architect, has prepared this work with special reference to the man in practice. Few people, he believes, will deny that familiarity with the properties and durability of material, and, in the case of clay products, their methods of manufacture, will enable architects to select and use these materials with greater intelligence. In order to make the work of the greatest

THE AMERICAN ARCHITECT

availability, it has been divested of the ultra-technical description that generally accompanies a work of this nature, and while the geology of the subject, the origin and formation of building stones and clay products has necessarily been dwelt upon to some extent, the description is divested of much of that technical wording that clouds the meaning to the lay reader and causes him to lay aside the work as too technical, considering the time that he can devote to its perusal.

Particular attention has been given in the description of building stones, to their weathering qualities, color, their susceptibility to working tools, and other information that architects should possess.

A PRACTICAL MANUAL OF STEAM AND HOT-WATER HEATING. By Edward Richmond Pierce. Full cloth, 340 pp. Size $5\frac{1}{2} \times 8\frac{1}{2}$ inches. Chicago: Domestic Engineering Company.

In a preface to this work the author states that for more than a quarter of a century he has been engaged with those who manufacture and sell boilers and radiators for steam and hot-water heating. During this length of time he has found it necessary to answer questions by architects and others with whom he has come in contact in regard to the various phases of the house-heating industry. In the present volume it has been his endeavor to incorporate in a concise way all the information that he has acquired during this period of practice. The book has been prepared with the end in view of affording architects an opportunity to become thoroughly informed as to modern methods of steam and hot-water heating.

STAIRCASES AND GARDEN STEPS. By Guy Cadogan Rothery. Full cloth, 245 pp. Size, 5×7 inches. Price \$1.50 net. New York: Frederick A. Stokes Co.

This work is the third in a series of volumes on the decoration and interior treatment of the house. In it the author has endeavored to show how the staircase developed in importance with the advance of art. The work has been done in a comprehensive way and the writer shows an unquestioned knowledge of his subject and its relation to the architectural treatment of the house. So much has been written on the subject of staircases that it has become one that most architectural readers will perhaps regard as having been already exhausted. Yet, Mr. Rothery has succeeded in imparting much interest to his discussion of the subject, has been able to incorporate many illustrations of staircases and details that are not of general knowledge. The work may, therefore, be said to be less hackneyed than some of its predecessors on a similar subject and worth reading, not only by the student but by the man in practice as well.

A SHORT CRITICAL HISTORY OF ARCHITECTURE. By H. Heathcote Statham. Full cloth, size 5×8 inches, 586 pp., with general index and many illustrations. Price \$3.75 net. New York: Charles Scribner's Sons. London: B. T. Batsford.

Books intended to serve as histories of architecture have multiplied so fast during recent years that it would seem as if no further facts could be deduced and whatever might be set down was simply the critical judgment of the various authors influenced more or less by the works that had preceded them. Yet, in this instance, it may be said that Mr. Statham has been able to successfully condense in the limitations of the present volume a very readable and very dependable critical analysis of the architecture of the various periods, and has further been able to secure to illustrate his text, a great many examples that are not hackneyed by reason of their having been many times previously shown in other works on this subject. He has also avoided the customary subdivisions into chapters dealing with special styles or with the architecture of a specially selected country. The absence of the limitation of chapters treating in each case specifically of certain period and style, has afforded the author an opportunity to digress where digression best serves the purpose of analysis, and to assume a literary style that is freer and more easily read than most works of an historical character, which always have to be regarded as more or less exact in statement and, therefore, suffering to some extent in their literary character. The work can be read with much satisfaction even if one has come to believe he has very thoroughly gone over the subject. We regard it as a valuable addition to the library of the working architect and also a helpful one to the student.

INDUSTRIAL INFORMATION

AMERICAN RADIATOR

The November issue of the *Ideal Heating Journal*, the house organ of the American Radiator Company, whose offices are in all principal cities, contains an article on "Methods of Testing Radiators," illustrations of buildings wherein recent important installations have been made and a large amount of technical information that will be found of interest.

This publication may be had by architects on application.

SELF-CLINCHING NAILS

The Self-Clinching Nail Company, 44 North Fourth Street, Philadelphia, Pa., have issued a pamphlet describing a self-clinching nail, which they state is especially valuable when used on hollow fireproof construction. This nail is a peculiar form of fastening device that operates in a way

THE AMERICAN ARCHITECT

to anchor itself automatically while being driven in hollow walls and other places inaccessible from the rear. It operates solely by utilizing pressure exerted by the hammer on the outer end of the nail. The top of the nail consists of a "driving stem" which protrudes through and above the washer-like head. When the head of the nail in driving has reached the face of the fixture it becomes stationary, while the stem being movable telescopes into the rest of the nail and operates to force the prongs apart, and thus providing, it is stated, a perfect clinch.

BELLS

The Meneely Bell Company, Troy, N. Y., have issued a pamphlet of more than usual interest and intended to place in possession of those considering the purchase of bells such facts as will be useful in guiding them to a proper selection. This company has made a specialty in the manufacture of bells for a number of years, and state that they have sent their product to every section of the United States, to South America, Europe, Asia and Africa. After describing and illustrating the various types of bells for various locations, the pamphlet concludes with a well-written and very interesting article on "Bells of All Periods and of All Times." It endeavors to trace their origin and gives in a brief way the history of many bells that have gained historical importance.

The pamphlet may be received on application.

MANTELS

The Alhambra Tile Company, Newport, Ky., have issued a pamphlet giving drawings in two elevations of a series of Alhambra Faience Tile Mantels, constructed of the tile made by this company. Accompanying is a reproduction in color of sixteen different colors of tiles of different texture that can be furnished in the construction of these mantels.

WINDOW AND DOOR SCREENS

The Watson Manufacturing Company, Jamestown, N. Y., are makers of screens for windows and doors, illustrated in a pamphlet just received. These all-metal screens are furnished in standard sizes or made to order to conform to specification. The company desire to communicate with architects with a view to demonstrating in a practical way the merits of these screens, and will send illustrated pamphlet and full particulars on request.

GRANITE

In a pamphlet issued by the Plymouth Seam Face Granite Company, Beacon Building, Boston, Mass., and 30 West 33d Street, New York, their product

is very thoroughly described and a number of important structures in which this granite has been used as a building material are illustrated. The quarries are in Plymouth and Weymouth Counties, about twelve miles south of Boston. A sample submitted for inspection indicates some unusual effects in coloring, the tints shown being golden hues, yellows, steel grays, russet brown and reds. The company claims that tests conducted by the Massachusetts Institute of Technology show an average crushing strength of 35,000 pounds to the cubic inch. They also state that this granite can be carved as successfully as marble, and that its fine texture and the small percentage of mica permit of a high and lasting polish.

The pamphlet referred to reprints numerous testimonials from architects high in the profession, who have used this granite as a building material for important work and who commend it for its color and its working qualities.

The quarriers will send a sample of the stone and the illustrated pamphlet above mentioned on request.

PLUMBING FIXTURES

A pamphlet recently issued by Haines, Jones & Cadbury Company, 1130 Ridge Avenue, Philadelphia, Pa., illustrates and describes a number of new designs in plumbing fixtures and accessories. The makers claim that in the designing of this line, which they place on the market under the trademark name of "Hajoca," they have endeavored to produce an article constructed of honest material, in a workmanlike manner, and one that will eliminate, as far as possible, the accumulation or retention of dirt or other matter that lodges in inferior plumbing and becomes a menace to those who use it. They will send the pamphlet referred to on application.

HOT WATER HEATERS

The Beler Water Heater Co., Pittsburgh, Pa., are manufacturers of hot water heaters for kitchen, laundry and bath room installation, illustrated in a recently issued pamphlet. Many advantages are claimed for this heater, the most important of which is that it can be operated on a very low gas consumption. These heaters consist of a long copper heating coil, encased in a cast-iron jacket, in which is set a battery of Beler burners. Opening a hot water faucet anywhere in the house causes the water pressure to turn on the gas, which is ignited from a small pilot light that burns constantly. The water is then heated as it passes through the coil on its way to the faucet. Closing the faucet automatically shuts off the gas. A thermostat regulates the temperature of the water, usually 140 degrees. Many other features are described in the pamphlet referred to, which may be had on application.



Residence of Thomas P. Barnett, of Barnett, Haynes & Barnett, Architects, St. Louis. Lined with Cabot's Quilt.

Make Your Buildings Frost - Proof

by lining them with

Cabot's "Quilt"

"QUILT" is not like common building papers. It is a matted lining full of dead air spaces and keeps out the cold in the same way that a bird's feathers do. It is forty times warmer (or cooler in summer) than the common cheap papers. It costs about 1 cent a foot and will pay for itself over and over again in saving fuel, and in protecting the family from discomfort and doctor's bills. *Send for samples and full information.*

SAMUEL CABOT, INC., Mfg. Chemists, Boston, Mass.
1133 BROADWAY, NEW YORK 350 DEARBORN AVENUE, CHICAGO

Cabot's Creosote Shingle Stains, Waterproof Cement and Brick Stains,
Conserve Wood Preservative, Dampproofing, Waterproofing.

Agents all over
the country

Terra-Cotta In Architecture

Modesty



ODESTY is an excellent trait, but it is easily carried too far. We are proud of our achievements in the manufacture of architectural terra-cotta and we frankly admit it. When we entered the field over a quarter of a century ago, people laughed at the idea of using terra-cotta in any great quantity in large buildings. To-day scarcely an important building is erected that does not contain some terra-cotta, and many buildings use terra-cotta exclusively. We do not claim the entire credit for this astounding revolution in the use of building materials. But we have been a most important factor and we are proud of it.

New York
Architectural Terra-Cotta
Company

Two Twenty-five Fifth Avenue
New York

Stanley's Ball Bearing BUTTS

INSURE

PERFECTLY HUNG DOORS

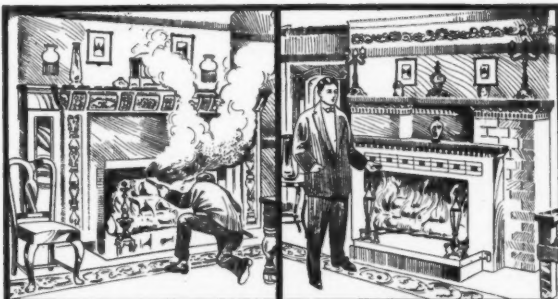
Friction is eliminated by the steel bearings, and the door swings smoothly and softly without creaking or binding. These butts have

NON-RISING PINS

which will not work out of the joint.
Write for artistic and instructive
booklet "Properly Hung Doors."

"DEPARTMENT 2A"

THE STANLEY WORKS, New Britain, Conn.



THE OLD WAY THE COLONIAL WAY
Can ALSO be operated from the END of Fireplace.
The HEART of the HOME is the FIREPLACE.
The BRAINS of the FIREPLACE are in the
COLONIAL HEAD-THROAT and DAMPER.

REASONS WHY you should SPECIFY The COLONIAL HEAD-THROAT DAMPER:

IT is the result of 20 years' experience devoted to Fireplace construction.
IT has PASSED the EXPERIMENTAL stage.
IT provides for EXPANSION and CONTRACTION.
IT is easily set and meets all conditions.
IT saves its entire cost in constructing the Fireplace.
ITS Damper Door and Operating Device may be easily removed AFTER BEING SET.
IT is Easily Operated—Controls the Draft—Saves Heat and Fuel.
IT prevents mistakes in constructing the MOST VITAL part of the Fireplace.
IT may be operated from the Face or End of Fireplace.

For more reasons and descriptive drawings
SEE SWEETS' INDEX Pages 1702-3, and A. B. C. CATALOG.
Send for Catalog F.

COLONIAL FIREPLACE COMPANY
CHICAGO

BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

BIRMINGHAM.—The Board of Revenue has passed a resolution authorizing the advertisement for bids on bonds to the amount of \$100,000 for the improvement and enlargement of the Hillman Hospital.

CALIFORNIA

BERKELEY.—Architect C. N. Cook, Rialto Bldg., San Francisco, has prepared plans for 1-story bank building to be erected for the Berkeley Savings Bank; cost, \$20,000.

GLENDALE.—Plans have been prepared by Architects Tuttle & Hopkins, Delta Bldg., Los Angeles, for 3-story bank building to be erected for First National Bank of Glendale. Figures will shortly be called for.

LOS ANGELES.—Architect Charles E. Shattuck, Mason Bldg., has completed plans for erection of a 2-story apartment house for H. P. Ernst.

Plans have been prepared by Architects Parkinson & Bergstrom, Security Bldg., for erection of a 5-story factory warehouse for Lord Motor Car Co.; cost, \$200,000.

LOS ANGELES.—Architect Lenard L. Jones is preparing plans for a 3-story and basement brick apartment house to be erected on Flower St. near Fifth St., for H. W. Wilcox.

Architects Mayberry & Parker are preparing plans for a seven-story storage warehouse to be erected on Arapahoe St. near Washington St., for the Fidelity Storage & Moving Co.

LOS ANGELES.—Architect Myron Hunt is preparing plans for the \$300,000 alterations M. E. Huntington will make to the unfinished Wentworth Hotel on Oak Knoll.

LOS ANGELES.—A handsome building will be erected soon on the corner of 5th and Grand Aves. by the Federation of College Women's Clubs of Los Angeles. The society will expend more than \$60,000 for the construction of an ornate class A structure.

I. W. Hellman, president of the Farmers' and Merchants' National Bank, has stated that it was his purpose to complete at an early date his group of business blocks in this city extending from the corner of Main and 4th Sts., with frontage on Spring St. The improvement proposed provides for a class A office structure similar to the ones fronting on 4th and Main Sts., and the outlay will be approximately \$500,000. Six to eight stories will be the height of the building.

OAKLAND.—Architect Clay N. Burrell, Albany Bldg., has prepared plans for a 3-story apartment house to be erected on Alice St., near 15th, for Sommarstrom Bros.; cost, \$40,000.

SACRAMENTO.—Plans have been completed for the \$200,000 building which will be erected on the corner of Fourth and J Sts. to house the fruit interests of the city and kindred businesses. Plans have been received by George W. Peltier, who was instrumental in promoting its erection. The building will be erected by a stock company, and will cost \$200,000.

The plans for the proposed Woman's building for the California State Fair Grounds have been prepared by State Architect John W. Woollett; cost, \$50,000.

SAN FRANCISCO.—Plans will be completed shortly and John C. Welsh, 1131 Guerrero St., will take figures for the erection of 3-story apartment house to cost \$20,000.

Architect William H. Crim, Jr., 425 Kearny St., has completed plans for 3-story warehouse to be erected by Nat Rafael; cost, \$60,000.

Plans have been completed by Architect C. A. Meussdorffer, Humboldt Bank Bldg., for a 2-story garage to be erected for Charles L. Tilden; cost, \$85,000. Plans are out for figures.

SAN FRANCISCO.—Bids for construction of a concrete building at the corner of Van Ness Ave. and California St. are being taken by Architects O'Brien Brothers, and work is to be started as soon as contracts are awarded. It is the property of the Bradbury Estate Investment Company. Cost, \$60,000.

A 3-story reinforced concrete building will be erected on the corner of Second St. and South Park for Nat Raphael. The property has been leased for a period of ten years to the Tobacco Company of California. Cost will be about \$55,000. William H. Crim, Jr., is the architect.

SAN FRANCISCO.—Plans are being prepared by Architect O. C. Vorce, Phelan Bldg., for erection of a 3-story apartment house.

Plans are being prepared by Architect Bernard J. Joseph, First National Bank Bldg., for a 5-story hotel to be erected for Daniel Biberio; cost, \$40,000.

SAN FRANCISCO.—Architect Albert Farr, Foxcroft Bldg., is preparing plans for a 7-story hotel, to be erected at cost of \$80,000.

Plans have been prepared by Architects William Curlett & Son, Phelan Bldg., for 8-story hotel annex to Argonaut Hotel, for Mary L. Phelan; cost, \$100,000. Figures will be called for shortly.

Architect Woodworth Wethered, 143 Second St., is preparing plans for a 5-story hotel to be erected on Post St., near Larkin, for J. G. Barker; cost, \$65,000. Figures will be taken shortly.

SANTA ANA.—A new church building to be erected at a cost of \$25,000 has been authorized by the congregation of St. John's Lutheran Evangelical Church at Orange.

CONNECTICUT

HARTFORD.—The high school building commission expects to call for bids for the erection of the new building about Feb. 1. The appropriation for the new building authorized at the last city election was \$450,000. William H. Scoville is chairman of building commission.

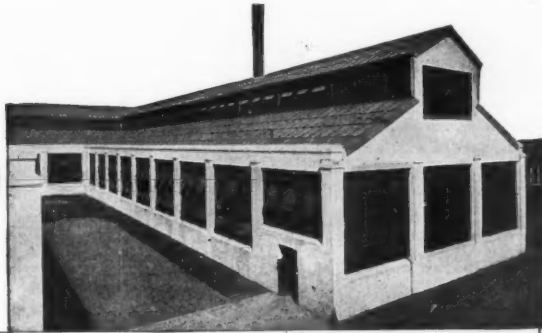
DISTRICT OF COLUMBIA

WASHINGTON.—As a result of a meeting of the Lincoln Memorial Commission, a memorial hall costing \$2,000,000 is to be erected here in honor of Abraham Lincoln. The commission is composed of President Taft, Senators Culom, Wetmore and Martin, Speaker Clark, Former Speaker Cannon and Congressman McCall.

FLORIDA

BUSHNELL.—Bids will be received at the office of the Clerk of the Circuit Court of Sumter Co., at Bushnell, until noon, the sixth day of January, 1913, for the construction of the Sumter County Court House and Jail buildings. Drawings may be seen at the office of the Clerk of the Circuit Court at Bushnell, Fla., and at the office of William A. Edwards, Archt., 632 Candler Bldg., Atlanta, Ga.

FORT MYERS.—Negotiations have just been closed whereby the local Lodge of Elks has acquired the Hartman property on 1st St., upon which it intends to erect new home. The plans call for a large 3-story pressed brick building, costing between \$15,000 and \$20,000.



Exterior
View
Nelson
Valve Co.

NELSON VALVE COMPANY

CHESTNUT HILL, PHILADELPHIA.

December 30th, 1911.

Detroit Steel Products Co.,
Detroit, Mich.

Gentlemen:-

We are very glad to give you our reasons for installing the Detroit Fenestra Steel Window Sash in our buildings and the result that has been gained by their use.

The making of first class valves requires good light, and lots of it; first, to enable our men to do good work; second, to facilitate quick and certain discovery of flaws in the castings or of defects in any of the parts. Our system of testing ultimately brings to light any fault that the most careful inspector will sometimes be unable to find, but it pays us largely to find the defect immediately, not only saving extra work on the bad pieces already made, but preventing the duplication of the trouble while it is yet in its infancy. Good light helps to do this. Hence, we installed Fenestra.

The result has been most gratifying. Our men not only do better work, but more of it; are happier, healthier and more contented. Inspection is, comparatively speaking, a pleasure. It is a saving to us in every department of our work.

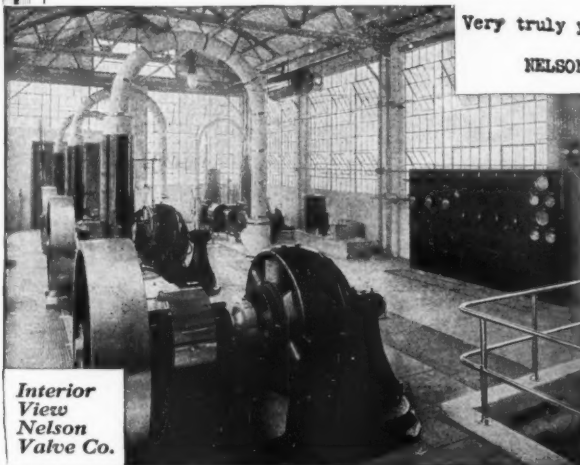
Our artificial lighting bill is less, as on these short winter days we can cut out the electrical illumination earlier in the morning and do not switch on until fully an hour later in the afternoon than we formerly did. The ventilation is all that can be desired.

Our average cost for this sash, glazed with $\frac{1}{8}$ " ribbed wire glass, erected in place complete, approximates 60 cents per square foot. The saving to us in figures would be impossible for us to give.

Very truly yours.

NELSON VALVE COMPANY.

J. K. Hamer
per J. H.



Interior
View
Nelson
Valve Co.

**"Our Men Do
Better Work—
More of It—
Are Happier,
Healthier,
and More
Contented"**

That quotation is the very heart of the letter from the Nelson Valve Co.

Apply the idea to your own factory. Think for a moment of the results in dollars and cents if your men did "better work, more of it" and were "happier, healthier and more contented."

**Light Your Factory
with**

Fenestra
**Solid Steel Windows
in Standard Sizes**
"Daylight for Factories"

The Nelson Valve Company is not an isolated instance. Their experience is typical. The Packard, Ford and Lozier among motor car makers; the Pennsylvania and New York Central among railroads; the American Radiator Co., the Simms Magneto Co., the American Colortype Co. among manufacturers—scores of industries of equal prominence and magnitude, have adopted

and are profiting by Fenestra.

Your course is clear—you must investigate Fenestra if you are sincerely interested in working toward 100 per cent efficiency—in obtaining the very greatest dividends from your plant.

Our engineering staff will be glad to consult with you and submit estimates. Give them the opportunity—soon. Write for Catalog A and Illumination folder.

Detroit Steel Products Company
Detroit, Michigan

JACKSONVILLE.—Congregation of the Riverside Baptist Church have decided to erect three buildings as a complete church plant at Park and King Sts.; estimated cost, from \$60,000 to \$75,000.

TAMPA.—The Elks have advertised for bids for erecting their new hall, which is to be a 5-story building, to cost in the neighborhood of \$100,000. The splendid structure is to be erected at the corner of Florida Ave. and Madison St., on the site of the present building. The bids will be opened by the building committee on the night of January 9.

ILLINOIS

CHAMPAIGN.—Illinois Methodists will spend \$100,000 at the University of Illinois in the erection of a building to be used as a social and religious center for Methodist students.

CHICAGO.—George H. Gazely is promoting the \$1,400,000 North Shore Hotel, to be built at Oak St. and Lake Shore Drive.

CHICAGO.—Architects Holabird & Roche, 1618 Monadnock Bldg., will erect a 17-story hostelry, to be known as the Fort Dearborn Hotel, at South La Salle and West Van Buren Sts. It has been leased by the Hotel Sherman Company.

Alexander Beifeld and Morris Hirsch have purchased the vacant property at the corner of West Sixteenth St. and Trumbull Ave., and 125 feet on Sixteenth St.; also the vacant property at the corner of West Sixteenth St. and Trumbull Ave. Messrs. Beifeld and Hirsch intend to improve the southeast corner with a modern store, office, flat and possibly include a theater building, to cost about \$40,000.

JOLIET.—Plans are now ready for the new \$3,500,000 model prison. State Architect W. C. Zimmerman designed the model after eight years' study.

INDIANA

EVANSVILLE.—It has been announced that the local Knights of Pythias lodges will erect a home here that will cost about \$25,000. Plans for the home will be drawn at once.

INDIANAPOLIS.—As a result of the competition conducted by the Fletcher Savings & Trust Company for the choice of an architect for the new 16-story bank and office building at corner of Pennsylvania and Market Sts., Electies D. Litchfield of New York has been selected. Mr. Litchfield is associated with the architectural firm of Tracy and Swarthout.

NEWCASTLE.—The Pennsylvania lines have purchased Lowe homestead in this city. The company, it was announced, will erect a new passenger station on the site next spring.

IOWA

DES MOINES.—A magnificent new theater building, located at the corner of Eighth and Locust Sts., will be opened about September 1, 1913, by Elbert & Getchell. Mr. and Mrs. Percy Coffee, who own the ground, will erect the theater building at an approximate cost of \$150,000.

KANSAS

TOPEKA.—In all probability the proposed Masonic Temple in Topeka will be erected on the corner of Tenth Ave. and Harrison St. The preliminary plans of the builders call for a structure that will cost \$250,000.

KENTUCKY

PINEVILLE.—R. F. Graf & Sons, of Knoxville, Tenn., have been engaged to make plans for a \$60,000 hotel building for the Continental Hotel Co. at Pineville. The hotel when completed and furnished will represent an outlay of about \$85,000. The same firm of architects will also plan a \$20,000 department store to be occupied by William

Birchfield, an office building for Dr. Grant Foley to cost \$15,000, a store building to cost \$6,000 and a residence to cost \$8,000.

LOUISIANA

NEW ORLEANS.—A. Monteleone, owner of the hotel of that name and other New Orleans enterprises, plans the erection of the most modern apartment houses in the South at St. Charles Ave. and St. Mary. Architects Toladano & Wogan, 830 Canal St., have already prepared plans. The structure will contain six stories and will cost not less than \$150,000.

NEW ORLEANS.—Three apartment houses are projected for St. Charles Ave. Jules Dreyfus will shortly let the contract for the erection of a 3- or 4-story building at Washington Ave. Anthony Monteleone is expected to call for bids for a 6-story structure at St. Mary St., and erection of a 10-story apartment house at Napoleon Ave. is proposed by A. Aschaffenburg and associates. All three enterprises are practical certainties.

Architects Nolan & Torre, 415 Hennen Bldg., have plans for additions and alterations to the John Lotz Bldg. on Conti, between Royal and Exchange Alley. Several thousand dollars will be expended.

PLAQUEMINE.—Bids will be received at the office of L. E. Messick, superintendent, until 1 o'clock Jan. 7, 1913, for the erection of a 3-story brick high school building for White Castle, in accordance with plans drawn therefor by Nolan & Torre, architects, 415 Hennen Bldg., New Orleans, La.

WHITE CASTLE.—Architects Nolan & Torre, 415 Hennen Bldg., New Orleans, have just furnished plans for a 3-story brick school building at White Castle, Parish of Iberville. New Orleans contractors will be asked to bid for this work.

MAINE

POLAND SPRING.—Hiram Ricker and his sons are planning to erect 3-story hotel for the exclusive use of chauffeurs.

MARYLAND

BALTIMORE.—Plans for alterations to the Merchants' National Bank are understood to be in preparation by Architects Parker, Thomas & Rice, Union Trust Bldg.

BALTIMORE.—The Loyal Order of Moose is having plans prepared by Architect J. E. Laferty, 11 Pleasant St., for a new building to replace their present home on West Fayette St., near Eutaw. The present plans call for a 3-story building. It is estimated that the cost of the building will amount to \$75,000.

A handsome new church, Sunday-school and parsonage will be erected by Franklin Street Memorial United Brethren Church, Franklin and Monroe Sts. The new structure will cost no less than \$22,000.

BALTIMORE.—The Can Company have had plans prepared for the erection of three buildings at Hudson, Boston and Luzerne Sts., to cost about \$350,000.

MASSACHUSETTS

BOSTON.—Plans have been completed by Architect T. Edward Sheehan, 945 Tremont Bldg., for the erection of new Ward 7 municipal building at Tyler and Oak Sts., at cost of about \$90,000. Bids will be advertised for at once.

Daniel Clark has sold to Joseph Segal the estates at 356-358 Harrison Ave., consisting of two 3½-story brick buildings and 1825 sq. ft. of land. Mr. Segal will construct a \$50,000 store and apartment building on the premises.

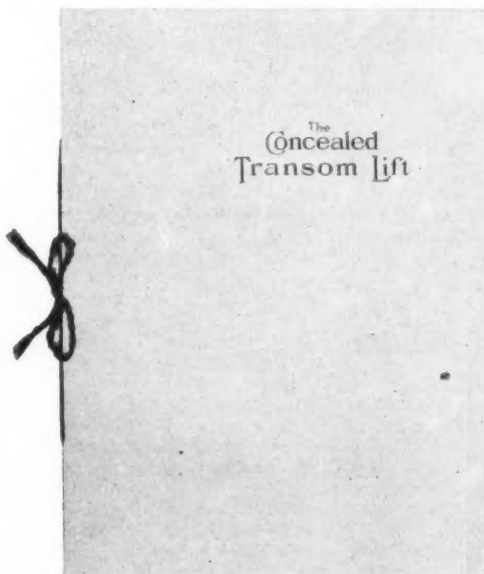
Plans for new buildings are now being made at Weyleyan. Stephen H. Olin, of New York City, chairman of the committees on grounds and buildings of the board of trustees, and Mr. Henry Bacon, of New York, who is advisory architect to the committee, has made a preliminary survey of the campus, with a view to determining the sites for the buildings.

The Concealed Transom Lift



Do you have a copy of

"The Concealed Transom Lift?"



This book is proving helpful to a great many architects in arranging details for the operation of transoms and borrowed lights. It contains full information relative to the construction and application of the

"Glenbell" Richmond Concealed Transom Lift.

You can also learn from it how some of the leading architects in the country have handled the question of transom control in some of the largest and most important buildings of recent construction.

We know that this book contains some valuable suggestions for you, and it is yours for the asking.

Concealed Transom Lift Co.

437 Fifth Avenue, New York
Peoples Gas Bldg., Chicago

Cut Out This Coupon for a Copy of "The Concealed Transom Lift."
CONCEALED TRANSOM LIFT COMPANY,
 437 Fifth Avenue, New York.
 Gentlemen:
 Please send me free of charge a copy of your catalog entitled "The Concealed Transom Lift."
 Name
 Address

Glenbell

BOSTON.—Preparations are being made by the New England Telephone & Telegraph Company to spend a half million dollars for the site and construction of a new Back Bay exchange. It has purchased site on Belvidere St., opposite the Mechanic Arts High School.

"Publicity House" will be the name of the structure which will house the Pilgrim Publicity Association. The building will be erected on Bromfield street and it will be ready for occupancy on Oct. 1, 1913. Carroll J. Swan is president of the association. A. H. Bowditch, 7 Water St., has been chosen as the architect.

Tentative plans have been formulated by the Rev. Herbert S. Johnson and the Rev. Frederick E. Heath for the erection of joint church edifice on Huntington Ave., for the Warren Avenue Baptist Church and Bowdoin Square Tabernacle.

HAVERHILL.—Proposals for erection of a Tuberculosis Building for the City of Haverhill, Mass., will be received at the office of the City Clerk until 2 o'clock on December 26, 1912. Plans may be obtained at the office of the architect, James H. Ritchie, 8 Beacon St., Boston, Mass.

MINNESOTA

DULUTH.—General specifications for the Robert E. Denfeld High School to be erected at West Duluth have been submitted by the building committee of the School Board to all the architects of the city for a competition in the drawing of the plans.

ST. PAUL.—St. Paul architects and St. Paul contractors alone will figure on the proposed construction of a half-million dollar plant in the Midway district by the Crex Carpet Company. This announcement has been made by Stanley G. Miller, the St. Paul manager.

The Great Northern road is planning to erect new elevator at the head of the lakes to cost \$1,000,000.

VIRGINIA.—The Hamm Brewing Company will replace the small building on its property at the corner of Chestnut St. and Central Ave. with a 3-story modern building. The proposed building will cost \$30,000.

MISSOURI

ST. LOUIS.—Plans have been completed and bids are being taken for the construction of the Jewish Home for Chronic Invalids on a fifty-acre tract on the east side of Fee Fee road in St. Louis County. It is said that the total cost will approximate \$200,000.

City Council has decided to erect new city jail on Fourteenth St. to cost \$250,000.

MONTANA

ANACONDA.—The local order of Elks are planning the erection of a brick temple. Architects will be asked to submit plans.

NEW JERSEY

ATLANTIC CITY.—Architects Stout & Reibenack, Bartlett Bldg., have prepared plans for the proposed Massachusetts Avenue School; estimated cost, \$185,000.

BAYONNE.—Bayonne will shortly have a handsome armory, according to an announcement made at the headquarters of Company I, Fourth Regiment, National Guard, New Jersey. Plans are now being drawn for a \$40,000 structure on Broadway between Thirty-third and Thirty-fourth Sts.

JERSEY CITY.—The Holt Manufacturing Company, of Stockton, Cal., has purchased 17 acres of meadow land on the old Plank Road between P. R. R. tracks and Hackensack River for the erection of concrete factory.

MORRISTOWN.—The local lodge of the Royal Arcanum has decided to erect large building on Washington St.

MILLBURN.—Plans for improvements to the Short Hills High School have been submitted to the Board of Education of Millburn by Architects Guilbert & Betelle, of New

York. The alterations as proposed in the plans would cost about \$24,000, it was figured.

NEWARK.—It is expected that ground will be broken on the corner of Washington and Grafton Aves. for a \$45,000 apartment building which will be owned by Louis Rosenbaum. Plans for the structure have been completed at the office of Edward V. Warren, 22 Clinton St.

Architect E. V. Warren, 22 Clinton St., has just finished plans for a 3-story brick 12-family apartment which Henry Schenck proposes to put up on the east side of Woodside Ave. between Elwood Ave. and Heller Parkway. The approximate cost is given as about \$20,000.

Architect Romolo Bottelli, 191 Market St., reports plans completed for five 3-story 3-family apartment buildings which Louis Kaplowitz contemplates putting up at 516 to 524 South Seventeenth St. Approximately \$25,000 will be expended.

Plans are out for a large 1-story brick structure which the Fairchild-Baldwin Co. contemplates erecting on the corner of New and Walsey Sts. at an estimated cost of about \$15,000. William E. Lehman, 738 Broad St., is the architect.

OCEAN CITY.—The City Commissioners have decided to ask for competitive plans for a city hall building at Ninth St. and Asbury Ave. It will be three stories high.

ORANGE.—Erection of new grammar school in rear of Orange High School and a 6-room addition to Park Avenue School have been authorized; cost, about \$160,000.

PERTH AMBOY.—The first business men's exchange or club building ever erected in Perth Amboy will be built by the Master Builders' Association in Maple St., near Jefferson St. Plans are now being completed by J. H. Jensen and G. W. Brooks, architects, at 98 Smith St. The structure will cost about \$12,000.

NEW YORK

BROOKLYN.—Plans for the erection of a \$150,000 factory building in Clermont Ave., near Atlantic Ave., have been filed in the Brooklyn Building Department by A. Schroder & Son, Inc. The structure will be of brick and seven stories in height.

BROOKLYN.—A. B. Gordon will erect 12 3-story brick dwellings, to cost \$7,500 each, a total of \$90,000; four on Potter Ave., four on Theodore St., north of Potter Ave.; four on Purdy St., north of Potter Ave.

BROOKLYN.—Work will shortly be commenced upon a new wing of the Brooklyn Institute Museum on the Eastern Parkway. This addition will involve the expenditure of \$420,000.

Plans have been filed with the Department of Buildings for the new Brooklyn Union Gas Company's building to be erected on the south side of Remsen St. west of Court St. It will cost about \$400,000. The building will be seven stories high. Frank Freeman, of 132 Nassau St., New York City, is the architect.

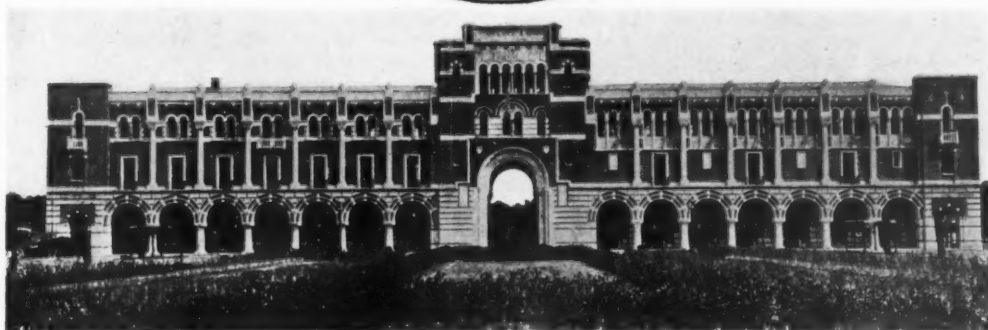
ILION.—The Remington Arms & Ammunition Company is preparing for the erection of a new building in connection with its plant. The plans call for a building 3-stories high, to be used for additional manufacturing.

NEW YORK CITY.—Architect H. L. Young, 1204 Broadway, has filed plans for a 6-story apartment to be erected on Fort Washington Ave., corner of 162d St., for Friedman Construction Co., 171 Broadway; cost \$350,000.

Plans have been filed by Architect Louis A. Sheinart, 194 Bowery, for a 1-story brick store to be erected on 137th St. for Jacob & Isaac Kaufman, 206 Division St.; cost \$10,000.

Architects Goldner & Goldberg, 391 E. 149th St., have filed plans for two 5-story brick stores and apartments to be erected on Southern Boulevard for Oval Construction Co. (Samuel Brever, Westchester Ave., Pres.); cost \$100,000.

HYDREX PRODUCTS



RICE INSTITUTE, ADMINISTRATION BLDG., HOUSTON, TEX.

MESSRS. CRAM, GOODHUE & FERGUSON, Architects, Boston.

Foundation waterproofed with three layers Hydrex Felt cemented together with Hydrex Compound.

HYDREX WATERPROOFING FELT

The acknowledged standard, high-grade waterproofing felt for underground work—foundations, subways, tunnels, retaining walls, swimming pools, reservoirs, etc. Cemented together in several layers with hot "Hydrex" Compound, it forms the basis of the non-conducting and electrolysis-proof "Membrane Method" of waterproofing used in the largest and most important structural work throughout the world.

The Hydrex Felt & Engineering Co.

Makers of Waterproof Felt, Building Papers, Deadening Felt, Roofings, Paints, Etc.

CHICAGO: 127 So. Michigan Ave.
WASHINGTON: Colorado Bldg.

120 Liberty Street, New York

FACTORIES:
RAHWAY, N. J.

Repeat Orders Tell The Story

When Strawbridge & Clothier made the latest extension to their mammoth retail establishment in Philadelphia they specified that the property was to be protected by



Why did they put in sprinklers at all? Why, electing sprinklers, did they choose Grinnells? If you examine the evidence you might be pardoned for calling it a *habit*, as an answer to both questions, but the reasons lay deeper than that.

Ever since the first installation of 800 Grinnell heads was made, in 1886, all extensions and new

buildings of S. & C. have been fitted with Grinnells,* until now there are more than 8000 heads, installed on twenty-one separate orders—*repeat* orders, based on satisfaction with service.

**Except in one case, where another type of sprinkler was fitted. This digression was not repeated.*

GENERAL FIRE EXTINGUISHER COMPANY

PROVIDENCE, R. I., and Principal Cities

Send today for your copy of *Automatic FIRE Protection*. It shows the "Why."

40-123

Plans have been filed by Architect J. Fisher, 25 Avenue C, for alterations to a 4-story loft on 4th St. for M. Marder, 784 Kelly St.; cost \$18,000.

NEW YORK CITY.—Architect R. Rohl, 128 Bible House, has filed plans for alterations to 1-story garage on Fifty-fourth St. for Henry Elias Brewing Company, 403 E. Fifty-fourth St.; cost, \$6,000.

Announcement has been made by the Salvation Army that Miss Eva Booth, the commander, had decided to include in the memorial to be erected to the memory of her father, Gen. William Booth, several additional buildings in this city and Chicago. One of the most important will be an annex to the New York Rescue Home for Women on East Fifteenth St.; estimated cost, \$50,000.

NEW YORK CITY.—Architect C. S. Clark, 441 Tremont Ave., has filed plans for alterations to 4-story loft on Twenty-ninth St. for F. Wagner, 325 E. Twenty-ninth St.; cost, \$30,000.

Plans have been filed by Architects Ludlow & Peabody, 12 W. Thirty-first St., for alterations to 16-story office building on Broadway for Broadway Realty Company; cost \$15,000.

Architect Maximilian Zipkes, 220 Fifth Ave., has been commissioned by the Middle Bronx Realty & Construction Company to draw plans for the whole block front of E. 178th St., from Mapes to Prospect Ave., which will be improved with three high-class apartment houses. The architect estimates the cost at \$250,000.

Architects Nast & Springstein, 21 W. Forty-fifth St., have filed plans for a 9-story apartment to be erected on Forty-ninth St. for Maze Realty Company, 2650 Broadway; cost, \$150,000.

Plans have been filed by Architect G. F. Pelham, 507 Fifth Ave., for a 6-story apartment to be erected on 171st St. for Fair Deal Realty Company, 117 W. 110th St.; cost, \$50,000.

Architect M. W. Del Gaudio, 401 Tremont Ave., has filed plans for a 6-story brick apartment to be erected on 172d St. for William McCarthy, 3919 Third Ave.; cost, \$60,000.

Plans have been filed by Architect C. E. Corby, 621 Broadway, for alterations to 2-story carhouse on Ninth Ave., corner Fifty-fourth St., for New York Railways Company, 165 Broadway; cost, \$20,000.

The plans for the \$8,000,000 hotel at the Pennsylvania R. R. Terminal Station, Thirty-third St. and Seventh Ave., New York, are being drawn by Architects McKim, Mead & White, 160 Fifth Ave., who designed the station. The plans are well under way.

NEW YORK CITY.—A large theater is planned for the west side of Sherman Ave., south of 207th St., in the Dyckman section, by R. Clarence Dorsett.

Plans for the 11-story apartment house to be erected on the northwest corner of Madison Ave. and Sixty-eighth St., have been filed by Architect Herbert Lucas. The 11 East Sixty-first Street, Inc., Herbert Lucas, president, is the owner. The cost has been estimated at \$500,000.

NEW YORK CITY.—Architect A. S. Hedman, 371 Fulton St., has filed plans for a 2-story garage to be erected on Avenue D, corner of Twentieth St., for J. U. Beekman, 88 Wall St.; cost, \$25,000.

Plans have been filed by Architect E. Roth, 507 Fifth Ave., for a 6-story apartment building to be erected on 141st St. for Ess En Construction Co., Inc., 247 W. 127th St.; cost, \$200,000.

Architects G. & E. Blum, 505 Fifth Ave., have filed plans for a 4-story loft to be erected on Forty-first St. for Maude Adams Kiskaddon, 15 E. Forty-second St.; cost, \$25,000.

Plans have been filed by Architect C. W. Buckhan, 307 Fifth Ave., for 21-story store and apartment hotel to be erected on Fifty-ninth St. for A. S. Cochran, Yonkers, N. Y.; cost, \$600,000.

The American Tobacco Company has leased the vacant property, 533, 535 and 537 W. Twenty-second St. The owner is to start immediately the erection of a fireproof warehouse on this site.

Plans have been filed by Architect Charles Schaefer, Jr., Co., 401 Tremont Ave., for two 5-story brick apartments to be erected on 156th St. for Benjamin Benenson, 407 East 153d St.; cost, \$100,000.

ROCHESTER.—The members of the Damascus Shrine have decided to erect new mosque to cost about \$20,000.

ROCHESTER.—The trustees of the Brighton District School 7 have decided to erect a temporary school building on the site of the one that was recently burned down, and to request architects to submit plans for a new permanent structure.

SCHENECTADY.—Plans calling for the improvement of two pieces of real estate in Schenectady are being completed by L. Rodman Nichols, architect. One of these is for a new laundry to be built by E. A. Gasne at Nos. 741-743 Albany St., opposite Paige St. The other is the remodeling of the dwelling at No. 172 Lafayette St., for Isaac Hough.

SYRACUSE.—Plans have been made in the office of Architects Taber & Baxter, O. C. S. Bank Bldg., for a brick building to be erected at James St. and Peck Ave. by Capt. Frank Boyer, which will include a theater. Facing on James St., the block will contain two stores and two apartments, and the theater will open in Peck Ave. Cost \$18,000.

SYRACUSE.—Plans have been prepared by Architect A. L. Brockway for erection of 4-story modern fireproof hotel to cost \$50,000, by Syracuse capitalists, represented by Attorney Oliver D. Burden.

TROY.—Miss Alider Van Schoonhoven has donated \$50,000 for the erection of an additional building at the Samaritan Hospital.

NORTH CAROLINA

RALEIGH.—The Raleigh Improvement Company, just organized, has purchased the lot at Wilmington and Edenton Sts., facing Capital Sq., as the site for the new \$150,000 apartment house the company is to erect at once. The building will be 8 stories high.

OHIO

HAMILTON.—Bids will be received at the office of the General Secretary of the Y. M. C. A., Hamilton, up to 12 o'clock noon, January 11, 1913, for the erection of a 4-story concrete building for the Hamilton Y. M. C. A. Frederick G. Mueller is architect.

TOLEDO.—The Toledo Metal Furniture Company has had plans prepared for a thorough rebuilding of their plant; estimated cost, \$75,000.

A new factory building to be 2 stories high is to be shortly erected by the B. A. Stevens Co., at the corner of Erie and Locust Sts. Bids for the building, which will cost approximately \$20,000, now are being received by the company.

TOLEDO.—A \$175,000 building for the exclusive use of physicians, surgeons and dentists, is to be erected at Adams and Huron Sts. by the Castleton Co. Plans are being prepared.

OREGON

PORTLAND.—Architects Emil Schacht & Sons, Commonwealth Bldg., have been commissioned to prepare plans for a 4-story factory for the Nicolai Door & Lumber Company.

PENNSYLVANIA

HARRISBURG.—The Eagle Home Association has been organized and are planning the erection of a \$20,000 home. The building committee consists of H. O. Holstein, Arthur Freeland, E. C. Blough, G. E. Gousling, John Porter and George Kobler.



42-STORY L. C. SMITH BUILDING
Seattle, Wash.
GAGGIN & GAGGIN Architects The WHITNEY CO. Contractors



The MARVEL of the WEST

The 42-Story L. C. Smith Building, Seattle, Wash., now in construction, will be watched by architects and engineers with more interest than, perhaps, any other building. Instead of the usual caissons, it will rest on 1276 concrete friction piles. The superstructure will be steel and concrete, with concrete floors. The building is to be faced with white terra cotta tile which will be set and backed with

ATLAS-WHITE

Portland Cement, because of its whiteness and absolute non-staining properties.

"The standard by which all other makes are measured"

THE ATLAS PORTLAND CEMENT CO.

30 BROAD ST., NEW YORK

Morris Bldg. Philadelphia, Pa. Corn Exch. Bank Bldg. Chicago, Ill.

Productive capacity over 50,000 barrels per day — Largest in the World.

EUREKA LINEN FIRE HOSE



OUR TWO LEADING BRANDS ARE

EUREKA BEST AND EUREKA 20th CENTURY LINEN

Eureka Linen Hose is all circular woven, and not flat woven, like most other makes of Linen Hose. Eureka Linen Hose is made on circular looms, in which the warp strands are held in circular form and converge into a circle the size of the hose being woven, in the center of the loom, and the filling is continuously wound into that circular warp shed, so that the hose is woven in precisely the same expanded form that it assumes while it is being used.

We Invite Inquiries for Prices and Samples.

Eureka Fire Hose Mfg. Co., New York

Atlanta, Ga.
Boston, Mass.
Chicago, Ill.

Columbus, Ohio
Kansas City, Mo.
Denver, Colo.

Minneapolis, Minn.
Philadelphia, Pa.
San Francisco, Calif.

Spokane, Wash.
Syracuse, N. Y.

PHILADELPHIA.—Architect Charles E. Oelschlager, Harrison Bldg., has prepared plans for a 4-story commercial building, to be erected on the northeast corner of Twelfth and Winter Sts. The building will be of brick.

PHILADELPHIA.—An 8-story warehouse, to cost \$100,000, will be erected for William H. Maule on the corner of Twenty-first and Arch Sts. A tower fire-escape will be provided, the entire building to be constructed of brick. Hayes, Roberts & Rehfuß, 26 South Fifteenth St., are the architects.

Architect Barton Keen, 1218 Chestnut St., is preparing plans for a \$50,000 residence which Henry S. Bromley will erect on Wissahickon Ave., near Carpenter St.

Architect George E. Savage, Witherspoon Bldg., is designing a United Presbyterian Church and Sunday school building at Sixty-seventh St. and Paschall Ave.

PHILADELPHIA.—Architect Horace Trumbauer, Land Title Bldg., is preparing revised plans for the colored branch of the Young Men's Christian Association at 1720-26 Christian St.

Architects Furness, Evans & Company, Provident Bldg., are preparing plans for a 12-division public school to cost \$60,000 at Ardmore.

PHILADELPHIA.—Architect B. J. Medoff, 518 Spruce St., is designing a 3-story factory at the southwest corner of Seventh and Green Sts., for the Diamond Knitting Mills. The cost will be \$25,000.

Architects Rankin, Kellogg & Crane, 1012 Walnut St., are preparing plans for a three-story factory at Tioga and C Sts., for the Budd Manufacturing Company, manufacturers of steel automobile bodies. The cost will be upward of \$100,000.

Senator Edwin H. Vare has purchased the Kindig Horse Bazaar at Nos. 3915 to 3910 Market St., and, it is understood, intends to erect there an ash-handling plant similar to the one he has on Race St., below Twelfth.

Ground at Forty-seventh St. and Lancaster Ave. has been purchased by the Shanahan Catholic Club as the site for its new club house and, according to officials of the organization, a structure to cost not less than \$20,000 is to be erected. Plans for the building have not yet been made.

PITTSBURGH.—Plans are being prepared by Architect Nirdlinger, Diamond Bank Bldg., for three dwellings to be built on William Pitt Blvd., near Middleton St., Squirrel Hill, for C. J. Keller, the houses, exclusive of the ground, to cost about \$18,000.

SCRANTON.—Church building will be erected next spring by the St. John The Baptist German Catholic parish at S. Main Ave. and Luzerne St., plans for which are being made by Architect Lewis Hancock, Coal Exchange Bldg. Rev. F. A. Fricker is rector of the parish.

RHODE ISLAND

NEWPORT.—Architect Horace Trumbauer, of Philadelphia, is designing a handsome villa, to cost \$500,000, which Mrs. George D. Widener will erect on Bellevue Ave., Newport. The villa will be of stone and of fireproof construction, and will stand on the Bell and Greene estates.

PROVIDENCE.—Erection of 18 to 23-room school house on site of present school on Bridgeham St. has been authorized.

TENNESSEE

CHATTANOOGA.—Z. C. Patten has purchased site at Sharp's Corner, Ninth St. and Georgia Ave., and is planning to erect large building to be known as the Volunteer Bldg.

LEBANON.—Board of stewards of the Methodist Episcopal Church, South, has decided to tear down the old house of worship and build a new one at a cost of about \$30,000. Rev. B. H. Lyle is pastor.

TEXAS

DENISON.—The proposed issuance of \$100,000 for the erection and equipment of a new high school building has been carried. Plans and specifications for the building have already been prepared and will be passed upon in a short time.

DUBLIN.—The Board of Trustees of the Dublin Independent School District has selected M. L. Wallert, architect, of Fort Worth, to plan the new city school building, to cost \$48,000, which the board is to erect as soon as all arrangements are completed. J. H. Latham is president of the board and J. W. Dunlap is secretary.

FORT WORTH.—J. C. Ingram will erect 6-story hotel or office building on Commerce St. between 10th and 11th Sts.

PARIS.—Postmaster J. J. Dickerson has received the plans and specifications for the new annex to the post office building, for which an appropriation of \$100,000 was made by Congress some time ago. The contract is to be let Jan. 8.

VIRGINIA

NORFOLK.—A fine apartment house will be erected by F. M. Killam at Graydon Court and Colley Ave. Plans have been filed by Ferguson, Calrow & Taylor, architects, Law Bldg. Work on the apartment will be started soon. The cost will be around \$50,000.

WEST POINT.—Miss Katherine Moore is having plans made for a large hotel to be built in what is known as the "Oak Grove" plot in Euclid Heights. Miss Moore will also build a pretty bungalow on the rear of the hotel lot, facing the new street, which runs from the county road to Southern Ave.

WASHINGTON

SEATTLE.—Architect David J. Meyers, Central Bldg., is preparing plans for a 2-story church edifice to be erected by the Westminster Church; cost, \$50,000.

TACOMA.—The finest railroad station west of St. Louis will be built at once on Pacific Ave. by the Chicago, Milwaukee and Puget Sound Railway. It will cost \$500,000 or more. Appropriation has been made at the request of President Earling of the Milwaukee system. Plans are being hurried to completion by Chicago architects.

WALLA WALLA.—Architects Osterman & Siebert, of Walla Walla, are preparing plans for a group of factory buildings for the Brown-Lewis Mfg. Company; cost, \$500,000.

WISCONSIN

MILWAUKEE.—W. Stark, proprietor of the Plankinton House barber shop, will erect a \$150,000 hotel there next spring.

CANADA

VANCOUVER, B. C.—Architect H. S. Griffith, Dominion Trust Bldg., who is preparing plans for the \$350,000 Y. M. C. A. building to be erected on Georgia and Burrard St., has announced figures for general contract will be received shortly.

The B. C. Telephone Company will erect a 5-story office and warehouse on corner of Yukon and Front Sts. Cost, \$100,000. Plans will be ready for figures shortly.

VANCOUVER.—Architects Parr, McKenzie & Day, of Vancouver, are preparing plans for a 7-story warehouse to be erected for the Canadian Fairbanks-Morse Co.; cost \$200,000.

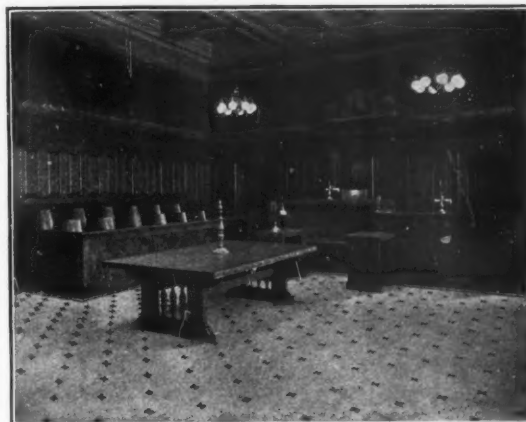
VICTORIA.—Architect Wm. Frederick Gardiner, Hartney Chambers, Vancouver, B. C., will call for bids shortly for construction of a 3-story apartment building to be built on corner of Cook and Leonard Sts. for Dr. A. Pallant, London, England.

Alphabetical List of Advertisers

Ads. marked E. O. W. appear every other week.
Ads. marked O. A. M. appear once a month.

A		L	
Adler, The J., Gilding Co. (o.a.m.)	22	Lee Marble Works (o.a.m.)	20
American Blower Co.	25	Loomis-Manning Filter Co.	19
American Luxfer Prism Co.	2	Lufkin Rule Co.	38
American Mason Safety Tread Co.	20	Lupton's, David, Sons Co.	38
American Radiator Co. (e.o.w.)			
American Sheet & Tin Plate Co. (o.a.m.)	29	M	
American Steel & Wire Co.	26	McCray Refrigerator Co.	21
Art Metal Construction Co.		Maddock's, Thomas, Sons Co. (e.o.w.)	30
Artesian Well & Supply Co. (e.o.w.)		Majestic Furnace Co.	24
Atlantic Terra Cotta Co. (e.o.w.)		Marsh Valve Co.	
Atlas Portland Cement Co. (e.o.w.)	15	Merchant & Evans Co. (e.o.w.)	26
Automatic Refrigerating Co.	36	Moss Photo Engraving Co.	32
		Mueller, H., Mfg. Co. (e.o.w.)	22
B		Mullins Co., The W. H.	
Barrett Mfg. Co.	20	Murphy Varnish Co. (o.a.m.)	
Bayley & Sons (e.o.w.)			
Berger Mfg. Co.	24	N	
Best Bros. Keene's Cement Co.		National Fire Proofing Co.	19
Bird, F. W., & Son (o.a.m.)		National Lead Co.	42
Bonnell Iris Aggregate, Inc. (o.a.m.)		National Roofing Tile Co.	20
Boyle, John, & Co., Inc.	21	National Tube Co.	20
Bradford Pressed Brick Co.	44	National X-Ray Reflector Co. (e.o.w.)	29
		Never-Split Seat Co.	7
C		New York Architectural Terra Cotta Co.	17
Cabot, Samuel, Inc.	7	New York Belting & Packing Co. (e.o.w.)	25
Cahill Iron Works.	26		
Campbell, Walter M.	18	Northern Pine Mfrs. Assn. (e.o.w.)	
Carpenter, Geo. B., & Co.	30	Northwestern Expanded Metal Co.	
Carter White Lead Co.	27	Northwestern Terra Cotta Co.	
Cement Products Exhibition Co.	27		
Crow, James B., & Sons (e.o.w.)	11	O	
Colonial Fireplace Co. (e.o.w.)		Ohio Blower Co.	20
Concealed Transom Lift Co.		Okonite Co. (e.o.w.)	
Condron Co.	43	Otis Elevator Co. (e.o.w.)	
Corbin, P. & F. (e.o.w.)	52		
Corrugated Bar Co. (e.o.w.)		P	
Crittall Casement Co.	20	Peaslee-Gaulbert Co.	20
Cudell, F. E. (e.o.w.)		Peerless Rubber Mfg. Co. (o.a.m.)	29
Cutler Mail Chute Co.		Pfau Manufacturing Co., The (e.o.w.)	28
		Pierce, Butler & Pierce Mfg. Co. (e.o.w.)	20
D		Pomeroy, S. H., Co., Inc. (o.a.m.)	31
Darby, Edw., & Sons Co., Inc. (e.o.w.)	21	Pratt & Lambert.	
Decorators Supply Co. (e.o.w.)	24	Prescott, J. B., & Son.	
Derby Desk Co. (o.a.m.)	9		
Detroit Show Case Co. (o.a.m.)	22	R	
Detroit Steel Products Co.	19	Reliance Ball Bearing Door Hanger Co. (o.a.m.)	23
Dexter Bros. Co.	33	Richards-Wilcox Mfg. Co. (e.o.w.)	34
Dixon Crucible Co., Jos.	26	Royal Ventilator Co. (e.o.w.)	
Drouvé, G., Co. (e.o.w.)		Russell & Erwin Mfg. Co. (o.a.m.)	
Dunning, W. D.		Ruud Mfg. Co. (e.o.w.)	
		S	
E		Samson Cordage Works.	52
Elevator Supply and Repair Co. (e.o.w.)	52	Sargent & Company (e.o.w.)	37
Erkins Studios, The.		Schreiber & Sons Co., The L.	20
Estey Organ Co. (e.o.w.)	15	Silver Lake Co. (e.o.w.)	22
Eureka Fire Hose Co. (e.o.w.)		Simonds Heating & Specialty Co.	20
		Smith, H. B., Co. (o.a.m.)	18
F		Society of Beaux-Arts Architects Sprague, Douglas, and Associate, (e.o.w.)	
Falkenhainer, E.	18	Standard Regulator Co.	
Federal Terra Cotta Co. (o.a.m.)		Standard Varnish Works (e.o.w.)	20
Fischer-Sweeney Bronze Co. (e.o.w.)		Stanley & Patterson.	7
Fiske & Co.	21	Stanley Works, The (e.o.w.)	18
French & Co., Samuel H.		Sturtevant Co., B. F.	
		Syracuse University.	
G		T	
General Electric Co. (e.o.w.)	51	Taylor, N. & G., Co. (o.a.m.)	48
General Fire Extinguisher Co.	13	Thorp Fire Proof Door Co.	39
General Fireproofing Co.	34	Tiffany Studios.	32
Gillespie & Son, Chas. H. (e.o.w.)	25	Toch Brothers.	49-50
Gillis & Geoghegan (e.o.w.)		Trenton Pottery Co.	21
Globe Ventilator Co.		Trussed Concrete Steel Co.	
Gorham Co. (o.a.m.)	19	Turner Construction Co.	
Granger Co., A. D.	19		
Great Western Pottery Co.	20	U	
Grueby Faience and Tile Co.		U. S. Gypsum Co.	19
Gurney Heater Mfg. Co.		U. S. Mineral Wool Co.	45
		U. S. Radiator Corporation.	18
H		University of Illinois.	18
Hart & Hegeman Mfg. Co., The.	25	University of Michigan.	18
Heaton, Butler & Bayne.		University of Pennsylvania.	
Heinicke, H. R., Inc. (e.o.w.)	22		
Hess Warming & Ventilating Co. (e.o.w.)	21	V	
Higgins & Co., Chas. M. (e.o.w.)	21	Vaile & Young.	20
Hunt, Robert W., & Co.	52		
Hydrex Felt and Engineering Co.	13	W	
		Wadsworth, Howland & Co., Inc. (o.a.m.)	22
I		Warner Co., Charles (o.a.m.)	18
Imperial Bracs Mfg. Co.	19	Washington University.	18
Industrial Engineering Co.	21	Weisz, G. A.	27
International Window Mfg. Co.		Western Electric Co. (e.o.w.)	19
		White Co., David (e.o.w.)	21
J		White Fireproof Construction Co.	
Jackson, Wm. H., Co. (e.o.w.)		Winkle Terra Cotta Co. (o.a.m.)	41
Jacobson & Co.	52	Wolf, L., Mfg. Co.	
Jenkins Bros.	33-35		
Johns-Manville Co., H. W.		Y	
		Yale & Towne Mfg. Co., The.	47
K		Yellow Pine Mfrs. Ass'n (e.o.w.)	
Kahn System of Reinforced Concrete.	49-50		
Kawneer Mfg. Co.	31		
Keasbey & Mattison Co. (e.o.w.)			
Kelly Island Lime & Transport Co.	22		
Kelly, Thos., & Bros. (e.o.w.)			
Kennedy, David, Inc. (e.o.w.)			
Kewanee Boiler Co.			
Kimball Co., W. W. (e.o.w.)			
Kinnear & Evans.			

Floor Perfection



COURT ROOM, CUYAHOGA COUNTY COURT HOUSE, CLEVELAND, OHIO.

The maximum of service, the pleasing artistic appearance, elimination of noise; non-slippery and sanitary features all combine to make

"Double Diamond"



Interlocking Rubber Tiling

the ideal floor for the following class of buildings:

Residences	Theatres
Churches	Court Houses
Banks	Clubs
Office Buildings	Hospitals
Libraries	Hotels

You are invited to write for samples and catalogue "D" of color suggestions.

New York Belting & Packing Co.

Original Manufacturers

91-93 Chambers Street, New York City

Boston	Pittsburg	Chicago
Philadelphia	St. Louis	San Francisco

University of Pennsylvania Courses in Architecture

1. A four-year course, leading to the degree of B.S. in Arch. An option in architectural engineering may be elected.
2. Graduate courses of one year permitting specialization in design, construction or history; leading to the degree of M.S. in Arch.
3. A Special two-year course for qualified draftsmen with options in design or construction. Leading to a professional certificate.

For catalogue giving complete information regarding requirements of admission, advanced standing, summer school and stellar work, fellowships and scholarships, and for illustrated year book, etc., address DEAN OF THE COLLEGE, University of Pennsylvania, Philadelphia, Pa.

Perspectives Rendered

In Pen and Ink and Water Color
WALTER M. CAMPBELL
8 Beacon Street, BOSTON, MASS.

Draughtsmen's Blouses
\$1.50 Sent prepaid on receipt of
State Height and Weight **\$1.50**
E. Falkenhainer, 25 W. 42d St., New York

A Free Course in Architectural Design

conducted by

The Society of Beaux Arts Architects

Seventeenth Season—Aug. to July, inclusive
The Course is open to draughtsmen and students of architectural schools in any city of the United States or Canada, modeled on the principles of instruction at the Ecole des Beaux Arts in Paris. It consists of thirty-five (35) competitions divided into two classes supplemented by prize competitions, to enter any of which an annual Registration Fee of \$2.00 is required. Address applications for circulars of information and calendars for season 1911-12 to:

William Emerson, Chairman,
Committee on Education,
281 Fifth Avenue, New York City.

University of Michigan

DEPARTMENT OF ARCHITECTURE

Four-year courses in Architecture and Architectural Engineering. Two-year course for special students. For information, address Department of Architecture, University of Michigan, Ann Arbor, Michigan.

COLLEGE OF FINE ARTS SYRACUSE UNIVERSITY

Department of Architecture

Four year course in Architecture leading to the degree of B.A.R. Special two-year course for students who have had two or more years of office experience. For bulletin and information, address Registrar, Syracuse University, Syracuse, N. Y.

University of Illinois

Department of Architecture

Four-year courses in Architecture and in Architectural Engineering. (Degrees B. S. in Arch., and B. S. in Arch. Eng.)

Graduate work in Design or Construction. (Degrees M. S. in Arch., and M. S. in Arch. Eng.) Graduate scholarships and fellowships, including the Francis J. Plym Traveling Fellowship available.

Catalogue giving information regarding entrance, advanced credit, description of the courses of study, etc., and illustrated year book may be had by applying to the Department of Architecture, University of Illinois, Urbana, Ill.

Rendering of Perspectives in any Medium

Drawing of Perspectives

G. A. Weisz, 1123 Broadway, N.Y.

Telephone, Madison Sq. 3633

Washington University

ST. LOUIS, MISSOURI

SCHOOL OF ARCHITECTURE

Four-year course in Architecture with degree of B.S. Two-year course in Design with certificate. Course in Architectural Engineering. Special students received. For further information address JOHN BEVERLEY ROBINSON, Professor of Architecture.

RATES for Classified Advertising

Positions Wanted, 50 cents for 50 words or less; Help Wanted, Special Notices, Competitions, Proposals, Etc., 20 cents a line, minimum four lines. Copy received until 12 m. Monday. Remittance should accompany copy.

POSITIONS WANTED

ARCHITECTURAL OFFICE MANAGER, specification writer and general superintendent wants position, thoroughly experienced in best class of work. Address 29B, care The American Architect. (1929-30)

COMPETENT ARCHITECTURAL DRAFTSMAN, with many years of practical experience, well up in all branches of the profession, including perspectives, is open for a permanent or temporary connection in or outside of New York City. Address 29E, care The American Architect. (1929-30)

COLUMBIA GRADUATE ENGINEER (37)—Experienced practical man in all kinds of building construction, capable of taking entire charge of designing, working drawings, details, checking foundations, reinforced concrete, structural steel, ornamental iron, general architectural, desires position; \$22.00 per week, or temporary assistance. Designer, 3525 Broadway, New York. (1930)

SUPERINTENDENT AND DRAUGHTSMAN (28) desires position as either, or clerk-of-works; 10 years practical experience on all classes of work with leading New York architects. Rapid, careful draughtsman; good on full size and scale details and specifications. Best of references concerning ability and character. Will go anywhere. Salary \$35.00. Address 30B, care The American Architect. (1930)

GRADUATE of American University and of Ecole des Beaux Arts, experienced designer, with some practical experience, familiar with structural steel, rendering, ornament, perspective, desires steady position at general draughting. Location immaterial. Address 30C, care The American Architect. (1930)

DRAUGHTSMAN—15 years' experience in New York City offices; country and city work; well up in design, perspective and rendering; also specifications and superintending; salary, moderate. Address 30E, care The American Architect. (1930)

YOUNG MAN, with slight knowledge of drafting, wishes position with busy architect. Will give his best efforts in return for opportunity to learn profession. Can submit samples of work upon request. Address 30D, care The American Architect. (1930)

HELP WANTED

ARCHITECTURAL and Ornamental Iron Draughtsman needed constantly; salaries \$18 to \$35 per week. The Engineering Agency, Inc., Monadnock Block, Chicago.

SPECIAL NOTICE

PARTNERSHIP WANTED—Architect of six years' experience in Eastern offices and five of independent Western practice, university graduate, student at Beaux Arts, pro-

ficient in all branches and capable of the best work, wishes to communicate with an architect established in a city of over 100,000 who requires a partner or wishes to fill a position of responsibility, yielding a salary and percentage, that would lead to partnership. Address 26C, care The American Architect. (1926 & ff.)

YOUNG ARCHITECT, of good standing, and practicing in New York, has large acquaintance which shall gradually develop into good clientele, desires to connect, on a salary basis, with a New York architect or firm of architects. Address 30F, care The American Architect. (1930)

PROPOSALS

Treasury Department, Office of the Supervising Architect, Washington, D. C., December 2, 1912.—Sealed Proposals will be received in this office until 3 o'clock P. M. on the 14th day of January, 1913, and then opened, for the mechanical equipment (except elevators) of the new building for the Bureau of Engraving and Printing at Washington, D. C., in accordance with drawings and specification, copies of which may be obtained at this office, at the discretion of the Supervising Architect.

OSCAR WENDEROTH, Supervising Architect.
(1929-30)

Treasury Department, Office of the Supervising Architect, Washington, D. C., December 2, 1912.—Sealed Proposals will be received at this office until 3 o'clock P. M. on the 14th day of January, 1913, and then opened, for the interior finish of a four-story basement and attic fireproof building, of approximately 90,000 square feet ground area, for the Bureau of Engraving and Printing, Washington, D. C. Drawings and specifications may be obtained at this office at the discretion of the Supervising Architect.

OSCAR WENDEROTH, Supervising Architect.
(1929-30)

Treasury Department, Office of the Supervising Architect, Washington, D. C., December 2, 1912.—Sealed Proposals will be received at this office until 3 o'clock P. M. on the 14th day of January, 1913, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring, interior lighting fixtures and approaches) of the United States Post Office at Rochester, New Hampshire. The building is of one story and basement, and has a ground area of approximately 5,200 square feet; fireproof construction throughout; stone and brick facing and tin roof. Drawings and specifications may be obtained from the Custodian of Site at Rochester, N. H., or at this office, at the discretion of the Supervising Architect. Drawings and specifications will be ready for delivery December 10, 1912.

OSCAR WENDEROTH, Supervising Architect.
(1929-30)

INVITATION FOR PROPOSALS.

Treasury Department, Office of the Supervising Architect, Washington, D. C., December 2, 1912.—Sealed Proposals will be received in this office until 3 o'clock P. M. on the 29th day of January, 1913, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring, interior lighting fixtures and approaches) of the United States Post Office at Rochester, New Hampshire. The building is of one story and basement, and has a ground area of approximately 5,200 square feet; fireproof construction throughout; stone and brick facing and tin roof. Drawings and specifications may be obtained from the Custodian of Site at Rochester, N. H., or at this office, at the discretion of the Supervising Architect. Drawings and specifications will be ready for delivery December 10, 1912.

OSCAR WENDEROTH, Supervising Architect.
(1929-30)

LUFKIN
MEASURING TAPES

For work where accurate measurements are essential. They make good in the severest test.

THE LUFKIN RULE CO. Saginaw, Mich., U. S. A.
New York London, Eng. Windsor, Can.



OSWEGO
INTERNALLY FIRED
WATERTUBE BOILERS

Occupy smallest space per horse-power. Self-contained. No brickwork. Maximum efficiency and economy. New bulletin upon request.

A. D. GRANGER CO.
90 West St. NEW YORK



It Will Pay You to Investigate the
INGHAM SHOWER MIXER
Maximum Comfort, Safety and Economy. Write for free illustrated descriptive booklet "A Good Mixer."

IMPERIAL BRASS MANUFACTURING COMPANY
Dept. 174, 1222 W. Harrison Street, Chicago

DIXON'S SILICA-GRAPHITE PAINT
The Most Tenacious Protector

for all structural steel or other metal work. Eminent architects and engineers all over the world have specified its use on buildings, bridges, etc., because they knew its value. Made in ONE GRADE only.

Our Paint Department will cheerfully send long service records and appropriate paint literature, if requested.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

National Fire Proofing Company
Manufacturers of **TERRA COTTA HOLLOW TILE**
Contractors for **FIREPROOF CONSTRUCTION**

Main Office: PITTSBURGH, PA., Fulton Building

Chicago, Commercial National Bank Bldg.	New York, Flatiron Bldg.
Cincinnati, Union Trust Bldg.	Land Title Bldg.
Canton, City National Bank Bldg.	Boston, John Hancock Bldg.
Detroit, Penobscot Bldg.	Washington, Colorado Bldg.
Syracuse, University Block	Baltimore, 15 East Fayette Street
Minneapolis, Lumber Exchange	Columbus, West Broad Street
Los Angeles, Central Bldg.	Cleveland, Chamber of Commerce Bldg.

26 Factories in the United States Toronto, Ontario

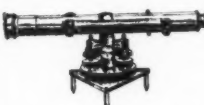
Mineral Wool
FIRE, SOUND and VERMIN PROOF **INSULATOR**
SAMPLES AND CIRCULARS FREE

U. S. MINERAL WOOL CO., NEW YORK 140 Cedar St.

ARCHITECTS' DUMPY LEVEL

This is an inexpensive and accurate instrument, especially designed for the superintending architect. It has a telescope 12 inches in length, magnifying power 25 diameters. For further particulars, catalog and price, address,

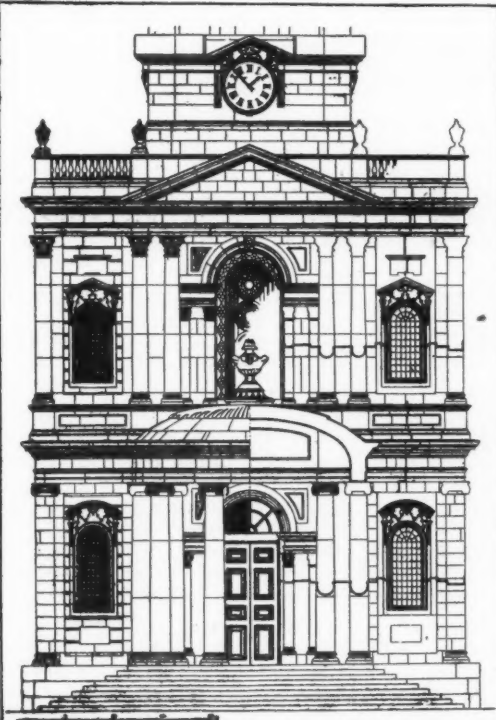
No. 2042 **DAVID WHITE CO., Inc.**
419 East Water Street Dept. L Milwaukee, Wis., U. S. A.



Integro
EXPULSO DEVORO
Ejecto WAVELINE

These Trade Marks on any Water Closet Bowl or Tank are a guarantee of quality.

The Great Western Pottery Co., Tiffin, O. Kokomo, Ind.



Church of St. Mary-in-Strand
London

Other designs published after request. Drawings by T. E. Fryer

Colonial Details

Consisting principally of measured drawings. Compiled by W. R. Ware. Taken from "The Georgian Period."

One hundred pages of illustrations, among which are included working drawings of some of the best examples of "Colonial" Architecture. The elevations and interiors of houses, churches and other buildings of this period are shown.

An excellent collection of plates from which one may study the details of doorways, staircases, mantels, cornices, pulpits, organ cases, etc., each drawn to large scale.

The illustrated text consists of twenty-four pages devoted to a critical discussion of "so-called Colonial Architecture of the United States," directing attention to its main characteristics.

Price in Portfolio (express prepaid) \$15.00

"ADDRESS: BOOK DEPARTMENT"
THE AMERICAN ARCHITECT
50 Union Square New York City

MASON SAFETY TREADS

For Stairs, Wood, Iron, Marble or Cement
New or Old

HUNDREDS OF THOUSANDS IN USE

American Mason Safety Tread Co., Boston



VAILE & YOUNG'S Patent Metallic Skylights

Without Putty

Construction adapted to all forms and styles of Skylights.

Thousands of feet in use have proved its superiority. Particularly adapted for Depots, Mills, Factories, etc., where large and continuous lights are required. Send for Illustrated Catalogue.

214 N. Calvert St., Baltimore, Md.

"The Barrett Specification."

For laying durable and economical roofs of Coal Tar Pitch, Tarred Felt and Slag or Gravel. Every architect needs it in his files. Free on request.

BARRETT MANUFACTURING COMPANY
New York, Chicago, Philadelphia, Boston, St. Louis, Cleveland, Pittsburgh, Cincinnati, Kansas City, Minneapolis, New Orleans, Seattle, London, Eng.



GURNEY HEATERS

FOR
STEAM AND
HOT WATER



GIVE
COMPLETE
SATISFACTION

N.Y. BRANCH
12 EAST 42ND ST.
NEW YORK

GURNEY HEATER MFG. COMPANY
BOSTON, MASS.

HOME OFFICE
188-200 FRANKLIN ST.
BOSTON

Pee Gee Flatkoatt

is the right wall-finish from every point
of view, for every kind of building.

"Modern Method of Finishing Walls"

is a good, practical wall-finishing book. Sent Free.

PEASLEE-GAULBERT CO., Inc., 407 W. Main St., Louisville, Ky.

TO BE SATISFACTORY

A Roof must, first of all, be weather-proof. That goes without saying. Tile, Slate or any other material not meeting this requirement is a failure.

National Interlocking Roofing Tile
is absolutely weather-proof when properly laid and does not depend on the underlying felt.

American architects, contractors and prospective builders are invited to write us for Catalogues. Samples and Prices on Natural Reds and Green Glazes.

The National Roofing Tile Co., Lima, Ohio

"61" FLOOR VARNISH

PRATT & LAMBERT VARNISHES

ESTABLISHED 63 YEARS

LOOMIS FILTERS

Improved System Established 1880 Simple and Effective
LOOMIS-MANNING DISTRIBUTING FILTER CO.

Main Office:
828 Land Title Building, Broad and Chestnut Streets, Philadelphia
Boston Buffalo New York Baltimore Washington Chicago

STANLEY & PATTERSON, Inc.

Manufacturers of General Electrical Supplies
of the highest possible efficiency and quality

23 Murray St.—27 Warren St., NEW YORK
(FROM BLOCK TO BLOCK)

This is the age of making *one* thing better
than anyone else.

The SIMONDS VACUUM VALVE

has Superior Qualities that are Distinct Advantages over
other kinds. Investigate.

THE SIMONDS HEATING AND SPECIALTY CO., Grand Rapids, Michigan

CUTLER MAIL CHUTES

"The Cheapest Modern Improvement."

CUTLER MAIL CHUTE CO.
ROCHESTER, N. Y.

PATENTED

NATIONAL TUBE COMPANY

MANUFACTURERS OF

Spellerized Steel Pipe

See page announcement in first issue of every month; also pages
1118-1119 of Sweet's Index, 1912 edition.

SEND FOR LITERATURE

General Offices, Frick Bldg., Pittsburgh, Pa.

• THE L. SCHREIBER & SONS CO. •

STRUCTURAL STEEL  CINCINNATI  ORNAMENTAL IRON

BRANCH OFFICES NEW YORK • CHICAGO • PITTSBURG • ATLANTA • NEW ORLEANS • SAN FRANCISCO • RICHMOND

OKONITE
INSULATED

ELECTRIC LIGHT WIRES

Are pronounced by leading Architects to be SAFE, DURABLE and EASILY
ADJUSTED for the inside wiring of PUBLIC and PRIVATE BUILDINGS.

Sole
Manufacturers

THE OKONITE CO., 253 Broadway, New York

CENTRAL ELECTRIC CO., Chicago, Ill., General Western Agents

Novelty Electric Co., Phila., Pa.

F. D. Lawrence Electric Co., Cincinnati, O.



TRADE MARK

REG. U. S. PATENT OFFICE.

Pettingell-Andrews Co., Boston, Mass.


HIGGINS'

DRAWING INKS
ETERNAL WRITING INK
ENGROSSING INK
TAURINE MUCILAGE
PHOTO-MOUNTER PASTE
DRAWING-BOARD PASTE
LIQUID PASTE
OFFICE PASTE
VEGETABLE GLUE, Etc.

ARE THE FINEST AND BEST GOODS OF THEIR KIND
Emancipate yourself from the use of corrosive and ill-smelling inks and adhesives and adopt the **Higgins Inks and Adhesives**. They will be a revelation to you, they are so sweet, clean and well put up, and withal, so efficient. They are specially adapted for use in Architects' and Engineers' Offices, as well as for general home and office use.

AT DEALERS GENERALLY

Chas. M. Higgins & Co., Manufacturers
Branches: Chicago, London 271 Ninth St., BROOKLYN, N. Y.

TURNER Construction Company

11 Broadway, New York City

and

312 Prudential Bldg.,
Buffalo, N. Y.

Reinforced Concrete Contractors and Engineers

FRENCH'S "Quality First" PEERLESS MORTAR COLORS BRIGHTEST—STRONGEST—UNFADING

The original and standard colors for coloring Interior and Exterior Mortars. Peerless Mortar Colors are ground in pulp form and can be worked into the mortar in much less time than dry colors.

Write for color card and prices.

Manufactured only by

SAMUEL H. FRENCH & CO.

Established 1844

PHILADELPHIA, PA.



HESS MEDICINE LOCKER SANITARY CABINET

**The Only Modern, Sanitary
STEEL Medicine Cabinet**



The Reces-st Steel
Medicine Cabinet

or locker, finished in snow-white, baked everlasting enamel, inside and out. Beautiful beveled mirror door. Nickel plate brass trimmings. Steel or glass shelves.

Costs Less Than Wood

Never warps, shrinks nor swells. Dust and vermin proof, easily cleaned.

Should Be In Every Bath Room

Four styles. Four sizes. To recess in wall or to hang outside. Send for illustrated circular.



A B. CHAMBER
Steel Cabinet

HESS, 942L Tacoma B'dg., CHICAGO

Makers of Steel Furnaces.

Free Booklet.

CANVAS ROOFING

**BAYONNE
ROOF AND DECK
CLOTH**

To satisfy you of its wearing qualities we will send you enough to cover a busy spot in your office.

Paint It Once—Only Once!

JOHN BOYLE & CO., INC.

112-114 Duane Street NEW YORK 70-72 Reade Street
202-204 Market Street, ST. LOUIS

"50 years' experience back of it"

INDUSTRIAL ENGINEERING CO.

Engineers and Contractors

Reinforced Concrete and General Building Construction

HUDSON TERMINAL BUILDING

30 CHURCH ST (Telephone, 7815 Cortlandt) NEW YORK
Branch Offices: 100 State St., Albany, N. Y. Grant Bldg., Atlanta, Ga.

McCray Refrigerators

embody all the up-to-date ideas in scientific refrigeration. Perfect air circulation—no mingling of odors—outside icing. No charge for our special designing service to assist architects in solving problems in refrigeration. Send for catalog No. A-H.

McCray Refrigerator Co.
507 Lake Street Kendallville, Ind.



Edw. Darby & Sons Co. Inc.
PHILADELPHIA

Before specifying lockers we suggest that you let us send you this complete locker book, just off the press—free for the asking.

**PEN-DAR
PLANISHED
STEEL
LOCKERS**

with their harmonizing beauty and rigid all-steel construction, are giving perfect satisfaction in Gyms, Schools, Factories, Club and Business Houses everywhere.

EDW. DARBY & SONS CO., Inc., 236 Arch Street
Philadelphia
Makers of Steel Cabinets, Bins and Shelving



Andrews, Jacques & Rantoul, Architects, Boston

**DEXTER BROTHERS'****English Shingle Stains**

Hold their colors in all climates and give a wealth of artistic effect. By the use of our Silver Grays, Moss Greens and Wood Browns any house may be stained to harmonize with its surroundings.

Let us send you our twenty-eight miniature shingles.

DEXTER BROTHERS CO., 120 Broad St., Boston, Mass.

Branch Offices, 1133 Broadway, N. Y., 218 Race St., Phila.

Makers of Dexter Brothers' PETRIFAX, a waterproof coating for exterior and interior use on cement, brick, plaster, etc.

Agents H. M. Hooker Company, Chicago; F. H. McDonald, Grand Rapids; F. T. Crowe & Co., Seattle, Spokane, Tacoma, Washington and Portland, Oregon; A. R. Hale, 818 Hennen Bldg., New Orleans; R. McC. Bullington & Co., Richmond, Virginia; Hoffschlaeger Company, Ltd., Honolulu and dealers.



Stain Paint

Stain your shingles and bring out the natural grain of the wood

SPECIFY
Silver Lake A
Sash Cord

and insist upon having it put in



Our name is stamped on every foot

WRITE FOR OUR 20 YEAR GUARANTEE

The Standard

Established 1869

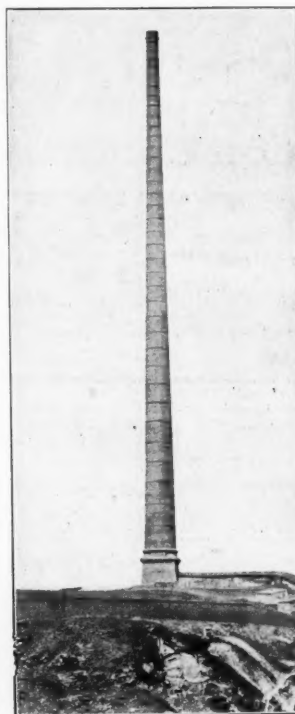
DEMAND
Adler's Harmonious Tones

OF GILDING AND ENAMELING

Lighting Fixtures
and Interior Decorations

J. ADLER GILDING CO., Inc.

343-9 W. 13th Street, New York



460'-0" High
by
8'-3" Diameter

Perforated
Radial Brick
Chimneys

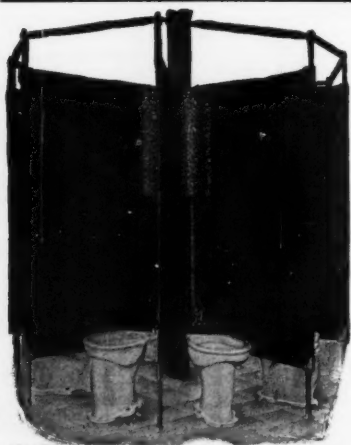
Design and
Construction

Estimates and
Information
Upon Request.

H. R.
Heinicke,
INC.

147 Fourth Ave.
New York City, N.Y.

Philadelphia, Pa.
Boston, Mass.
Toronto, Ont.
Montreal, Que.



The Kelly Octopus
Water Closet System

Patented Oct. 20, 1908, Dec. 1, 1908, Sept. 7, 1909.

The complete fixture as shown, occupies a space equal to a circle 7 ft. 6 in. in diameter. Set in the center of a room, this gives all the wall space for wash basins, urinals, sinks, etc.

Perfect ventilation; no trap venting needed.

THOS. KELLY & BROS.

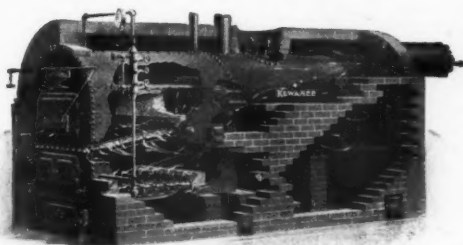
Congress St. and 46th Ave., Chicago



Octopus Water Supply Connections complete water supply.



Kelly Octopus Closet Fitting, comprising all plumbing below floor.



THE KEWANEE Smokeless Fire-Box Boiler IS SMOKELESS

It is over 99.5% smokeless under the most severe tests with the poorest grades of Bituminous coals.
It reduces coal bills 30 to 40 per cent.
It makes a dry steam and quickly.
It responds instantly to a fresh fire.
It is easily installed and easily handled.
Repairs cost next to nothing.
It meets any and all Smoke Ordinances.
It is built by skilled mechanics at the largest and best equipped Boiler Shops of the kind in the world.

KEWANEE BOILER COMPANY, KEWANEE, ILL.

Chicago

New York

St. Louis

Kansas City

Salt Lake City

Los Angeles

Sold in Canada exclusively by the Dominion Radiator Co.

Metal Tile Roofing



of Mullins make is the kind that endures. It is simple in construction—positively storm and water-tight.

Guaranteed to remain in perfect condition for years, when put on according to directions. Expansion and contraction thoroughly provided for.

Widely conceded to be the most attractive and satisfactory roofing made.

Also manufacturers of Cornices, Building Fronts, Garlands, Modillions, Enriched Moldings, Capitals, Finials, Tympanum Panels, Rosettes, Faces and other architectural ornaments. Thousands of designs to choose from.

Cornice makers and the Building Trades will find our prices attractive and shipments prompt.

Tell us your wants and the particular kind of Sheet Metal Work you are interested in. Catalogues will be mailed you at once. Discounts to the trade on application.

The W. H. Mullins Co., 206 Franklin St., Salem, O.

Bay State Brick and Cement Coating



Trade-Mark
Reg. U. S. Pat. Off.

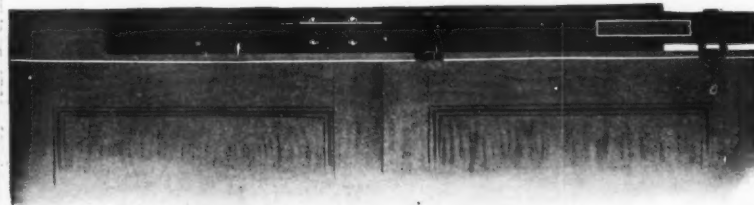
will protect all concrete or cement construction against damage by moisture, will retard fire, give your building any tint desired, may be used as a tint on brick or wood, is equally advantageous on stucco or concrete houses, in mill, bridge or sewer construction. Send at once for booklet No. 7.

WADSWORTH, HOWLAND & CO., Inc.

Paint and Varnish Makers and Lead Corroders
82-84 Washington Street, Boston, Mass.
New York Office, 156 Fifth Avenue



CENTRAL BUILDING
Seattle, Wash.



**Costs More Than Some
And Ought To**

For They Are Worth the
Difference

“RELIANCE”

Is the Name

RELIANCE BALL BEARING DOOR HANGER COMPANY

No. 1 MADISON AVENUE, NEW YORK



It Is Worth While for Architects to Know ||

that we have the largest and best equipped plant in the world for the manufacture of Plastic Ornaments and Decorative Work of all kinds in Plastic Materials.

We are constantly engaged in executing the designs of architects throughout the country in ornamental plaster, composition and cement work for theatres, hotels and other public buildings, and dwelling houses. We have the experience and the "know how" as well as the facilities.

THE DECORATORS' SUPPLY CO.

Archer Avenue and Leo Street

CHICAGO



Why Herringbone Lath For All Classes of Work

Herringbone Expanded Metal Lath is now recognized by the best architects and builders as a type of metal lath that can be depended upon for all classes of work.

Herringbone lath gives maximum rigidity. Studs can be placed sixteen inches, center to center, instead of twelve. Saves five cents per square yard on studding.

Herringbone lath insures a plaster coating of uniform thickness. Interlocking selvedge edges are stiff and straight, forming a perfect joint without waste from lapping.

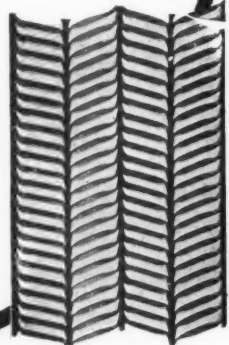
Herringbone lath gives a flat surface to the trowel, instead of a cutting edge. Mortar completely envelops lath, without undue waste, forming perfect and indestructible key.

Also made of American Ingot Iron for work subject to the corroding influences of salt air gases or acids.

Write today for Free Booklet dealing with the uses and advantages of Herringbone Expanded Metal Lath.

The General Fireproofing Co.
2118 Logan Avenue,
Youngstown,
Ohio.

(310)



St. Mary's Parochial School
Sandusky, Ohio



Mercy Hospital
Canton, Ohio

Building the Buildings Fireproof

Here's an inexpensive, practical fire-proof construction suited to all types of buildings.

Berger's Metal Lumber

is simply light, structural steel which replaces wood, stick for stick, in the construction of floors and of all classes of buildings.

Our Metal Lumber catalog tells the whole story.

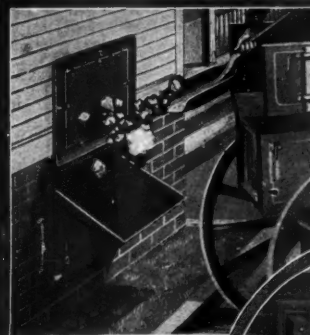
Write the nearest Berger Branch for it today.



THE BERGER MFG. CO. CANTON, OHIO
FOR PROMPT SERVICE ADDRESS NEAREST BRANCH
NEW YORK · BOSTON · PHILADELPHIA · ST. LOUIS · MINNEAPOLIS · SAN FRANCISCO

Also manufacturers of Prong Lock Studs and Furring, Rib-Truss, Ferro-Lithic and Multiplex Reinforcing Plates, Metal Ceilings, Expanded Metal Lath, Sidewalk Forms Raydiant Sidewalk Lights, etc.

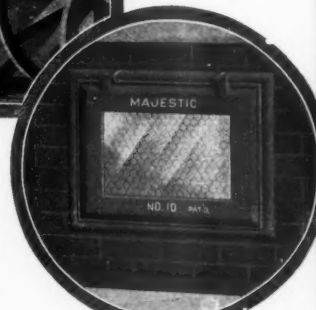
MAJESTIC FOUNDATION COAL CHUTE



Protects the building just where most needed — above the opening.

The heavy steel hopper catches all the coal.

When not in use, the hopper lies in the bottom of the chute body. The door locks automatically either open or closed. Strictly burglar-proof. With 1/4-inch wire glass or steel panel in door.



Write for circular and address of nearest dealer.

MAJESTIC FURNACE CO.

Huntington, Indiana



McKNIGHT BUILDING, MINNEAPOLIS, MINN.
Hewitt & Brown, Minneapolis, Architects.

"Sirocco"
TRADE MARK

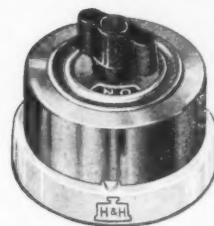
Heating and Ventilating Fans

are especially adapted for installation in Public and Office Buildings where basement space is valuable.

Ask us for Bulletin No. 340-A.

AMERICAN BLOWER COMPANY
DETROIT, MICH.
U. S. A.

Canadian Sirocco Company, Limited, Windsor, Ontario.
Manufacturers for Canada.



Snap Switches are Preferred by the Underwriters

The Rules and Requirements of the National Board of Fire Underwriters, Page 39, Rule 24, Section B, read as follows: "Up to 250 volts and 30 amperes, *approved indicating snap switches* are suggested in preference to knife switches on lighting circuits."

This Company is the original manufacturer of snap switches, and has been making them for over twenty-one years, and you may absolutely depend upon the efficiency and durability of H & H Snap and Push Button Switches.

H & H Switches are made in all varieties of connections and in all current capacities, including 35 amperes, 600 volts.

Ask any practicing electrical engineer or electrical contractor about the reputation of H & H Switches.

The Hart & Hegeman Mfg. Co.,
344 Capitol Ave., Hartford, Conn.



If It's a Ventilator— It's the "Globe"

The "Globe" Ventilator is not a new ventilator that has just come on the market. It is the recognized ventilator of many years since which time millions have been specified by architects and used in every type of building throughout the country.

The "Globe" Ventilators are known as the silent type, and are guaranteed to be absolutely storm-proof.

Let us send you a copy of "The Globe Ventilator" catalog. It is full of information. Better write for one—right now.

Globe Ventilator Company
Troy, New York

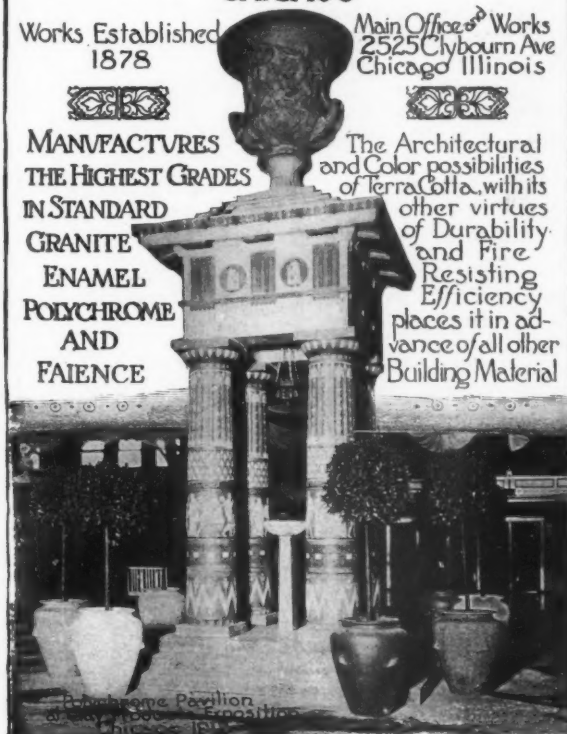
THE NORTHWESTERN TERRA COTTA CO CHICAGO

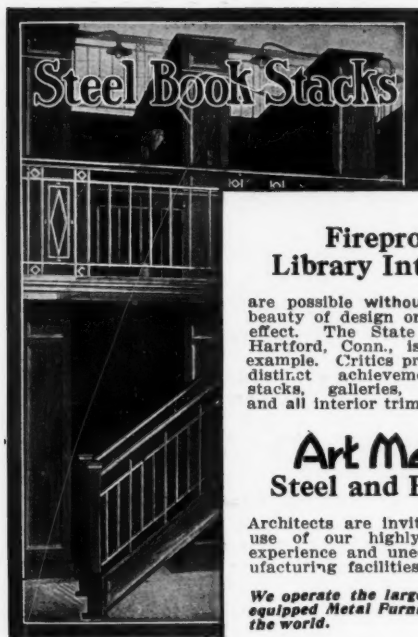
Works Established
1878

Main Office & Works
2525 Clybourn Ave
Chicago, Illinois

MANUFACTURES
THE HIGHEST GRADES
IN STANDARD
GRANITE
ENAMEL
POLYCHROME
AND
FAIENCE

The Architectural
and Color possibilities
of Terra Cotta, with its
other virtues
of Durability
and Fire
Resisting
Efficiency
places it in ad-
vance of all other
Building Material





2-Story Stack
State Library
Hartford,
Conn.

Fireproof Library Interiors

are possible without sacrificing beauty of design or ornamental effect. The State Library at Hartford, Conn., is a splendid example. Critics pronounce it a distinct achievement. Book stacks, galleries, wainscoting and all interior trim is

Art Metal Steel and Bronze

Architects are invited to make use of our highly specialized experience and unequalled manufacturing facilities.

We operate the largest and best-equipped Metal Furniture plant in the world.

Art Metal Construction Company

Jamestown, N. Y.

BRANCHES: New York, Chicago, Philadelphia, Boston, Washington, Baltimore, St. Louis, Pittsburgh, Kansas City.

Our New Catalogs are just off the press. Handsomely illustrated. Four books: "Libraries," "Banks," "Public Buildings," "Commercial and Ins. Offices." Send for books wanted.

HERE IS ONE DESIGN— WE HAVE OTHERS

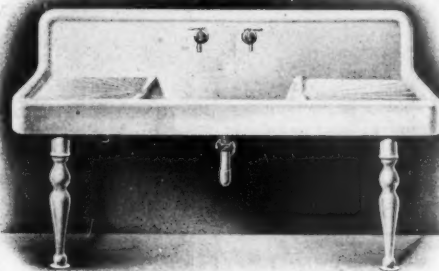


Plate G-200 (Patented) "Tennessee" Sink

Our line of Tennessee Sinks, with back, apron and drain boards cast integral, includes eleven different designs and nineteen sizes. The most complete line made.

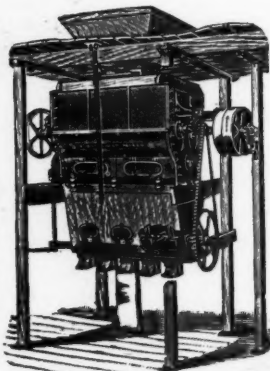
The Cahill Iron Works, Chattanooga, Tenn.

New York Office and Display Rooms, 1161 Broadway, Thos. H. Hutchinson, Manager. Philadelphia Office, 5604 N. 4th St., Russell D. Knight, Sales Agent. Portland Office and Warehouse, 550 Sherlock Bldg., H. A. Heppner & Co., Sales Agents. San Francisco Office and Display Rooms, 1749 Sacramento St., C. H. Stanyan, Sales Agent. Havana, Cuba, Office, San Ignacio No. 50, Cagigas & Quesada, Sales Agents.

THE MIXER THAT MIXES

hair or fiber with plaster the way it should be done. All working parts and mixing chamber of the

Broughton Mixer

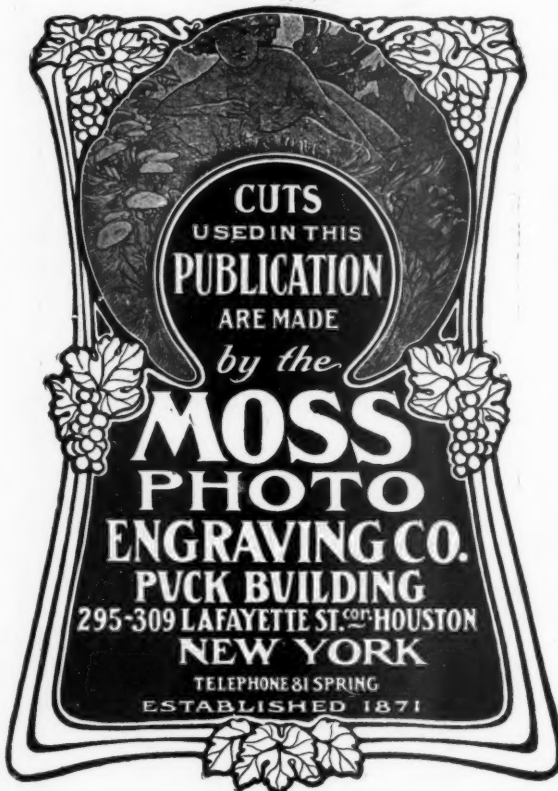


are made of Iron and Steel. Paddles in screw form are placed on two shafts running in opposite directions, lift the material from the bottom of the case and throw it in opposite directions from one end of the case to the other, keeping it in constant motion and obtaining a perfect mixture.

The Broughton Mixers are durable and easy to operate, designed with great care. Duplicate parts can be furnished at any time. Send for booklet.

W. D. Dunning

231 West Street, Syracuse, N. Y.



CUTS
USED IN THIS
PUBLICATION
ARE MADE
by the

**MOSS
PHOTO
ENGRAVING CO.**

PVCK BUILDING
295-309 LAFAYETTE ST. cor. HOUSTON
NEW YORK

TELEPHONE 81 SPRING
ESTABLISHED 1871

The
Clean
Way

TO DRINK
IN PUBLIC



The Clow Way

When you drink from the Clow
Bubble you don't wonder if it
is clean—YOU KNOW IT

"HYGIENE"
Drinking Fountain

(Adamantose Ware)

All bubble cups are "law-proof,"
but very few are germ-proof.
The Clow "Madden Patent"
Drinking Cups are both



Send for Bubble Cup
Fountain Catalogue

JAMES B. CLOW & SONS

CHICAGO

The Best Pair of Stairs

to specify for that
house you are plan-
ning is a system of

*Western
Electric
Inter-phones*

They will save
many stair climb-
ings.

Wooden sets, met-
al sets, either flush
or non-flush—
all will har-
monize with
their sur-
roundings.

The user is
the operator—
connections
are made
automatically.

Write for Bulletin
No. 2862 to-day.

Western Electric Company

Manufacturers of the 6,000,000 "Bell" Telephones

New York	Chicago	Kansas City	San Francisco	Montreal	London
Buffalo	Milwaukee	Oklahoma City	Oakland	Toronto	Berlin
Philadelphia	Pittsburgh	Minneapolis	Los Angeles	Winnipeg	Paris
Boston	Cincinnati	St. Paul	Dallas	Calgary	Rome
Richmond	Indianapolis	Denver	Seattle	Vancouver	Johannesburg
Atlanta	St. Louis	Omaha	Portland	Antwerp	Sydney
Savannah			Salt Lake City		Tokyo

EQUIPMENT FOR EVERY ELECTRICAL NEED



NEVER SPLIT SEAT CO.
EVANSVILLE, IND. U.S.A.

"NEVER SPLIT" TRADE MARK

PATENTED
U.S.A. MARCH 31, 1903
ALSO CANADA, ENGLAND,
GERMANY & FRANCE.

**This Trade Mark Is On
The Underside of Every
Genuine "NEVER SPLIT" Seat**

"NEVER SPLIT" gives universal and permanent satisfaction.

"NEVER SPLIT" is guaranteed for five years.

"NEVER SPLIT" joints are held tight by Steel Bolts, Nut and Washers.

"NEVER SPLIT" is finished like a piano with moisture and acid proof varnish, which retains its lustre for years.

The "NEVER SPLIT"

IS
The Architects'
Choice
because it is
**Handsome,
Durable,
Sanitary and
Comfortable**

Send for
Booklet
"The
Reason
They
Never
Split"

NEVER SPLIT SEAT CO.
EVANSVILLE, IND. U.S.A.



Pierce Spence Water Boiler
fitted with new triangular bar
grate and base.

YOUR customer depends upon your judgment in selecting the proper heating system for his needs. You can justify this confidence by recommending the

Pierce SPENCE Water Boiler

a boiler which has stood the test for over a quarter of a century. A boiler which will not only furnish adequate heat, economically, but owing to its design and construction is easy to operate and free from repairs.

Added to this is the new triangular bar grate and base which entirely eliminates the many shortcomings of the old-style grate, and allows the boiler to carry fire continuously with little attention. If you are not fully posted write to-day for copies of the Spence and Triangular Grate Booklet.



Pierce Mark

Pierce, Butler & Pierce Mfg. Co.
Syracuse, N. Y.



Toilet Combina- tions of Unusual Attrac- tiveness

The satisfaction to be derived from any toilet combination depends on the tank and flushing mechanism.

Our 1913 combinations give unfailing satisfaction because they consist of the highest grade bowls, either syphon jet or wash down, with Pfau Seats of patterns to suit and they are equipped with the celebrated

PFAU ^{white-copper} TANK

These tanks are very much smaller than ordinary tanks of wood, china or enameled cast metal, but they are 100% efficient and are more than ample for flushing out the largest bowls. They work so silently that the rushing of the water through the ball cocks can not be heard outside the toilet room.

Not only is the Pfau White-Copper Tank made of the very best of materials and guaranteed to be perfect in every detail, but it possesses a distinctive beauty, an exquisite adaptation of art to utility and a refinement of style and finish that make it an ornament to any home and place it beyond the limits of routine competition.

To make certain of securing the advantage of this exclusive excellence be sure to specify the Pfau Combinations for all your better work.

Pfau Washdown Combination.....Plate No. 300 D
Pfau Syphon Jet Combination.....Plate No. 333 D

These combinations can be seen at the show rooms of all representative jobbers. Write for booklet.

The Pfau Manufacturing Company

102-120 Huston Street CINCINNATI

Largest Manufacturers of Tanks and Seats in the World.



TRIANGLE MESH CONCRETE REINFORCEMENT

MADE in rolls.
Either solid or
stranded tension
members. A steel fabric of
great strength, reinforcing
in every direction.

"Engineer's Handbook of Concrete Reinforcement" furnished free upon request

We Make

American Wire Rope	Barbed Wire
Aeroplane Wire and Strand	Woven Wire Fencing
Piano Wire	Fence Gates
Mattress Wire	Steel Fence Posts
Weaving Wire	Concrete Reinforcement
Broom Wire	Springs
Fence Wire	Sulphate of Iron
Flat Wire	Poultry Netting
Flat Cold Rolled Steel	Wire Rods
Wire Hoops	Juniata Horse Shoes
Electrical Wires and Cables	and Calks
Rail Bonds	Shafting Cold Drawn Steel
Bale Ties, Tacks, Nails, Staples, Spikes	Wire of Every Description

We issue separate catalog for each of these. Gladly furnished upon application.

American Steel & Wire Co.'s Sales Offices

CHICAGO, 15 West Adams Street. NEW YORK, 30 Church Street.
NORWICH, 24 State Street. BOSTON, 128 Franklin Street. PITTS-
BURGH, 1750 Broadway. CINCINNATI, 102-120 Huston Building. CLEVELAND,
Western Reserve Bldg. DETROIT, Ford Building. ST. LOUIS, Third
Nat'l Bank Bldg. MONTREAL, Bank of Montreal Bldg. ST. PAUL, MINNE-
APOLIS, Pioneer Building, St. Paul. PHOENIX, First Nat'l Bank Bldg.
SALT LAKE CITY, 128 South 3rd West Street.

United States Steel Products Company

Export Department: New York, 30 Church Street.
Pacific Coast Department: San Francisco, Klatta Building. Portland,
Maine and Alder Sts. Seattle, 414 Ave. South & Union St.
Los Angeles, Jackson & Central Ave.

WHITE HOUSES DEMAND WHITE PAINT.



There are many buildings, particularly some types of residences, the exterior finish of which cannot well be anything else than white paint without detracting from the architectural effect that was so carefully planned.

There are many degrees of whiteness in white paint, as may easily be demonstrated by comparing samples spread on a piece of clear glass. It is easy enough to get a white paint that will satisfy a client, but when you have designed a house which good taste demands should be painted white, is it not worth while to use white paint which will do more than merely satisfy?

CARTER *The White* **White Lead**

Compare Carter strictly pure White Lead with anything else you would consider using and you will find Carter so much whiter, so much clearer, so much more beautiful, that you will be unwilling to have anything else used on a structure in which you take a professional pride.

White Lead made by the modern Carter process is guaranteed strictly pure and has every good quality of any pure white lead. And it is so white that it has established a new standard of whiteness for white paint, and given new life and beauty to colors. It is so uniformly fine that it has unusual covering capacity and durability.

The same freedom from any tinge of color that makes Carter pre-eminent for white paint also makes it indispensable whenever delicate tints or bright, lively colors are desired.

Carter White Lead may be specified for government work with assurance that samples submitted will meet the requirements of the Treasury Department.

Carter White Lead Co.

Chicago

Factories : Chicago—Omaha



PL. 3008

The Quietest Closet Made

When installing a Closet Combination why not make a vigorous effort to have it the most Sanitary and Quietest Closet made.

The "Ariston" is as absolutely noiseless as a closet can be made and with the exceptionally high-grade Fittings we use in our Tanks the Combination is perfection.

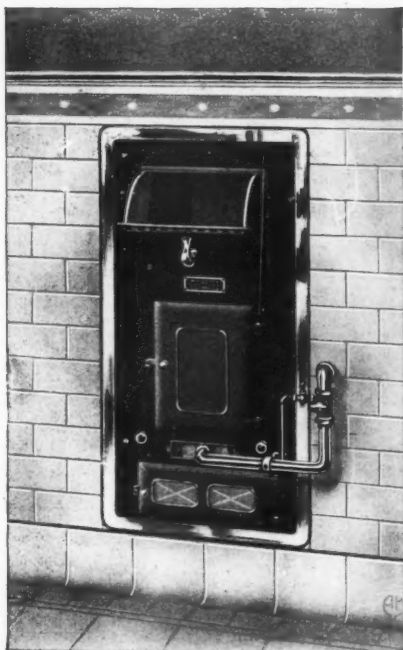
**THE
Thomas Maddock's Sons Co.**

The Oldest Sanitary Pottery in America

Established 1859

Trenton, N. J.

Architectural Catalog maintained in the "Builders Trade Catalog" (A. B. C. system, Section 35-B; Catalog 5).



PYROFUSE Type G

Pyrofuse TRADE MARK

Garbage Destroyers

For Apartment Buildings

The PYROFUSE System of Garbage Disposal is now used by leading Architects because it is the economical and practical solution of a serious problem.

The method of placing one small PYROFUSE in each suite is ideal, and the Tenants are no longer bothered with the old Garbage Can.

The Portable or the Wall Type can be furnished for Apartments.

J. B. Prescott & Son, Mfrs.

Factory and Main Office
Webster, Mass.

New York Office, 38 West 32nd St.
H. M. Graves, Mgr.



AT A NOMINAL COST THIS OLD BUILDING WAS MODERNIZED

This KAWNEER Store Front is a credit to the Architect, Owner, Tenant and to the KAWNEER Manufacturing Co.

BOOK OF DETAILS

We have compiled a book (No. 3) that contains information you need to intelligently design modern KAWNEER Store Fronts. It shows full sized details of KAWNEER members and photographs of many of the finest big and little Fronts in the country.

We originated the solid, all-metal Store Front and by our specialized efforts believe we are in a position to co-operate with you.

Just drop a card saying, "Send Booklet No. 3."

A 20th Century Store Front

Installed in an Old Building

Throughout the country there are thousands of business buildings undergoing alteration—they are being modernized. The aggressive tenants demand Store Fronts that will create sales and the owners are able and willing to do this because of the increased revenue from their property.

Kawneer STORE FRONTS

Modern Store Fronts, therefore, have been given much thought and in our specialized application we have learned of the requirements. The result is that KAWNEER has done more to modernize business buildings than any other element. Seven years ago many of you Architects hesitated to adopt and recommend KAWNEER—Conservatism is always judicious, but now that we have offered thousands of proofs there is no need of hesitating. Now if your clients want to know more about KAWNEER just direct them to actual installations.

KAWNEER MANUFACTURING CO.

Francis J. Plym, President

NILES, MICHIGAN

Home Offices

Factories:
Niles, Michigan,
San Francisco, Cal.,
Toronto, Canada.

We have
a branch
near you

China Offsets

Instead of

Brass on Water Closets

Without increasing the cost of your clients house, you can place a China Connection between Tank and Water Closet. It not only increases the attractive appearance of the Bathroom but does away with one more source of dirt. Use it with



The Siwelclo Noiseless Syphon Jet Combination

This Closet when accompanied with the China Connection, makes a fixture of which every Home Builder would be proud. The only Closet and Tank made expressly to be noiseless. *If you want it for your clients house complete with Tank, Offset and Seat Specify Plate 982-LM.*

The Trenton Potteries Company, Trenton, New Jersey, U.S.A.

Mr. Architect—be sure of pleasing your client by specifying **MUELLER CO- LONIAL SELF-CLOSING WORK**

To thoroughly please your client, give him the best—in other words, give him Mueller Colonial Self-closing work.

For beauty of design or for 100% efficiency in service it never fails to please.

It lasts for many years; it permanently does away with waste of water; it requires the least repairs. We make it right to begin with—and it stays right.

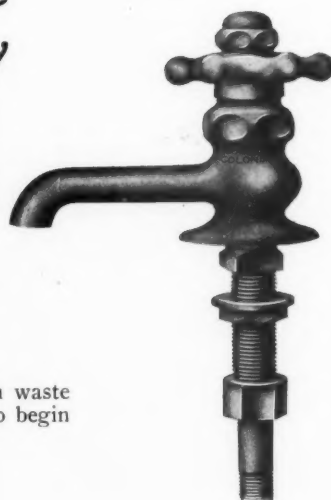
Every piece tested under 200 pounds hydraulic pressure and unconditionally guaranteed.

TRADE MARK
COLONIAL
REGISTERED

H. MUELLER MFG. CO.

Works and General Offices
DECATUR, ILL., U. S. A.
West Cerro Gordo St.

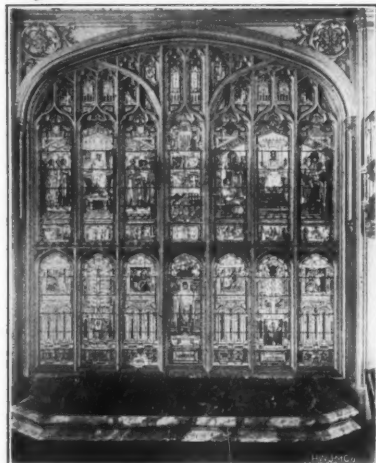
Eastern Division
NEW YORK, N. Y., U. S. A.
254 Canal St., Cor. Lafayette



Patented
12901

The Lawyers' Club New York Lighted Throughout by the "Frink" System of Illumination

Stained Glass Window in Lawyers' Club.



After carefully considering all other methods of illuminating, the architects of The Lawyers' Club decided on the "Frink" System.

The subdued and evenly diffused light produced by the "Frink" System of Illumination brings out architectural details in all their richness and beauty, and lends an added air of luxury to interior decorations and furnishings.

We are prepared to furnish and install any form of general or special lighting and guarantee satisfaction. Write Engineering Department at nearest Branch today for handsomely illustrated Booklet.



Cafe at Lawyers' Club.

H. W. JOHNS-MANVILLE CO.

SOLE SELLING AGENTS FOR FRINK PRODUCTS

Albany	Chicago	Detroit	Louisville	New York	San Francisco
Baltimore	Cincinnati	Indianapolis	Milwaukee	Omaha	Seattle
Boston	Cleveland	Kansas City	Minneapolis	Philadelphia	St. Louis
Buffalo	Dallas	Los Angeles	New Orleans	Pittsburgh	Syracuse

For Canada:—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED.
 Toronto Montreal Winnipeg Vancouver 1865

Glass Roofs Made Tight

UNDER THE ANTI PLUVIUS SYSTEM OF SKYLIGHTS



The Packard Motor Car Co. had this installation made and it hasn't leaked since. The bridge feature of the Anti Pluvius Puttyless Skylight means perfect accessibility to even the highest parts for cleaning or replacing broken lights of glass. Weather proof and substantial. Get the benefit of our experience and test the economy and efficiency of the Anti Pluvius Skylight.

THE G. DROUVÉ CO., BRIDGEPORT, CONN.

YOU ARE NOT EXPECTED TO BELIEVE THAT

Monarch Architectural Varnishes

are the BEST, simply because we say so, but we would like you to remember this one fact:—

In each can of **MONARCH VARNISHES** we, as its manufacturers, **MUST** put enough quality to uphold a reputation that has extended over a period of **EIGHTY-SEVEN YEARS**. Should we offer a poor grade of goods under the name of **MONARCH** we would immediately jeopardize that reputation, the maintenance of which has cost us nearly a century of conscientious work.

Is it likely then that we should risk this good name for the sake of the small extra profit through inferior goods?

Our reputation is your guarantee for quality.

CHAS. H. GILLESPIE & SONS

ESTABLISHED 1824

131-159 Dey Street, Jersey City, N. J.

How Do the Sliding Doors Work?

Is one of the first things the owner of a new residence wants to know.

Most any sliding door operates properly when *first installed*. But few of them stand the "racket" for heavy doors and settling partitions soon throw them out of kelter.

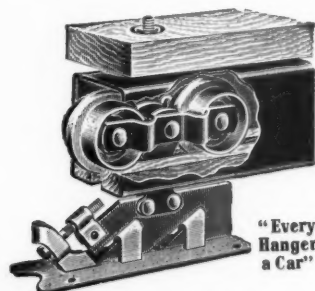
R-W Hangers work right *all the time*, through years and years of hard usage. That's because they're made from the highest quality material by skilled mechanics who strive to make each hanger just a little more perfect than the one before. Then, too, they embody every desirable feature and convenience known to the Hanger makers art.

Special architects catalogue, listing "A Hanger for Any Door That Slides," is yours for the asking.

Write for a Copy TODAY

Richards-Wilcox

MANUFACTURING CO.
AURORA, ILL. U.S.A.
108 THIRD STREET



No. 122 R-W Royal Ball-Bearing Door Hanger

"Every Hanger a Car"



Garden City Hotel, Garden City, Long Island, N. Y. Covered with J-M Transite Asbestos Shingles

This Big Hotel Roof Made Fireproof With J-M TRANSITE ASBESTOS SHINGLES

What stronger argument could be advanced in favor of these shingles than the fact that they were selected in preference to all other roof coverings for the Garden City Hotel, one of the largest and handsomest hotels on Long Island!

J-M Transite Shingles are composed of two indestructible fireproof minerals—pure Asbestos Fibre and Portland Cement. That is why they are proof against fire, water and climatic changes. There is nothing to decay or corrode. They actually improve with age. And they never require painting or coating. First cost is last cost.

On account of their toughness and resiliency they are superior to Tile or Slate. Breakage in shipping is practically eliminated. They do not crack, scale or split when being applied or after they are on the roof. And, weighing less than Tile or Slate, they save in freight, do not require heavy roof construction and are easier to handle.

Samples and booklet on request. Write our nearest Branch today.

For the Most Artistic Effects
use the New
J-M TRANSITE ASBESTOS SHINGLES
with Rough Edges.

Identical in composition with regular J-M Transite Shingles, but made with natural, slightly irregular edges. This gives the highly artistic effect for which there is such a great demand at the present time among builders and owners of high-class residences. Thickness, 1/4-inch—twice as thick as any asbestos shingle on the market. Size 9 x 18 inches, in Indian red, gray and slate.

H. W. JOHNS-MANVILLE CO.

MANUFACTURERS OF ASBESTOS
AND MAGNESIA PRODUCTS

ASBESTOS

ASBESTOS ROOFINGS, PACKINGS
ELECTRICAL SUPPLIES, ETC.

Albany
Atlanta
Baltimore
Birmingham
Boston

Buffalo
Chicago
Cincinnati
Cleveland
Dallas

Denver
Detroit
Duluth
Houghton
Houston

Indianapolis
Kansas City
Los Angeles
Louisville

Memphis
Milwaukee
Minneapolis
Newark, N. J.

New Orleans
New York
Oklahoma City
Omaha
Philadelphia

Pittsburgh
Portland, Ore.
Rochester
St. Louis
St. Paul

San Francisco
Seattle
Syracuse
Washington
Wilkes-Barre

Toronto

Montreal

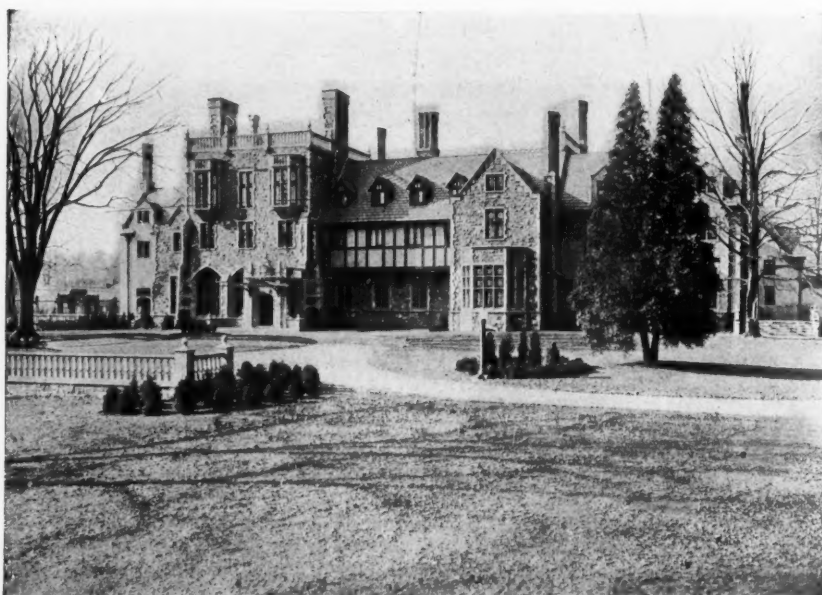
For Canada:—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED.

Winnipeg

Vancouver

1808

AUTOMATIC REFRIGERATION FOR RESIDENCES



RESIDENCE OF MR. FREDERICK F. BREWSTER, NEW HAVEN, CONN.
Messrs. Stephenson & Wheeler, Architects, New York
Equipped with AUTOMATIC Refrigerating and Ice Making Plants

Automatic Refrigerating Plants are peculiarly adapted for installation in High Class Residences, doing away with the disagreeable visits of the Ice man, and the Automatic control and Safety Devices doing away with the disagreeable features usually associated with Mechanical appliances in the Household.

We are always glad to assist Architects in every possible way and will be pleased to answer their questions and on receipt of plans to make estimates and offer suggestions based on our experience.

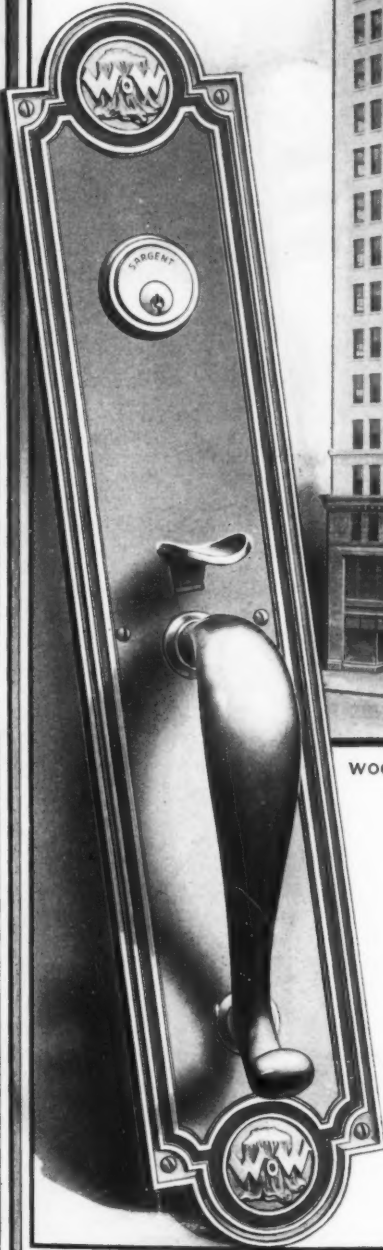
Let us do this for you—

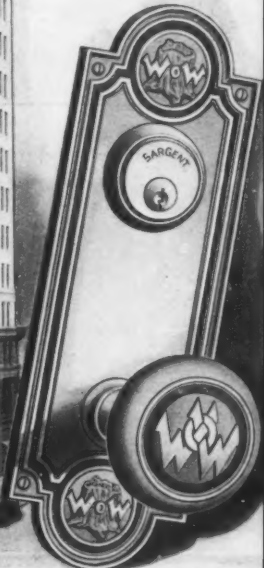
THE AUTOMATIC REFRIGERATING COMPANY

Main Office and Works: HARTFORD, CONNECTICUT

We are the ONLY builders of AUTOMATIC Refrigerating plants and are thoroughly protected by Patents

SARGENT HARDWARE





WOODMEN OF THE WORLD BUILDING
OMAHA, NEB.

MESSRS. HOLABIRD & ROCHE
ARCHITECTS

In accordance with present-day practice it is not unusual to find the headquarters of a fraternal order established in a large and pretentious office building erected by and bearing the name of the order. The selection of **SARGENT** hardware, the design of which may be made to include the emblem of the order, for the equipment of such buildings, is also in accordance with present-day practice.

SARGENT & COMPANY

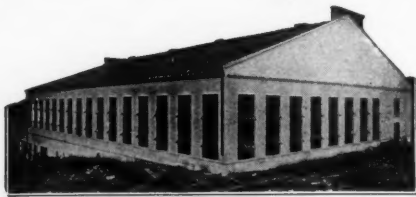
Makers

NEW HAVEN, CONN.

NEW YORK
BOSTON
PHILADELPHIA
CHICAGO

SARGENT HARDWARE is obtainable through representative hardware merchants in all cities.

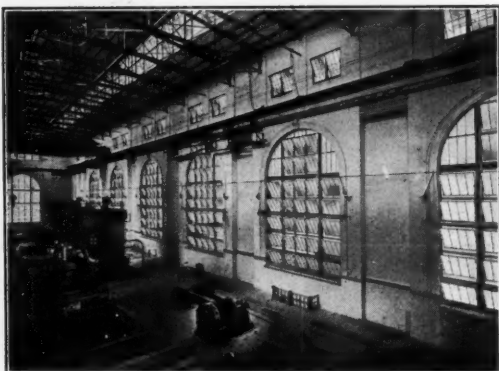
For Maximum Efficiency—Specify



Lupton Steel Sash, Standard Construction.



Pond Continuous Sash in Sawtooths.
Lupton Steel Sash in Side Walls.



Lupton Steel Sash, Power House Type. Sash in the Six
Openings Are Controlled from One Power by
Pond Operating Device.



Lupton Steel Partitions.

Lupton Products

each of which is highly developed in every detail and is constructed for strength, simplicity and permanency.

Behind the Lupton Products is Lupton Service—expert advice on matters pertaining to daylighting and natural ventilation of all kinds of buildings, always freely at your service.

Lupton Steel Sash are made of solid rolled steel members with storm and draft-proof ventilators. In addition to our standard construction we manufacture sash of special construction to meet various requirements, such as Lupton Steel Sash, Power House Type, a unit sash 100% ventilating; Counterbalanced Type, particularly adapted for Forge Shops and Foundries; Projected Ventilator Type, which swings out and does not interfere with use of screens or shades; special sash with circular or camber heads or other ornamental features.

Pond Continuous Sash, made of solid rolled steel members, with all joints welded, gives unequal results in monitor and sawtooth construction because it is weathertight open or closed and permits ventilation at all times without exposing the interior of the building.

Pond Operating Device entirely different in mechanical principle from any other sash operating device. Power is transmitted by tension without loss from friction. Gears are immersed in Albany grease; hinged connections have phosphor bronze bearings. Working conditions are permanent; vibration or settling of building do not affect the device.

These and other Lupton Products are illustrated and described in our catalogue, a copy of which should be in your files.

David Lupton's Sons Co.

Trenton Ave. and Allegheny Ave.

Philadelphia

Sales Offices: Chicago—New York—Pittsburgh

Canadian Manufacturers:

A. B. Ormsby, Ltd., Toronto



Send For It Today

Every Architect should have Toch's Booklet,

"Specifications"

Technically and Practically Written
for Specifying

**TOCH'S
DE LUXE
ENAMELS**

and their application to

**CONCRETE SURFACES PLASTERED SURFACES
NEW WOODWORK OLD WOODWORK METAL WORK**

Each form tersely and plainly written

The Booklet is of value to every one interested in the application of Enamels, and sent to anyone sending request coupon.

TOCH BROTHERS, ESTABLISHED 1848
320 Fifth Avenue, NEW YORK CITY



COUPON FOR FREE BOOKLET, "SPECIFICATIONS"
TOCH BROTHERS, 320 Fifth Ave., New York
Please mail, free of charge, your Booklet, "SPECIFICATIONS"
Name.....
Address.....
A.A.12-18

Architectural Books



THE Book Department of The American Architect has compiled and just received from the printers a new and greatly enlarged catalogue or classified list of books devoted to architecture and allied subjects.

572 titles of books considered to be of greatest value both to the student and practicing architect are listed in this work—and in the majority of instances a sufficiently comprehensive description of the book is given to enable the purchaser to judge as to its scope and value.

To those interested this list will be sent upon request. It should prove an invaluable aid in the selection of additions to an architectural library.

— ADDRESS —

BOOK DEPARTMENT

The American Architect

50 Union Square

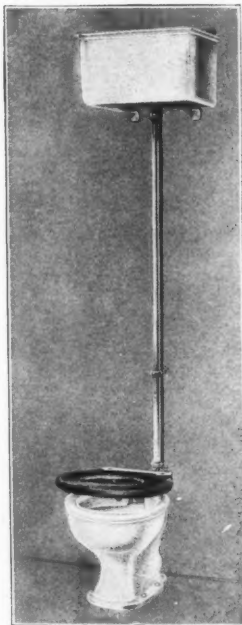
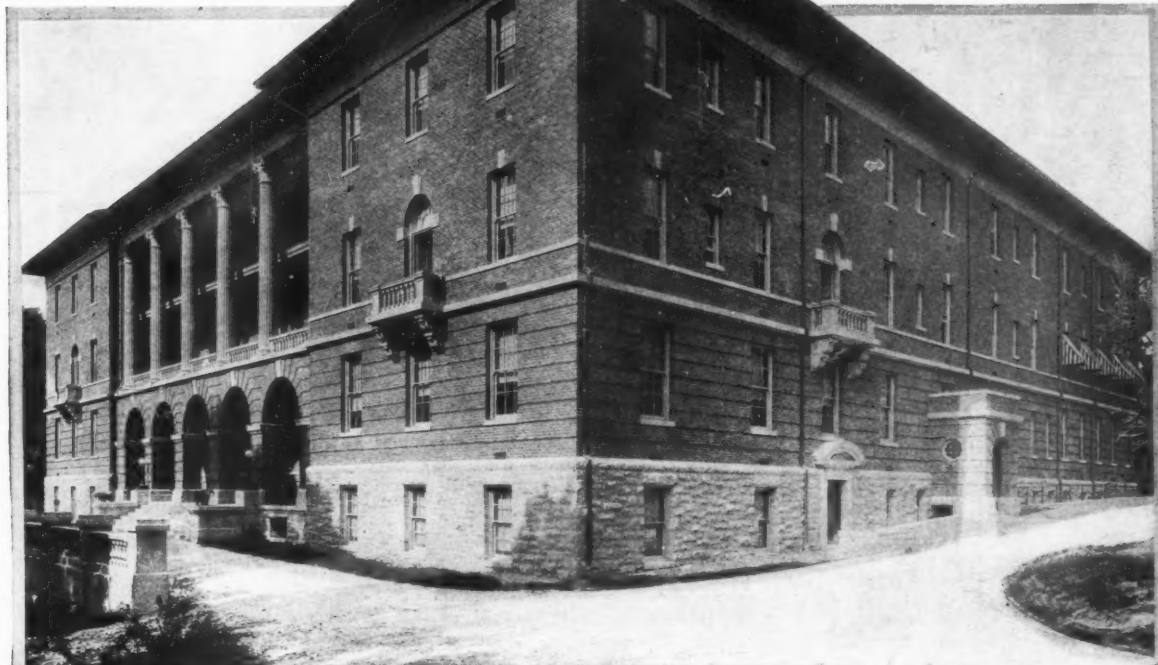
New York City

NOTRE DAME COLLEGE

BALTIMORE, MD.

THOMAS C. KENNEDY
Architect

GEO. S. KIRKLEY
Plbg. Contractor



BRANCHES:

DENVER. - - - COLO.
TRENTON, - - - N. J.
OMAHA, - - - NEBR.
MINNEAPOLIS, - - MINN.
DALLAS, - - - TEXAS
ROCHESTER, - - - N. Y.

WOLFF

Notre Dame College at Baltimore is equipped throughout with the most modern plumbing fixtures from the Wolff factories. The fixtures selected for this building will retain their appearance and their efficiency of function and action throughout the life of the building itself.

ESTABLISHED 1855

L. Wolff Manufacturing Co.

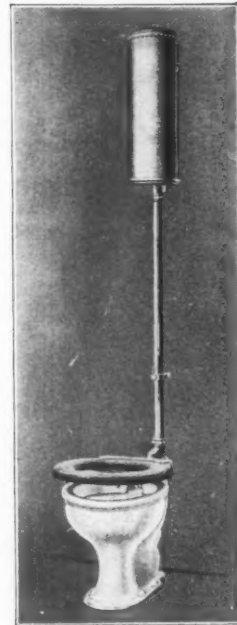
PLUMBING GOODS EXCLUSIVELY

The Only Complete Line Made By Any One Firm

General Offices:
601-627 W. Lake Street

CHICAGO

Showrooms:
111 N. Dearborn Street



BRANCH OFFICES:

ST. LOUIS, - - - MO.
WASHINGTON, - - D. C.
CLEVELAND, - - - OHIO
CINCINNATI, - - - OHIO
KANSAS CITY, - - - MO.
SAN FRANCISCO, - - CAL.
SALT LAKE CITY, UTAH



Better Than A Test

Most building materials can be measured or examined to find out whether they conform to the standard specified in the contract, but there is no simple method of testing the purity of paint.

A laboratory analysis would establish its purity, so would two or three years exposure to weather conditions, but both of these tests are impracticable for the architect.

The architect's assurance that the paint used is absolutely pure is to specify pure white lead and pure linseed oil in one and five-gallon cans bearing the trade-mark of the

Dutch Boy Painter

This well known trade-mark is better than a test. It is a guarantee that paint made from white lead and linseed oil bearing it is positively pure and dependable.

National Lead Company

New York
Cincinnati

Boston
Cleveland

Buffalo
St. Louis

Chicago
San Francisco

(John T. Lewis & Bros. Co., Philadelphia)

(National Lead & Oil Co., Pittsburgh)



Stand Back of Our Deliveries

Six mills rolling Corrugated Bars, a large and complete general stock and local stocks available in fifteen cities, assure a supply to meet any requirement. *Corrugated Bars are the world's standard for concrete reinforcement.*

CORR-CONSTRUCTION

Corr-Construction is dependable and *Fireproof*. A corps of experienced concrete engineers is at all our offices—at your command.

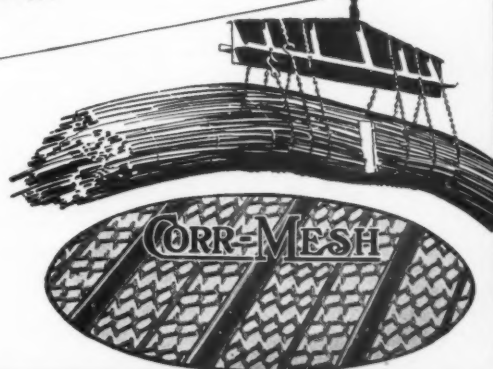


Corrugated Bar Co.

21 Years without a "Failure"

402 Mutual Life Bldg., Buffalo, N.Y.

New York Chicago St. Louis



"BRADFORD PRESSED BRICK"

"Bradford Reds"

"Bradford Ruffs"

IF Architects in general appreciated the opportunity and the medium offered them in BRADFORD REDS and BRADFORD RUFFS to execute their designs, to realize their conceptions, our plants would be unable to supply the demand. If further they were familiar with the fact that BRADFORD REDS and BRADFORD RUFFS are supplied at a price that compares favorably with any good sound brick, and is only a fraction of that asked for poorer brick enjoying temporary popularity, many plants the size of ours would be overtaxed.

Our sales are increasing yearly, and we ask all readers to remember that our specialty is

"RED BRICK"

When you require such a brick, do not fail to write us.

BRADFORD PRESSED BRICK COMPANY

The Red Brick People

Bradford, Pa.



McALPIN HOTEL
New York City, N. Y.

F. M. ANDREWS & CO., Architects
Thompson-Starrett Co., Heating Contractors

This New and Gigantic McAlpin Hotel

has all of the fifteen hundred
rooms heated with 52,000 feet of

UNITED STATES RADIATORS

As the nature of a Hotel makes absolutely necessary, a heating system that can keep all rooms at a regular Summer temperature all through the Winter, the selection for the "largest in the world," certainly confirms all "efficiency and economy" claims made for

THE COMPLETE LINE

The water in the Radiators and the air between the columns circulate with utmost freedom. The heating surface is the maximum in every size of radiators.

The close, iron-to-iron connections and the thorough tests of all parts insure a long life, free from repairs.

There are different designs to harmonize with different decorations; different dimensions to take care of the different size of rooms—but the same advantages of efficiency and economy in every one.

To plan perfectly for all heating problems, architects need the explanatory catalog—

"The Complete Line"—Sent on Request.

UNITED STATES RADIATOR CORPORATION

General Offices, Detroit, Mich.

BRANCHES AND SHOW ROOMS:

NEW YORK.....	3-5-7 West 29th Street	CLEVELAND.....	1419 Schofield Building
PHILADELPHIA.....	122 North 13th Street	BOSTON.....	236 Congress Street
PITTSBURGH.....	4th Ave. and Wood Street	BALTIMORE.....	709 North Howard Street
WASHINGTON, D. C.,	Metropolitan Bank Bldg.	CHICAGO.....	184 North Dearborn Street
DETROIT.....	139 Jefferson Avenue	MINNEAPOLIS,	901 Washington Ave., South
ST. LOUIS.....	14th and Pine Streets	OMAHA.....	916 Farnam Street
BUFFALO.....	Fidelity Trust Building	KANSAS CITY.....	220 East 10th Street



AN OPPORTUNITY FOR ARCHITECTS

to secure in beautiful and permanent form valuable and up-to-the-minute information on a 20th century architectural problem.

GARAGES

The Garage has become an artistic and practical addition to modern homes, country and suburban. The problems presented, and their solution, are completely handled in this remarkable work. There are authoritative articles, many photographs of the most beautiful country and suburban garages, together with plans and illustrations of details, mechanical and artistic.

If you see this work, you will add it to your library. Have a copy sent you on approval. Cloth, 9 x 12 inches, 96 pages, \$4.00 postpaid.

Book Department

THE AMERICAN ARCHITECT

50 Union Square, New York City

The subject of

Yellow Pine's Durability

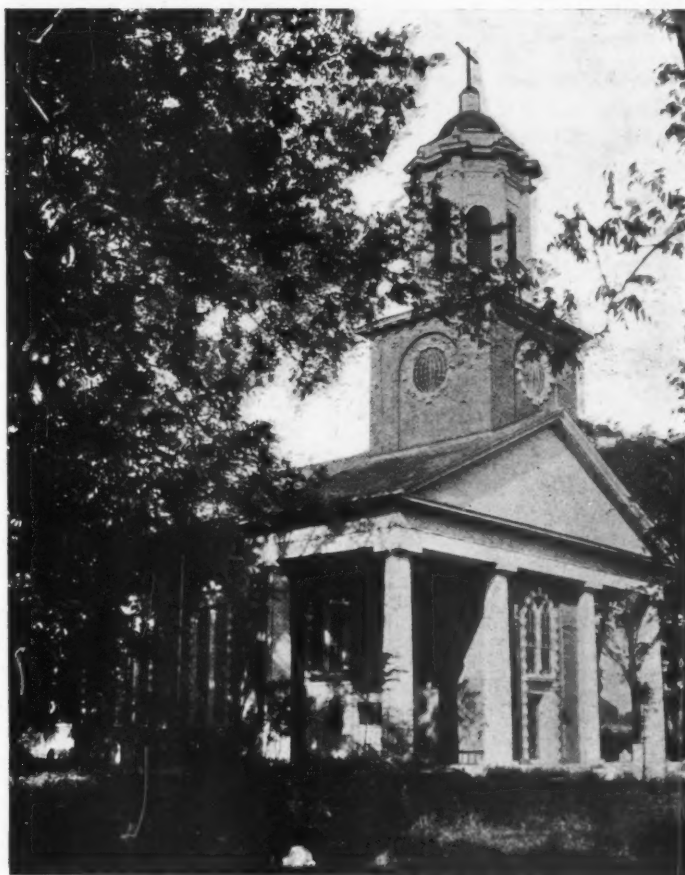
would furnish an ample text for a thousand discourses. Proof of its **Lasting Qualities** is found wherever the buildings of our forefathers were reared.

The building shown in the accompanying illustration was constructed in 1820, and now after **ninety-two years of exposure** even the

large columns supporting the gable are in a **perfect state of preservation**. Could more be asked of any material? Columns hewn from the "everlasting" granite have crumbled in a shorter time and under less trying conditions.

Yellow Pine is the most available wood for all building purposes. It is low in cost, easy to work and well adapted to every use. The strongest and most dependable of structural woods.

Architects and engineers in various parts of the country are availing themselves of our free engineering consultation service. Use it if you want it.



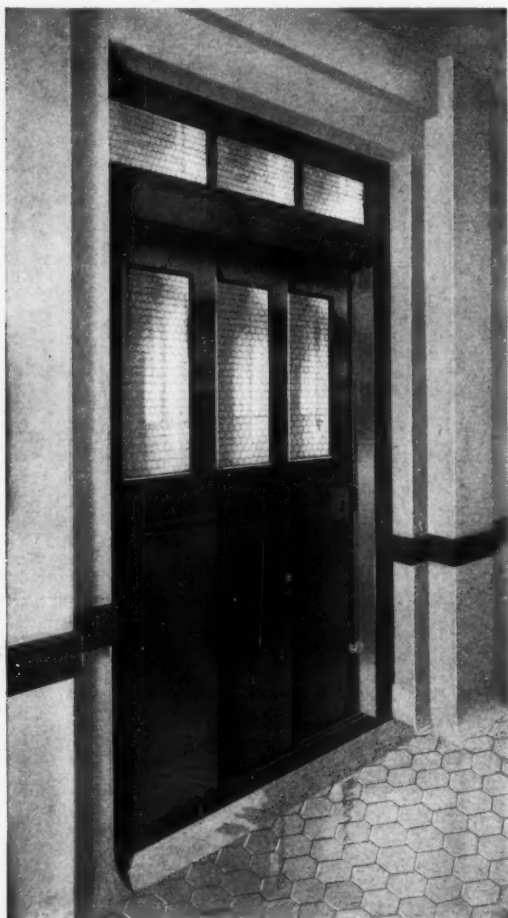
ST. PAUL'S EPISCOPAL CHURCH, AUGUSTA, GA.

Yellow Pine Manufacturers' Association

GEO. K. SMITH, Secretary

Suite 711, Wright Building, St. Louis, Mo.

The Underwriters' Standard



*Triple Elevator Doors in Hopewell Hospital, Minneapolis
Hewett & Brown, Architects*

for fireproof doors is based on a three ply built up wood core covered with sheet tin locked on.

The Thorp way of interpreting this specification is to line the three ply wood core with heavy sheet asbestos and cover the wood and asbestos with good 24 gauge sheet steel locked on by patent process.

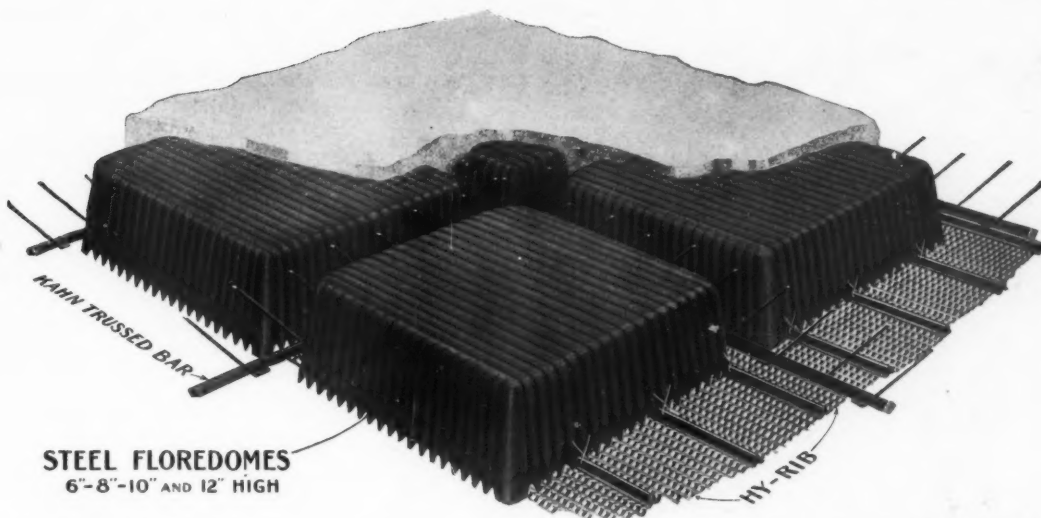
The sheet steel is then heavily copper plated to add elegance of appearance and prevent all rust damage. If it is desired to preserve the harmony of interior finish, the doors are grained to match the wood work.

For ornamental entrance doors we use pure copper or bronze and make a fireproof door which conforms to all the niceties of the architect's designs.

The protection afforded is a wonderful equivalent for the slight additional cost over ordinary exterior and interior doors. Remember—Thorp Fire Proof Doors "make each room a separate building." The fire can't spread.

THORP FIRE PROOF DOOR CO.

Minneapolis, Minnesota



Two-Way Concrete Reinforcement with Steel FLOREDOMES

The reinforced concrete joists extend on all four sides of the FLOREDOMES, carrying the loads in two directions to the supports. The concrete is thus stressed in two directions, giving the greatest possible economy in materials. The joists are deep and narrow so as to require the minimum amount of concrete and steel.

A flat ceiling is obtained by the use of HY-RIB, which extends continuously underneath and provides an ideal surface for plaster.

FLOREDOMES are rectangular dome-shaped steel tiles open on the underside. The deep corrugations on all sides give exceptional stiffness to the FLOREDOMES so as to support the trucking loads coming on them during construction.

COST OF CENTERING CUT DOWN

Only the simplest type of falsework is required with FLOREDOME Construction, making a great saving in cost of centering.

LESS LABOR—GREATER SPEED

FLOREDOMES are very much lighter in weight than terra-cotta tile, besides being three times as large. The amount of floor laid by the average working man is at least doubled and the cost of field labor greatly reduced.

REDUCED DEAD WEIGHT

FLOREDOMES greatly reduce the dead weight of the floor construction and consequently make a material saving in the beams, columns and footings throughout a building.

NO LOSS OF CONCRETE

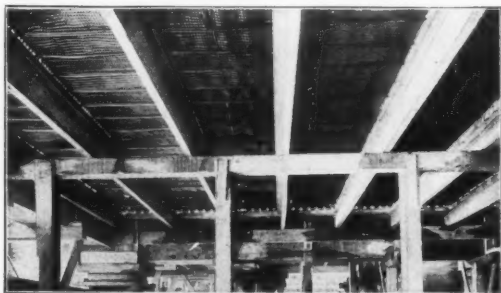
FLOREDOMES are of one piece and absolutely water-tight. No possibility of loss of concrete between joints such as occurs when hollow tile are butted against each other.

SHIPPED ANYWHERE—LOW FREIGHT CHARGES

FLOREDOMES are light in weight, saving greatly in freight, shipping and hauling charges. Can be shipped anywhere. They are slightly tapered so that they can be readily nested to secure a full carload shipment.

NO BREAKAGE

FLOREDOMES being made of steel, there is no loss due to breakage in handling and shipping such as with ordinary terra-cotta tile.



Woodward-Clark Building, Portland, Ore. Simple and economical method of centering required with FLOREDOME Construction.



FLOREDOME Construction, Mt. Taber School, Portland, Ore. Note straight and true lines of FLOREDOMES and accurate spacing of joists.

WRITE FOR LITERATURE ON FLOREDOMES—FREE

Trussed Concrete Steel Company
DETROIT, MICHIGAN

Reinforced Concrete, Hy-Rib and Lath, Steel Sash, Waterproofings, Finishes, Building Specialties.





Valuable Information ON WATERPROOFING PROBLEMS For Architects

The TRUS-CON HAND BOOK contains complete discussion of the latest scientific and practical information on the subject of waterproofing, dampproofing and the application of technical finishes and paints for all structures of concrete, masonry, brick, plaster or steel.

Sent **FREE**, with useful suggestions, if you write us about your proposed work.

WATERPROOFING CONCRETE AT LESS THAN HALF PRICE

By a newly discovered process the strength of TRUS-CON WATERPROOFING PASTE has been wonderfully increased so that only a little more than 1/3 of the former amount is now required per cubic yard.

TRUS-CON WATERPROOFING PASTE CONCENTRATED is the result of a remarkable concentration of the colloidal-forming ingredients, reducing the necessary quantity of paste so that only **FIVE POUNDS OF TRUS-CON WATERPROOFING PASTE CONCENTRATED WILL WATERPROOF A CUBIC YARD OF CONCRETE.**

Tell us about your waterproofing problems and we will furnish valuable suggestions, complete specifications and estimates, **FREE**.

SPECIAL TECHNICAL AND DAMPPROOF COATINGS

The TRUS-CON Line of Technical Coatings includes products for all conditions of dampproofings and interior and exterior decorations of concrete, plaster, brick and general masonry surfaces.

Stops Dusting Cement Floors

TRUS-CON FLOOR ENAMEL, applied with a brush, produces a tough, elastic and durable finish on all cement floors, rendering them washable, stainproof, oilproof and dustless.

Dampproofs and Beautifies Exterior Walls

TRUS-CON STONE-TEX, a liquid cement coating for stucco, concrete and brick,—applied with a brush. Uniform in color results. Absolutely dampproof. Weather resisting. Does not chip off, crack or peel like paint. Becomes an inseparable part of the wall, sealing all pores and filling hair cracks, giving an artistic flat finish hard as flint.

Makes Lighter, Whiter, Brighter Factories

TRUS-CON INDUSTRIAL ENAMEL, a gloss coating of whitest white, with powerful light-reflecting qualities. Insures greatest utilization of all available light. Will not peel, flake or dust off. Readily washed and cleaned. Indefinitely retains its initial whiteness and lustre.

Write for **FREE** Color Card and sample finished block or panel.

TRUSSED CONCRETE STEEL CO.

DETROIT, MICHIGAN



