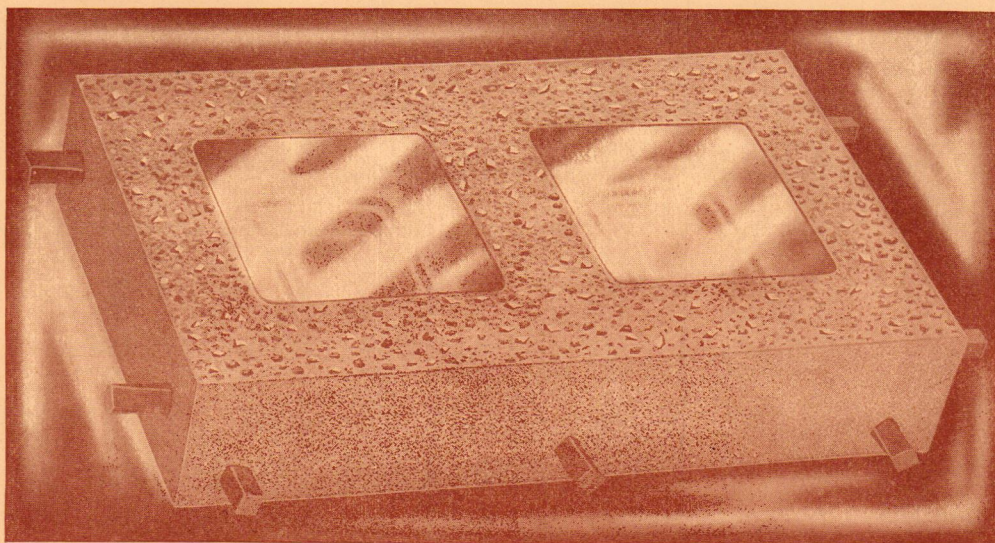


· THE · AMERICAN ·
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· ARTS ·

· PUBLISHED · WEDNESDAYS · IN · N. Y. · -- · FOUNDED · 1876 ·
· VOLUME · CII DECEMBER 4, 1912 NUMBER 1928 ·



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THE AMERICAN ARCHITECT



DETAIL OF PRINCIPAL ENTRANCE

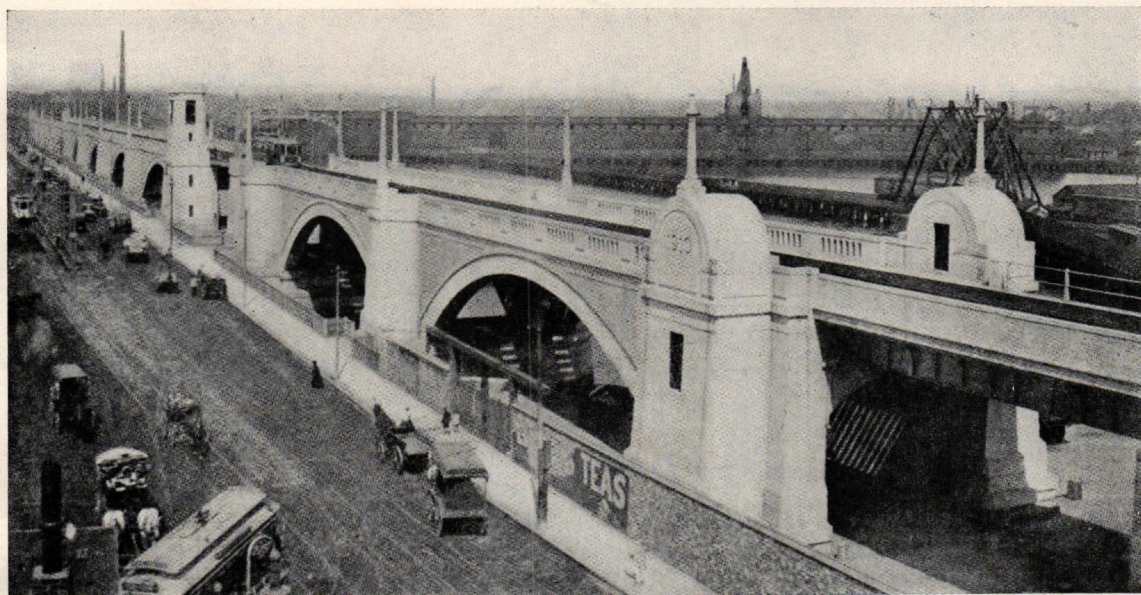
THE BASILICA OF ST. ANDREW, MANTUA, ITALY

THE AMERICAN ARCHITECT

VOL. CII.

WEDNESDAY, DECEMBER 4, 1912

No. 1928



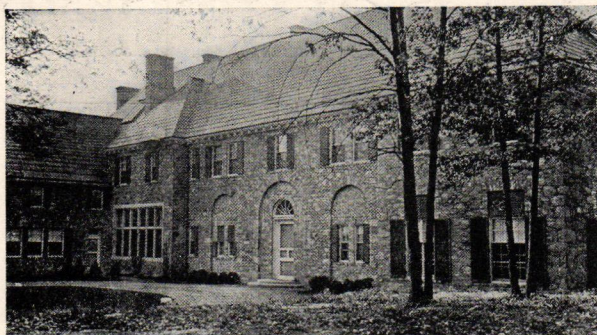
NEW VIADUCT, CHARLES RIVER EMBANKMENT, BOSTON
MESSRS. PEABODY & STEARNS, CONSULTING ARCHITECTS

BOSTON ARCHITECTURAL CLUB EXHIBITION

BOSTON is no exception to many of our cities in its lack of gallery space wherein to properly hang an architectural exhibition. To be sure there are galleries for hire, controlled by private enterprise, where exhibitions might be held, but the expense attending the use of these galleries is in most cases so great as to be beyond the means of societies organized to uplift various branches of the fine arts. In fact while we, as a nation, are proud of our artistic perceptions and "dote on art," we are apt to draw our purse strings when the question of a contribution for a fine arts building is broached, and we go on from year to year doing the best we can to find an opportunity to display our architectural work in a manner befitting its dignity and importance.

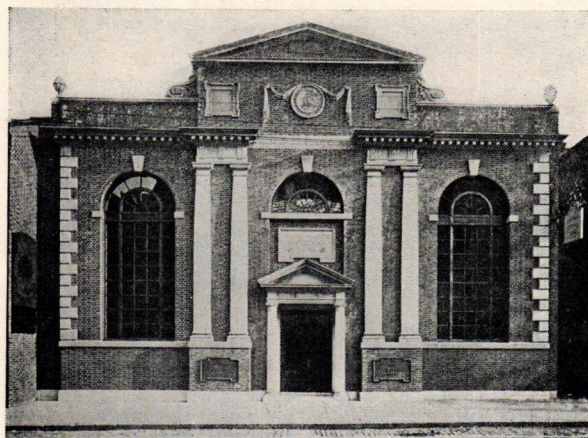
The Exhibition Committee of the Boston Architectural Club were confronted with these conditions and it seemed at one time as if the projected exhibition would have to be abandoned. At the moment, however, when no rooms could be had that were within the means of the Club, the Art Committee of the Boston City Club, in a spirit of rare appreciation, offered its building to the Architectural Club. Here was an opportunity finer than had even been hoped for. The wall space was not only adequate, but the opportunity for architects to show their work to and interest a large and influential body of men, was unsurpassed. The City Club is composed of Boston's representative business men. There in the large clubhouse they congregate each day, a thousand of them or more, and all about them is now spread the exhibition,

THE AMERICAN ARCHITECT



RESIDENCE OF MRS. F. L. W. RICHARDSON
MESSRS. RICHARDSON, BAROTT & RICHARDSON,
ARCHITECTS

in such a way that it must be seen, and being seen is appreciated. It is probable that few of this large body of men would take the time to seek out and visit an exhibition of this kind, but now we find them care-

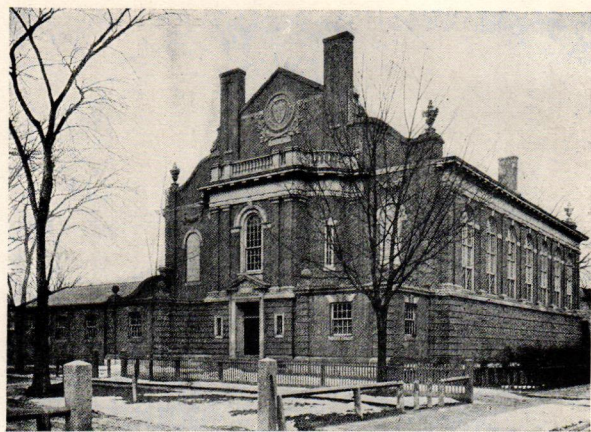


MERCHANTS' NATIONAL BANK BUILDING,
SALEM, MASS.
MESSRS. LITTLE & BROWN, *ARCHITECTS*

fully studying it, discussing its merits from the business man's standpoint and during evenings fraternizing with the architects who have achieved the results here shown. Let it not be inferred that the attendance at the exhibition is confined to members of the City Club. When they loaned their house, they also generously threw it open to the general public, and the result is an attendance such as few exhibitions have enjoyed. Further, the cause of good architecture is being daily advanced in the most satisfactory way and everyone concerned is to be congratulated.

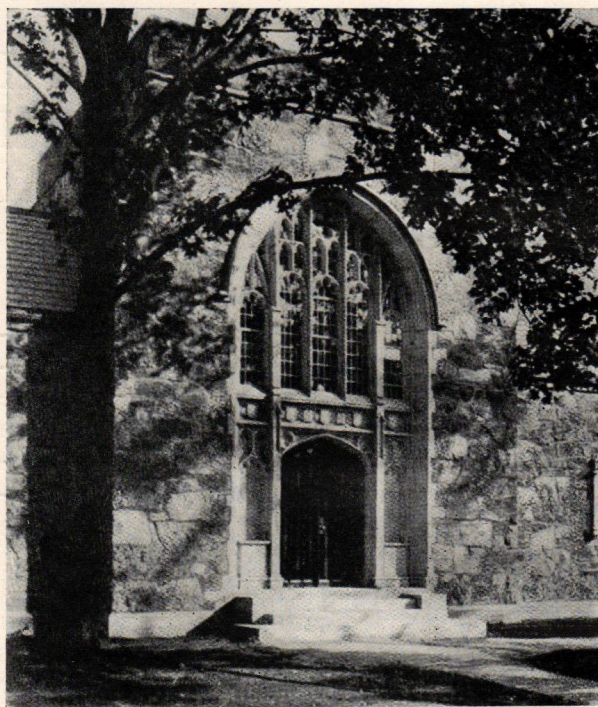
As to the exhibition, there is much to commend. We do not remember a similar gathering of architectural work in recent

years so diversified in its character. Domestic architecture has many times heretofore held so large a proportion of the wall space that the business building, ecclesiastical and collegiate work and other buildings that go to make the city and the town have received little attention.



RANDALL HALL, HARVARD COLLEGE
MESSRS. WHEELWRIGHT & HAVEN, *ARCHITECTS*

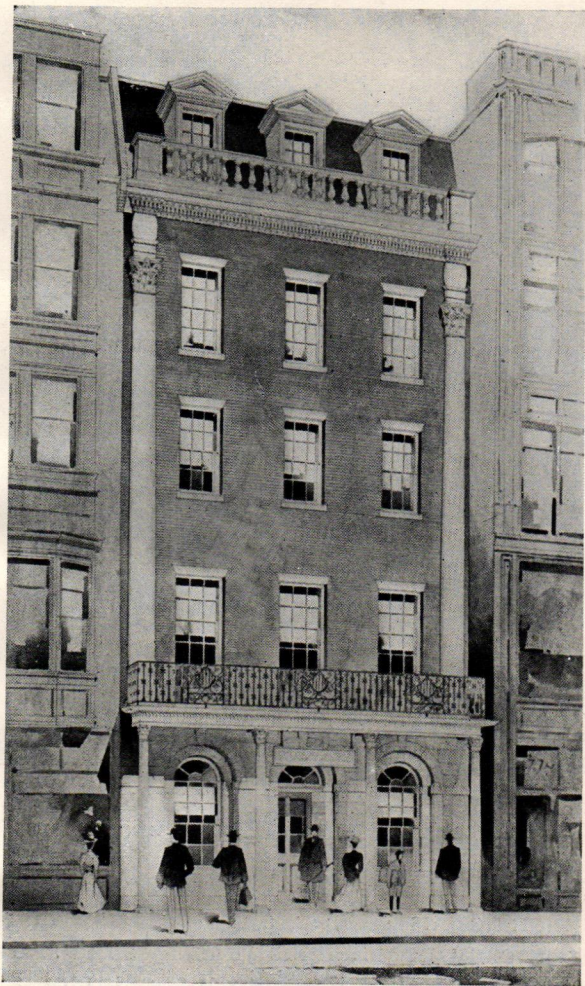
The examples that make up this exhibition have been selected with much judgment and artistic taste, and they are admirably supplemented by the catalogue which con-



DETAIL OF ENTRANCE
EPISCOPAL THEOLOGICAL SCHOOL LIBRARY, CAM-
BRIDGE, MASS.
MESSRS. SHIPLEY, RUTAN & COOLIDGE, *ARCHITECTS*

THE AMERICAN ARCHITECT

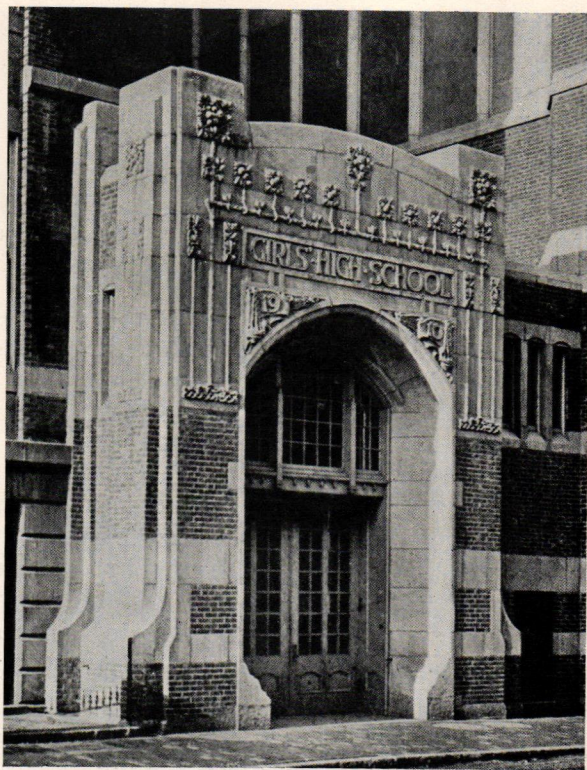
tains in many instances working drawings as a further illustration of the subjects exhibited. This feature is much to be commended. It affords the technical visitor an opportunity at his leisure to study with care subjects at the exhibition that have interested him. The plan would seem to be a good one. If it is necessary on account of limited wall space to omit the



SKETCH OF NEW CHICKERING BUILDING, TREMONT STREET, BOSTON

MESSRS. RICHARDSON, BAROTT & RICHARDSON,
ARCHITECTS

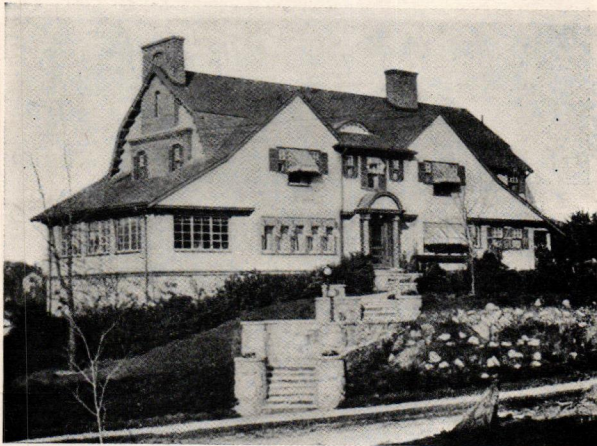
technical drawing, or if it is thought advisable—and this seems of late years to have been the judgment of committees, to make an exhibition that will interest the layman—to adhere largely to a pictorial representation—the technical man will find much satisfaction in this catalogue that so admirably supplements to him the interest aroused by the pictorial suggestion of the exhibition.



ENTRANCE GIRLS' HIGH SCHOOL, BOSTON

MESSRS. COOLIDGE & CARLSON, ARCHITECTS

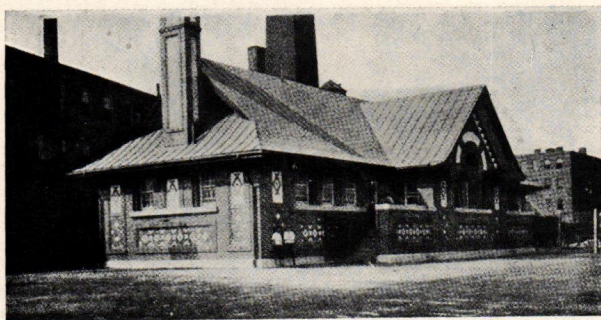
Commercial Boston is growing apace and its business buildings already built and projected indicate that business men are beginning to appreciate the value of good architecture. With such structures as the Columbian Life Building, the Minot Building, the Chickering Building and many other excellent examples, shown at this exhibition, the artistic growth of the city in its business district becomes assured. It affords an opportunity to appreciate the



A HOUSE IN NEWTON, MASS.

MESSRS. NEWHALL & BLEVINS, ARCHITECTS

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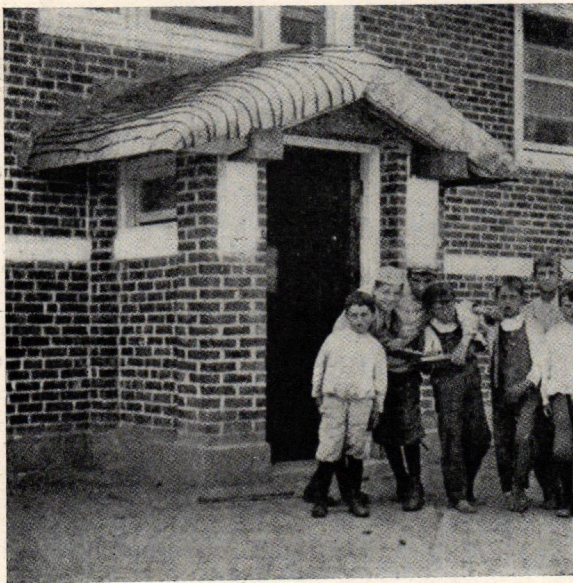


BUILDING FOR BOSTON METROPOLITAN PARK COMMISSION

MR. WILLIAM DOWNS AUSTIN, ARCHITECT

part that architects take in these days in the æsthetic development of cities, and how the work of the profession is leading to higher and better ideals, that part of the community that it has been customary to regard as sordid and only affected in its enthusiasm by the stresses of trade and barter.

To specifically note in a critical way the various exhibits at the City Club would be, within the space available, impossible.



DETAIL OF PARK BUILDING FOR BOSTON METROPOLITAN PARK COMMISSION

MR. WILLIAM DOWNS AUSTIN, ARCHITECT

Every frame presents its contribution of interest. To the man in practice the work appeals in a way to arouse enthusiasm and merit the praise that the true artist always accords to good art. In it the student



DOORWAY OF A HOUSE, TAUNTON, MASS.

MESSRS. PARKER, THOMAS & RICE, ARCHITECTS

finds much to make him thoughtful and stimulate his efforts; and the busy man, as already noted, finds time to study. In short, the general public made up of all these and others seems to evince a healthy and genuine interest in the pictures which goes to prove what we have been trying to point out, that it is a very good exhibition, and one that will undoubtedly result in much benefit to the community and the profession alike.

THE AMERICAN ARCHITECT



1911-1912

ERNEST FLAGG PRESIDENT 109 Broad St.	A. B. TROWBRIDGE RECORDING SECRETARY 114 E. 28th St.
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REPORT OF THE JURY

CLASS "A"—I PROJET (Problem in Design)

"A CITY RESIDENCE"

If more students had frankly departed from the symmetrical solution of this problem the grade of work would have been

much higher and the students would have derived greater benefit from this excellent programme. As it was the medals all went to the unsymmetrical solutions.

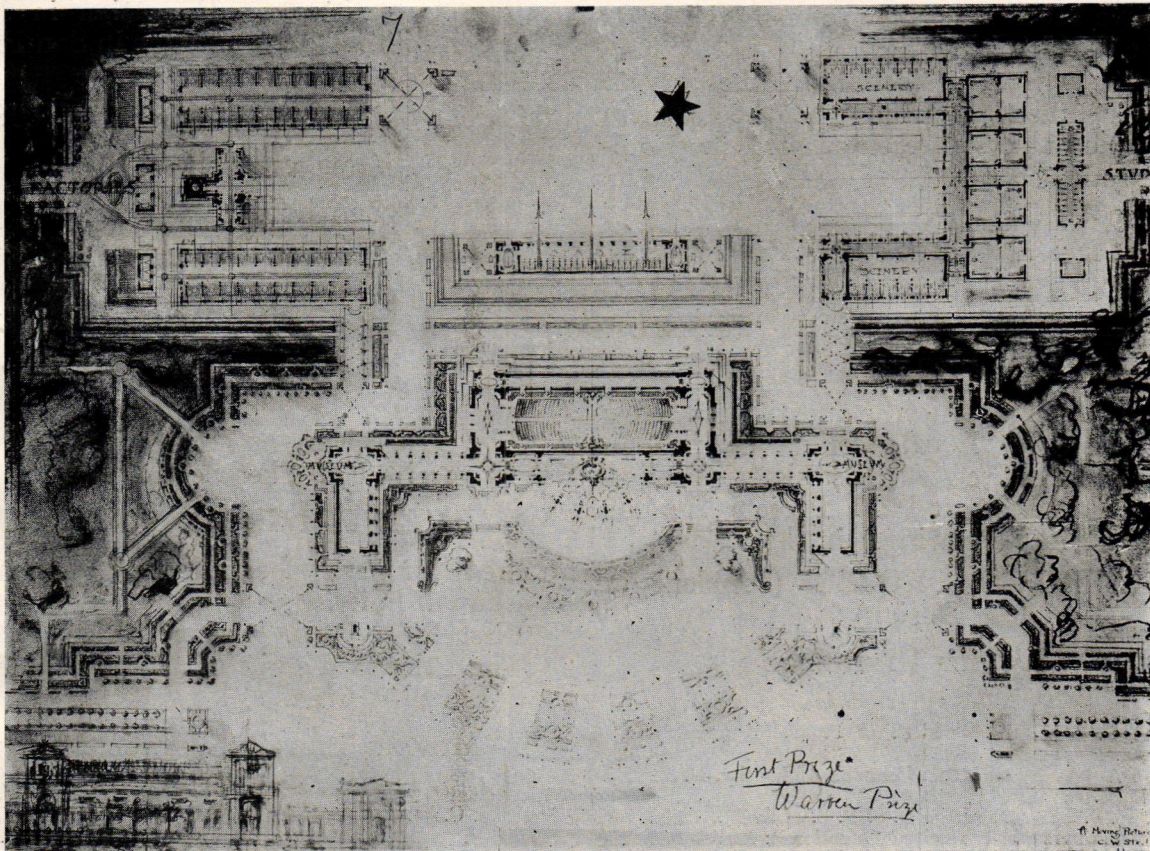
It is not out of place at the beginning of the term to call attention to the necessity of students spending more time on their original sketches. They seem to think that they can hand in any sort of work at the outset and trust to their teachers to pull them out of trouble later. This is the wrong attitude and is strongly discouraged by the Committee on Education.

Students may also be interested in knowing that this is the first judgment in which the names of all competitors have been covered before the time of judgment. This practice will be followed hereafter.

WARREN PRIZE COMPETITION

"A MOVING PICTURE ESTABLISHMENT"

The evident desirability of some separation between the publication and manufacturing parts of this Moving Picture

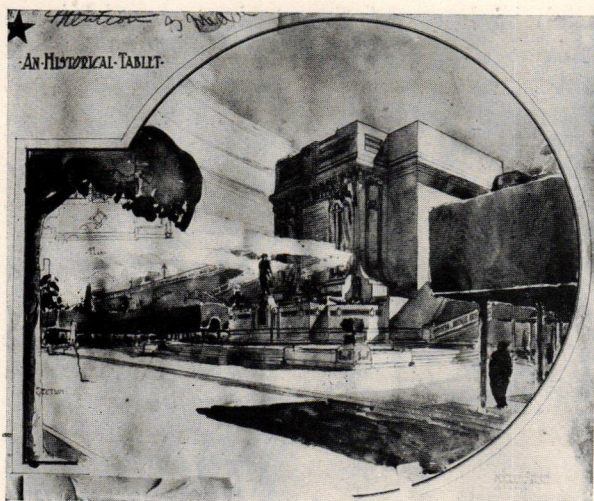


C. W. STEDMAN,

FIRST PRIZE,

U. OF PENN. SCHOOL OF ARCHITECTURE

A MOVING PICTURE ESTABLISHMENT



THIRD MEDAL

W. C. STANTON, PHILADELPHIA ATELIER, UNIV. OF PENNA.

Plant called for in the Warren Prize Programme caused the most marked difficulty in securing a solution of the problem.

Only one really good solution was presented, that of C. W. Stedman, receiving first prize. Here the desired separation was shown without interfering with the effective relation of the two essential parts of the problem.

There was no objection by the jury to an unsymmetrical solution of the problem but none of those presented met the conditions satisfactorily.

OFFICIAL NOTIFICATION TO S.B. A.A. STUDENTS OF AWARDS MADE IN THE JUDGMENT OF NOVEMBER 19TH, 1912

The Committee on Education in New York and its Local Committee in San Francisco received 107 Esquisses (Preliminary Sketches) and 70 Projets Rendus (Sets of Final Drawings) in the

CLASS "A"—I PROJET (Problem in Design)

A CITY RESIDENCE

Author	Award	Atelier	City
Stedman, C. W.	1st Medal	U. of P. S. of Archt.	Phila.
Barney, J. P.	1st Medal	"	"
Schulz, P.	1st Medal	Columbia University,	N. Y. City
Shenfield, L. L.	2d Medal	"	"
Hough, W. J. H.	2d Medal	U. of P. S. of Archt.,	Phila.

The following students received "Mentions": Atelier Bennett-Rebori, Chicago: R. Wolff; Boston Archtl. Club, Boston: W. L. Smith; Carnegie Tech. Schs., Pittsburgh: M. Jones, L. H. Persley, A. N. Steinmark, J. B. Hays, F. C. Disque, L. C. Dillenback, J. V. Wilson, A. H. Good; Cincinnati Archtl. Club, Cincinnati:

nati: C. R. Strong; Columbia University, N. Y. City: L. B. Huesmann, H. V. Schwanenflugel, W. Hesse, A. H. Knappe, E. F. Fanning, J. J. Ide, H. B. Brainerd, W. Simmons, P. T. Shutze, M. J. Mead, O. R. Koechl, W. L. Risley, E. St. J. Griffith, E. Freudenfels; F. N. Eremson Atelier, Peoria, Ill.: A. B. Dunham; Atelier Hornbostel, N. Y. City: C. W. Conway, C. E. Fetherston, G. Holland; Phila. Atelier, U. of P., Philadelphia: F. W. Hauptle, F. A. Muhlenberg; Atelier Swales, Montreal: H. Sternfeld, J. H. Taylor; Univ. of Pa., School of Archt., Philadelphia: W. C. Tyler, S. A. Love, Jr.; Atelier Ware, N. Y. City: L. J. Barrett, E. H. Kleeman, L. Fentnor, F. C. Van Name; Atelier Brown, S. F. A. C., San Francisco: C. I. Warnecke, T. H. F. Burditt; Univ. of California, San Francisco: S. L. Jory, G. E. Comfort, A. Jory.

The Committee on Education in New York and its Local Committee in San Francisco received 52 Sketches in the CLASS "A"—I ESQUISSE-ESQUISSE (Rendered Sketch)

"AN HISTORICAL TABLET"

Author	Award	Atelier	City
Stanton, W. C.	3d Medal	Phila. U. of P.,	Phila.
Knight, E. H.	Mention	Bir. Soc. of Archts.,	Birmingham.
Flawn, S. C.	"	Brown, S. F. A. C.,	San Francisco
McCullough, H. M.	"	Carnegie Tech. Schs.,	Pittsburgh
Wilson, J. V.	"	"	"
Jones, M.	"	"	"
Stanton, J. E.	"	c/o Warren & Wetmore,	N.Y. City

The Committee on Education in New York and its Local Committee in San Francisco received 125 Sketches in the CLASS "B"—I ESQUISSE-ESQUISSE (Rendered Sketch)

"A ZOOLOGICAL MUSEUM"

Author	Award	Atelier	City
Brugger, J. T.	1st Men.	Phila. U. of P.,	Philadelphia
Schene, L. H.	Mention	Columbia Univ.,	N. Y. City.
Morgan, L.	"	Hirons, N. Y. City.	"
Dunham, P. C.	"	"	"
Wigham, E. H.	"	Phila., U. of P.,	Philadelphia

The Committee on Education in New York received 52 Sketches in the

WARREN PRIZE COMPETITION

offered for general excellence in planning a group of buildings.

First Place, \$50. Second Prize, \$25.

The Prize is the gift of Messrs. Whitney and Lloyd Warren.

"A MOVING PICTURE ESTABLISHMENT"

Author	Award	Atelier	City
Stedman, C. W.	1st Prize	U. of P. Sch. of Arch.,	Philadel.
Schulz, P.	2d Prize	Columbia University,	N. Y. City

The following students received "Mentions" for which no values are awarded:—Columbia Univ., N. Y. City: P. T. Shutze; Phila. U. of P., Phila.: E. H. Wigham, Atelier Ware, N.Y. City: R. M. Johnson.

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VOL. CII DECEMBER 4, 1912 No. 1928

PRETENDERS IN THE PROFESSIONS

IT is probably impossible for any profession or calling to entirely purge itself of parasites and impostors who in the first instance attach themselves to it and extract a more or less precarious living from a part of the main structure not readily reached or perfectly protected and in the second, prey upon the public direct. The medical profession, for example, has its quacks of two principal varieties: First, those who undertake to furnish assistance to timid or uncertain members; second, those who make their appeal to afflicted and suffering humanity. And when we consider the law we find the Bar Association busy with cases of unprofessional practice and illegal efforts of "shysters" and quondam attorneys no longer entitled to confidence. Even the ministry is obliged from time to time to take action against men whose connection with and activities in the church discredit the calling.

Under these circumstances, it is not perhaps surprising that we have had our attention called to a number of instances of unprofessional architectural practices that have apparently been flourishing to some extent during recent months. One of these finds expression in the form of a photographic company, which offers to supply architects with plans, photographs, details, etc., at a nominal figure, conveniently providing

a place in which the architect making use of the "service" can place his own name and so fulfill his client's requirements with practically no expense to his own office. Another consists of a circular issued by a concern designated as "architects and engineers," and the proposal is made to furnish "unparalleled professional architectural services at half the standard charges." Still a third instance claiming attention is that of an architect (?) who is making use of the plans drawn by a reputable member of the profession to secure work from clients requiring similar buildings. The plan of operation includes the erection of a building in accordance with the plans selected as nearly as he can interpret them, with an obvious saving in cost to himself and a reputed saving to client.

Of course, denunciation of these practices is superfluous among reputable members of the profession. They are simply the manifestations of a condition that has no doubt existed to an even greater extent in former years than at present and our attention is attracted to it more by reason of the methods used by these outlaws to secure victims than by any increase of unprofessional practice.

The problem, while not a new one, seems to be how this sort of "practitioner" can be effectually suppressed. Obviously the control of the variety which lives on the profession, itself, lies with the profession.

If members generally would refuse to make use of the services offered, would take every opportunity to discourage the practice, and would in fact adopt active measures to eradicate it rather than passively submit to, or ignore its irritations, an end would be put to it in short order.

As to those who masquerade as architects and prey upon the public, the suppression of their activities is not so easily accomplished. An apparent solution of this phase of the problem lies in the education of the public to a point where it will not longer be deceived. This work seems to be going forward under the direction of the American Institute, and it is hoped that it will be added to and amplified until a general understanding by the masses of the questions involved will make it impossible for any but competent, reputable architects to enjoy the confidence or commission

THE AMERICAN ARCHITECT

of any owner requiring architectural service. It would also seem of advantage to accompany and supplement this educational work with persistent efforts to secure the enactment of uniform legislation throughout the country fixing proper standards for admittance to a profession upon the wise and safe practice of which our future development to a very large degree depends.

RESPECT FOR GOOD ARCHITECTURE

SIGNIFICANT of the growing appreciation of good architecture and its value, particularly when associated with historic tradition, are recently published articles in Baltimore papers protesting against the demolition of one of the earlier school houses in Baltimore, to prepare the way for a more modern structure. A protest by a number of members of the profession against the razing of the building, which they state is a unique example of good architecture and one in which the city should take pride, is strongly endorsed by the press.

It is wisely held that "Baltimore is not so rich in art or architecture that it can afford to sacrifice things which the best opinion urges it to keep."

Thoughtful men of artistic perception will agree with this statement, not alone as applied to Baltimore but to every city in this country. The rapid growth of certain sections in our larger cities is causing the tearing down of good architecture which is replaced, unfortunately, with much that is but little better than mediocre. Such condition is however to a degree inevitable and probably cannot be wholly checked. Progress in municipal growth may not be denied, even when it marks the passing of the good in architecture in certain instances, but it is worthy of note that, as in a number of recent cases, the public conscience has been quickened by an appreciation of art acquired in the last decade till few opportunities are now omitted by the people, to stay the hand of the wrecker where possible and conserve the good in architecture whenever it can be reasonably and wisely done.

ANGLO-MANIA IN ARCHITECTURAL JOURNALISM REBUKED BY AN ENGLISH CONTEMPORARY

Even at the risk of being again criticized by our esteemed friend and co-worker, *The Architectural Review* of Boston, we cannot refrain from "clipping" a paragraph from *The Architects' and Builders' Journal* of London. Of course, this "clipping" habit can be overdone, and no doubt we have at times quoted material from other journals that was not of especial interest, particularly to *The Architectural Review*, but if such is the case we trust the following excerpt will not be considered another such instance. It reads:

I have just come across a sentence in the *Architectural Review* of Boston which makes one tingle with elation. For here we find—passing strange—something being said in praise of our own work. We have long since become accustomed to hear how much better they do

these things in France, and to learn, within recent years, how poor our own architectural efforts are in comparison with what is being done in the States. It is nothing less than a shock, then, to read the following in a review of current architecture periodicals: "No one can follow the English magazines month after month without being impressed by the great variety of the work done in that country, and also by the frequent recurrence of designs of a more original and virile type than seems to be produced in American offices." Is this merely another instance of the prophet not being without honour save in his own country, or are we really doing better work than we are accustomed to believe? Have American architects had a surfeit of Letarouilly, and are they satiated with the baths of the Romans?—so that our own buildings, based on no such grand models, have a more "original" and "virile" appearance? There may be a germ of truth in that suggestion, but the whole truth lies, I fear, in less happy relation to ourselves. Except in domestic work, we are a long way below the American achievement, and the writer referred to would find it as difficult to substantiate his opinion by any large selection of contemporary civic work in this country as he would find it difficult to get American colleagues to confirm his own views on the subject.



MINOT BUILDING, BOSTON, MASS.

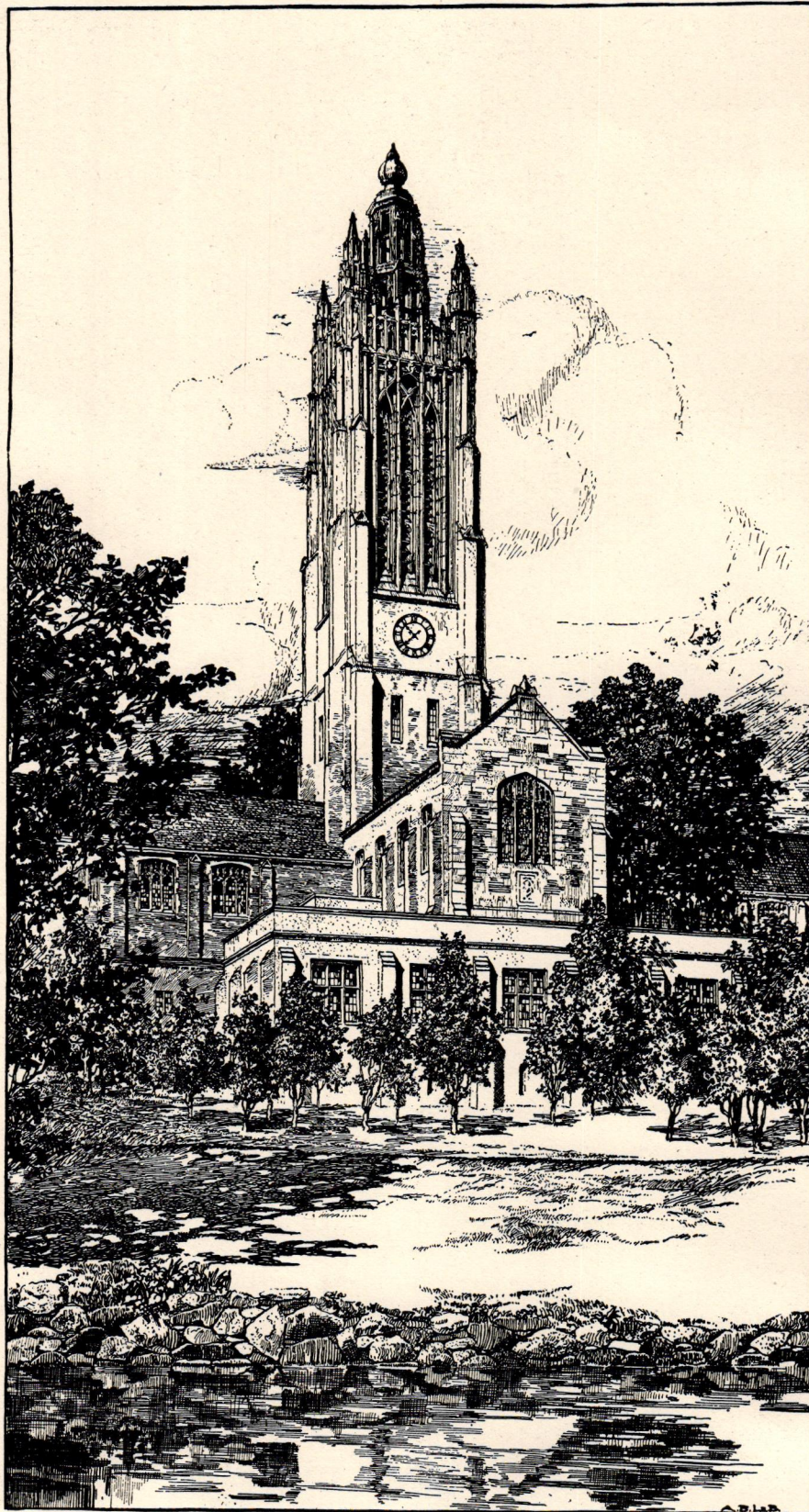
MESSRS. PARKER, THOMAS & RICE, ARCHITECTS

EXHIBITION OF BOSTON ARCHITECTURAL CLUB



SKETCH—THE GEORGIAN RESTAURANT, BOSTON
MR. C. H. BLACKALL, ARCHITECT

EXHIBITION OF BOSTON ARCHITECTURAL CLUB



SKETCH OF TOWER OF PERKINS INSTITUTE
WATERTOWN, MASS.

MR. R. CLIPSTON STURGIS, ARCHITECT

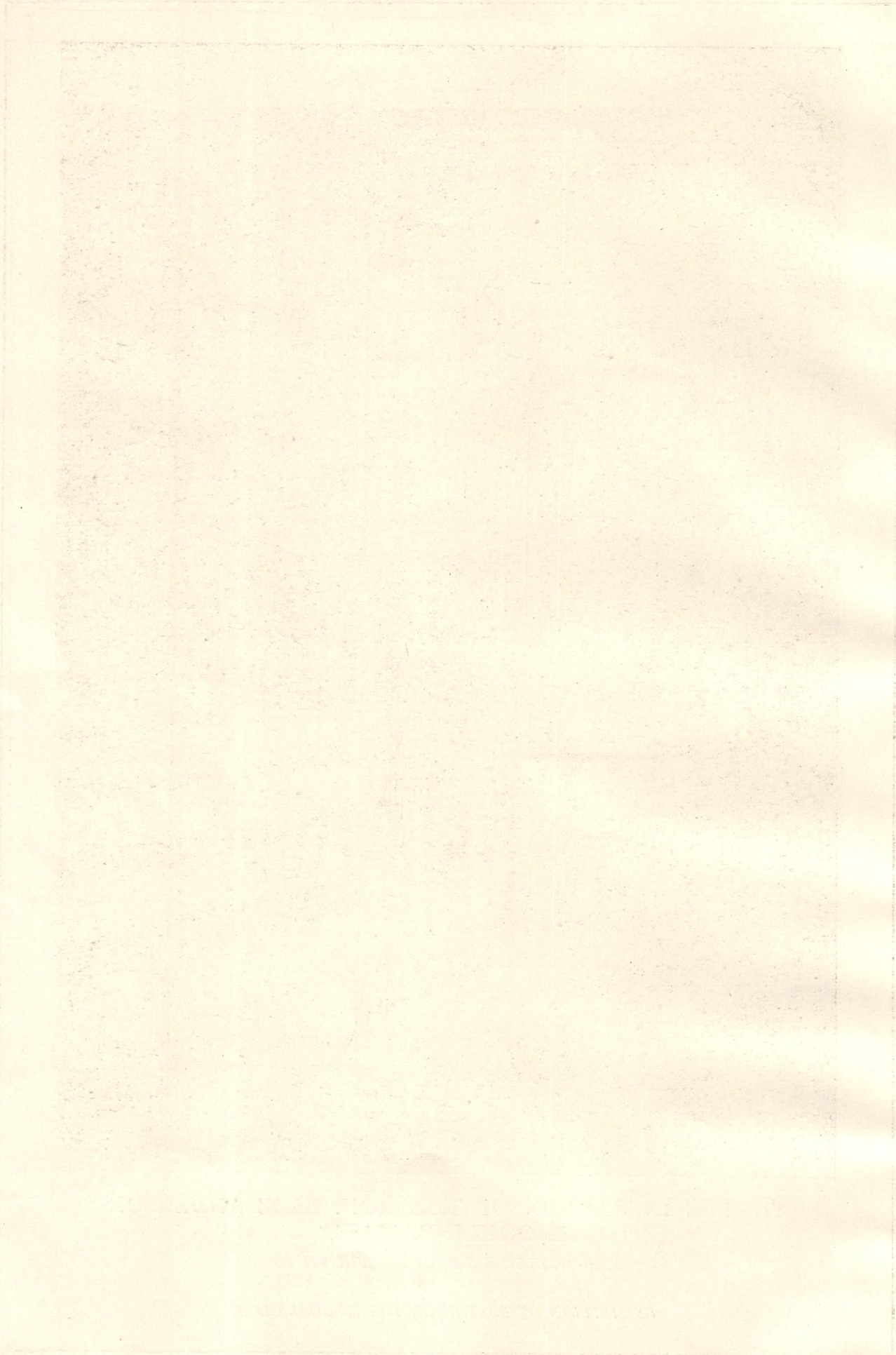
EXHIBITION OF BOSTON ARCHITECTURAL CLUB



TEMPLE IN GARDEN OF THE HON. LARZ ANDERSON
BROOKLINE, MASS.

MESSRS. LITTLE & BROWN, *ARCHITECTS*

EXHIBITION OF BOSTON ARCHITECTURAL CLUB

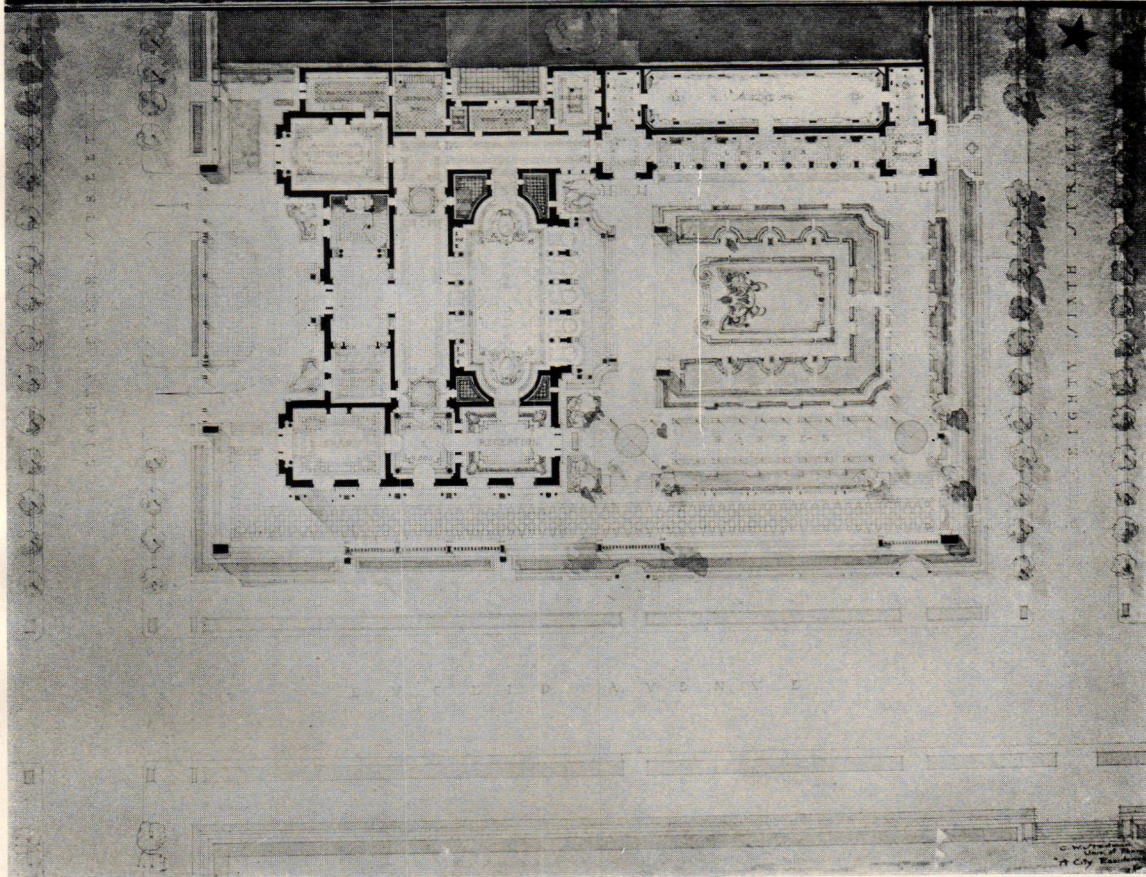
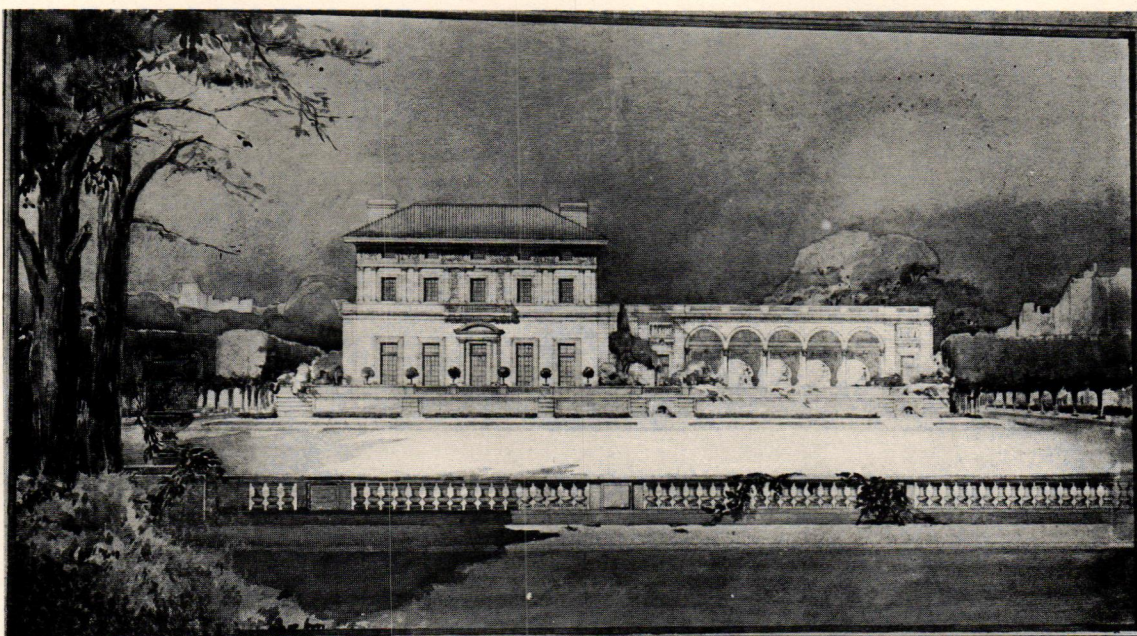




STAIRWAY IN HOUSE OF MRS. F. L. W. RICHARDSON

MESSRS. RICHARDSON, BAROTT & RICHARDSON, *ARCHITECTS*

EXHIBITION OF BOSTON ARCHITECTURAL CLUB



C. W. STEDMAN

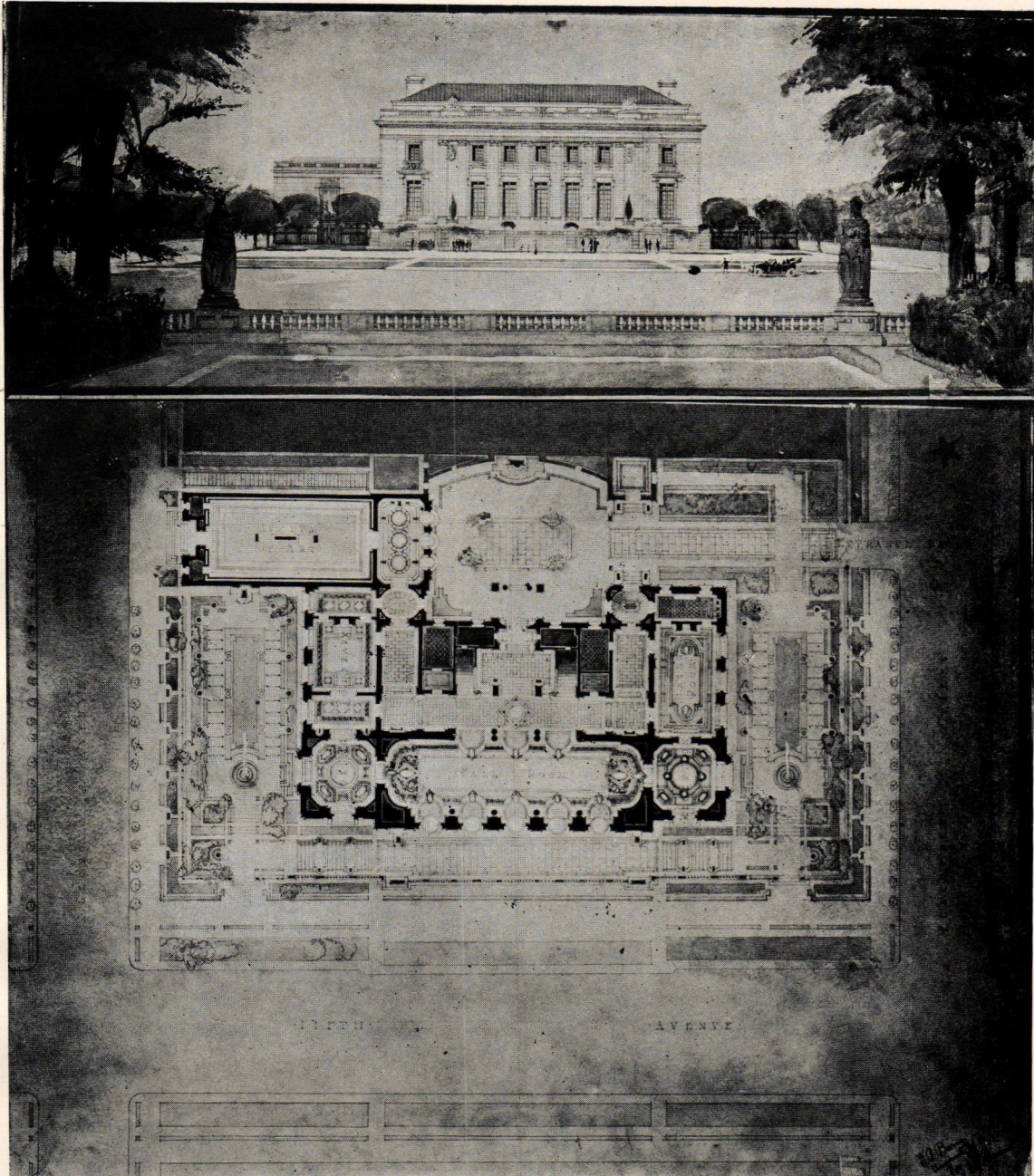
FIRST MEDAL

U. OF PENN. SCHOOL OF ARCHITECTURE

CLASS "A"—I PROJET (PROBLEM IN DESIGN)

A MOVING PICTURE ESTABLISHMENT

STUDENT WORK, SOCIETY OF BEAUX-ARTS ARCHITECTS



J. P. BARNEY

FIRST MEDAL

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CURRENT NEWS AND COMMENT

WASHINGTON STATE CHAPTER, A.I.A.

The annual meeting of the Washington State Chapter, A. I. A., was held in Seattle, November 6, 1912. The regular program for the meeting began with an address by President Willcox on "Architecture as a Fine Art." This was followed by the annual report of the secretary and reports of important committees. The next order of business was the election of officers. The following were chosen for the ensuing year:

President, W. R. B. Willcox; Vice-Presidents, James Stephen, Seattle; George F. Gove, Tacoma; Albert Held, Spokane; Secretary, Charles H. Alden; Treasurer, Harlan Thomas.

D. R. Huntington was elected a member of the Council for three years, the other members in addition to the newly elected officers being D. J. Myers and Carl F. Gould.

W. J. Sayward, W. M. Somervell and John Graham were elected delegates to the American Institute Convention.

NEW JERSEY CHAPTER, A. I. A.

On the occasion of the November meeting of the New Jersey Chapter, American Institute of Architects, held at Newark, a complimentary dinner was tendered to Mr. Hugh Roberts, the newly elected president, and as an appreciation of his work as secretary and treasurer of the Chapter for the past twelve years a gift in the form of a handsomely bound volume in leather was presented to him.

THE ARCHITECTURAL SOCIETY OF THE UNIVERSITY OF PENNSYLVANIA

The Architectural Society of the University of Pennsylvania recently held a smoker in the "Grub Street Theatre," in the Dormitory Quadrangle. About two hundred men were present. The principal speakers were Professor Warren P. Laird, the head of the Architectural School, and Professor Paul P. Cret.

THE PROPOSED COPLEY SQUARE, BOSTON, IMPROVEMENT

Mr. Frank A. Bourne's model of the proposed Copley Square Improvement, has been placed on exhibition in the Aldermanic Chamber at City Hall in Boston, for inspection by the Municipal Art Commission. Mr. Bourne was commissioned by the city to devise and submit a scheme for this improvement and the model above referred to is the result of his labors. The proposed plan contemplates an outlay of about \$450,000.

TACOMA SOCIETY OF ARCHITECTS

At a recent meeting of the Tacoma Society of Architects, the following officers were elected for the ensuing year:

President, Luther Twitchell; vice-president, Earl N. Dugan; secretary-treasurer, Roland C. Borhek.

BOOK NOTE

GREEK REFINEMENTS. Studies in temperamental architecture. By William Henry Goodyear, M.A., Curator of Fine Arts, Brooklyn Institute Museum. Full cloth, 248 pp. size 8½ x 12. The Yale University Press, New Haven, Conn.

It seems remarkable that the architectural refinements introduced by the Greeks should for so long a time have escaped observation by scholars of different periods, who have given so much study to the subject of Greek architecture.

It was not until about 1837 that the German architect, Hoffer, and the English architect, Penne-
thorne, observed certain peculiarities of horizontal curvature in the Parthenon. Some seven years after Pennethorne published a pamphlet in which he described his observations, and in 1878 he incorporated these observations of horizontal curvature in a work on "The Geometry and Optics of the Ancients." In 1851 Penrose published a most exhaustive description of the facts relating to the refinements present in the Parthenon and other Athenian buildings, but his theories as to explanation require serious revision.

The publication of measurements relating to the Parthenon was originally received by modern architects with incredulity, and the subject has until recently failed to command the serious attention to which it is unquestionably entitled. Probably the one thing that has prevented, more than anything else, acceptance and adoption in practice of these elements of architectural refinements has been the method of practice of modern architectural design, which in modern times seems always to have assumed geometrical regularity and mathematical accuracy as the necessary and natural condition of all "correct" architecture.

During recent years Professor Goodyear has carried his research into many buildings and established the presence of architectural refinement in mediæval cathedrals beyond peradventure. He has also made substantial additions to the knowledge of ancient horizontal curvature. The arguments set forth, as to mediæval churches, accompanied by a very careful series of measurements and many photographs, have been presented in several issues

THE AMERICAN ARCHITECT

of *THE AMERICAN ARCHITECT* and are doubtless in a measure familiar to our readers. The preparation of the present work, the author states, is, in a sense, introductory to a discussion of his own observations and research to be embodied in a later work, as the Greek temples are too far apart from the mediæval cathedrals to be coupled with them in a single volume.

In this first volume, treating of Refinements in Greek architecture, the author has set down with much clearness the various theories advanced to explain horizontal curvature of the Greek temples and among these the contention that the curvatures existing were introduced in order that the lines in which they occurred might be made to appear actually straight and thus it was supposed correct an optical effect of downward sagging. Approaching this, and other contentions, Professor Goodyear states:

"In spite of the neglect with which the Greek refinements have been treated and the errors about them which have been widely circulated, there is no doubt that in some cases they were modulations designed to please the eye by avoiding the inartistic effects which attend formal monotony in art; that in other cases, they were modulations intended to suggest and accent desirable effects, and that in still other cases, they were modulations intended to avoid unpleasant effects, such modulations being based on the knowledge that mathematical accuracy as to correspondence in detail is in itself undesirable and is an inconceivable aim in good art."

The reader will be interested in following throughout the work the proofs advanced in support of these contentions as the author approaches his subject with a practical knowledge of the monuments and with a complete mastery of the extant literature of the subject. Although the attitude of the author is a mental one as to the use of Greek refinements in modern copies of Greek architecture, the facts established are entitled to thoughtful consideration by the architectural profession. In fact, so thoroughly satisfied have certain men become as to the value of architectural refinements in design and plan, that more than one important building has already been erected and others projected wherein these refinements have been introduced. The results will no doubt be studied with much interest.

We commend to every member of the profession careful reading of Professor Goodyear's book. It will take the reader into a "terra incognita," a hitherto unexplored branch of his profession, and teach him in many instances to use the pencil, guided by his artistic perceptions, where heretofore he has slavishly been bound to the T Square.

The work contains seven chapters and 120 illustrations of remarkably fine quality in picturesque effect.

The author first discusses the modern discoveries, their philosophy and the deficiencies in early modern knowledge of Greek temple architecture. He then takes up in turn the erroneous explanations of Greek horizontal curvatures, the Greek entasis, the gaps in the record due to the destruction of the monuments and also gives an account of the temples wherein these refinements have not been introduced.

In Chapter V Professor Goodyear discusses with much clearness the various theories advanced as to Greek horizontal curvatures, and the origin of the Greek refinements as indicated by the variety of their measurements and use. The remaining chapters treat of the asymmetric dimensions of Greek temples and their optical effect and significance. The facts in these particulars which are presented in Chapter VI and established by authentic measurements in recent surveys of the Sicilian and South Italian temples are of really astonishing importance and significance.

TO LIMIT HEIGHT OF MILWAUKEE'S BUILDINGS

It is stated in the local papers that the Building Code Commission of the City of Milwaukee contemplates the introduction of an ordinance restricting the height of buildings to 225 feet, or approximately eighteen stories. Arguments for and against this restriction have been advanced and are being debated with the usual vigor.

THE DUTY ON WORKS OF ART

The American Art News, in a recent issue, claims that "from an interested and authoritative source" it is informed that with the coming revision of the tariff the duty on art is "almost certain to be restored." Such action on the part of Congress is almost inconceivable, although we have had in the past many examples of the apathetic attitude of those high in office towards matters pertaining to the Fine Arts. The very beneficial results to art in this country that have accrued since the exemption of art objects from an import duty are so great and so very apparent that it does not seem possible that any action looking towards the re-establishment of a duty on art could, in view of what we feel sure would be a widespread protest, be enacted and receive approval of the President.

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 SPECIALTIES

Illustration and description of push buttons, switches, plugs, plates, receptacles and numerous other electrical specialties are to be found in a pamphlet issued by Machen & Mayer Electrical Manufacturing Co., Philadelphia, Pa.

The insistence of specification requirements and rigid inspection of the modern building has resulted in the production of high-grade utilities that go to form the perfect structure.

The makers of this line of electrical specialties state that their line possesses in a high degree the qualities demanded and invite an examination of their line.

DRAWING INKS

Wm. Higgins & Company, makers of drawing inks, have issued a pamphlet describing the various waterproof inks in black and colors, of which they are the manufacturers.

These inks are warranted waterproof as drawing inks, and together with a line of photo mounters, engrossing inks, mucilage and other adhesives have become well known in draughting rooms. Pamphlets may be had on request.

CREOSOTE STAINS

The merits of various creosote stains not only as wood preservatives but as material to be used in the decorative treatment of the exteriors of buildings, are described and illustrated in a pamphlet recently issued by Samuel Cabot, Boston, Mass. The pamphlet contains a great many testimonials from users, from which it would appear that over a period of more than twenty years these stains have been employed with satisfaction. The pamphlet may be had upon request and will repay careful reading.

OFFICE FURNITURE

The Derby Desk Company, Boston, Mass., in a series of pamphlets entitled "Derby Desk Doctrine," explains very fully the manufacture of their line of office furniture. The very large number of styles shown not only in desks but of all the various utilities that comprise the furniture equipment of the well-appointed office, are illustrated in these pamphlets and the method of their construction shown in a series of drawings. Furniture constructed in this manner may be said to be *built*, as in its assembling, piece by piece, it apparently re-

ceives the same care in construction and the same judicious selection of the proper material as does the well-designed building.

This company states that the originality of the designs used, the careful selection of the material and the skilled workmanship employed in assembling enables it to supply a line of office furniture that will meet the most exacting conditions.

LIGHTING FIXTURES

The reader of a series of pamphlets recently issued by the Tiffany Studios, 347 Madison avenue, New York, will be impressed with the artistic effort that is being made in this country to produce the very highest type of furnishings and equipment for the modern building.

The Tiffany Studios solicit an opportunity to consult those interested in artistic and distinctive lighting effects, whether for a whole house or a single room. Selection may be made from a large series of patterns already executed or original sketches will be submitted that will harmonize with architects' plans or the decorative scheme already outlined for interiors.

These fixtures are designed for the various types of lighting effects either direct or indirect, the hanging dome, or the wall bracket. The illustrations shown in the pamphlet indicate a very high type of artistic efficiency in design and will be interesting to architects.

ROOFS

The T-New Construction Company, 518 West 29th street, New York, has issued a pamphlet containing description and illustration of this firm's patented brick and tile roofs. These roofs, it is claimed, are absolutely proof against fire and water, will stand as long as the walls of the building they cover and make a complete pavement which may be used for either pleasure or business purposes. The makers state that they are especially adapted for use on tenement and apartment houses.

WATERPROOFING AND MASONRY

The Integral Waterproofing Company, of 50 Church street, New York City, has issued a pamphlet containing a considerable amount of data concerning modern processes of waterproofing cement with particular reference to the "Integral" method as applied by this company. This method of waterproofing, it is stated, is accomplished by adding to

THE AMERICAN ARCHITECT

the cement a compound that is water repellent and has the property of breaking up the continuity of the capillaries ordinarily existing in the mass of concrete. By this process, it is stated, the water is prevented from seeping through the wall. The advantages claimed are permanence, cheapness and the fact that no matter how much of the structure may be chipped away, the remaining portion is as equally waterproof as the entire structure.

The pamphlet referred to may be obtained by architects on application.

ARCHITECTURAL FINISHES

The Chicago Varnish Company, 2100 Elston avenue, Chicago, and Hudson Terminal Building, New York, describe in a recently issued pamphlet the various architectural finishes of which they are the manufacturers.

The modern tendency to "flat" finished surfaces has stimulated the makers of architectural finishes to the production of a series of paints and varnishes that will best secure a surface of this nature. In this pamphlet will be found descriptive matter concerning a great many paints and varnishes prepared to afford the architect an opportunity to accomplish decorative results in a satisfactory manner.

REVOLVING DOORS

To a considerable extent the revolving door has to-day taken the place, in large buildings, of successive swinging doors and presents many features of convenience and utility. This fact has had the effect of stimulating the inventive genius of manufacturers to the production of a type of door that will comply not only with building regulations, but will serve every requirement of efficiency. Various types of these doors are shown in a recently issued circular by the American Revolving Door Company, 2512 Monroe street, Chicago, Ill.

It would appear that these doors offer a number of adjustments to meet conditions of traffic and to afford the widest possible space through which the furniture necessary in a building may be passed. Many features which the makers claim are original with them have been introduced into this make of door and are shown in the circular referred to.

FIRE ESCAPES

A series of pamphlets recently issued by the Hanke Iron and Wire Works, 2550 Fillmore street, Chicago, Ill., illustrate and describe designs by this company for fire escapes, both for interiors and exteriors of buildings.

A type recently introduced by this company is a counterbalanced fire escape. The feature of this fire escape is claimed to be an important method of counterbalancing combined with rigidity of con-

struction that maintains the stringers in parallel relation and prevents the sliding and distortion of the unweighted stringer.

An interesting type of fire escape specially designed for use on school buildings is shown. This is a somewhat unusual design and would seem to prevent any possibility of crowding when in cases of emergency these fire escapes are used for the purpose for which they are primarily erected.

MACHINERY FOR ELECTRICAL GENERATION

Catalogue No. 205 of the Sturtevant Engineering Series, issued by the Sturtevant Manufacturing Company, Hyde Park, Boston, Mass., illustrates a number of types of gasoline electric generating sets specially designed for private lighting and power purposes. They are intended particularly to meet the needs of dwellers in communities who are outside of the general electric service zones. This applies to many farms, isolated country estates and private houses.

The makers claim that these generators are easy and inexpensive to operate, that they do not require the services of an experienced engineer and that they will give as reliable and as satisfactory service under the conditions for which they were designed as a well-managed central station.

The text and the illustrations furnished together with specifications, afford architects an opportunity to become thoroughly informed as to isolated electric lighting.

ARTISTIC HARDWARE

A series of pamphlets recently issued by the Penn Hardware Company, Reading, Pa., illustrates some new patterns with reference to their suitability for installation in interiors of special design. The various sets comprise, in addition to the usual mortise locks, the usual accessories of sash lifts, push buttons and draw handles, all designed to harmonize.

Pamphlets may be had on application.

PAINT FOR THE PRESERVATION OF METAL

E. N. Biegler, Inc., Chamber of Commerce Building, Chicago, is the manufacturer of a graphite carbon paint, described in detail in a recently issued pamphlet to be had on application. This structural steel and metal preservation paint, it is claimed, is of the highest quality and when properly applied prevents corrosion and protects the metal from atmospheric and electrical influences.

The pamphlet contains specifications for the application of the paint, a special report of the result of test applications by the City of Chicago and other information not only as to waterproofing and insulation, but with reference to special coatings for cement and brick structures.

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The Original and Standard Shingle-stains. Every gallon guaranteed. Made of refined creosote, "the best wood preservative known," and the strongest and finest pigments, ground in pure linseed oil.

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Give soft, transparent coloring effects on cement, like the shingle-stains on wood and are thoroughly and permanently waterproof. Cost less than paints or coatings, go farther and are more quickly applied. Cannot crack or peel.

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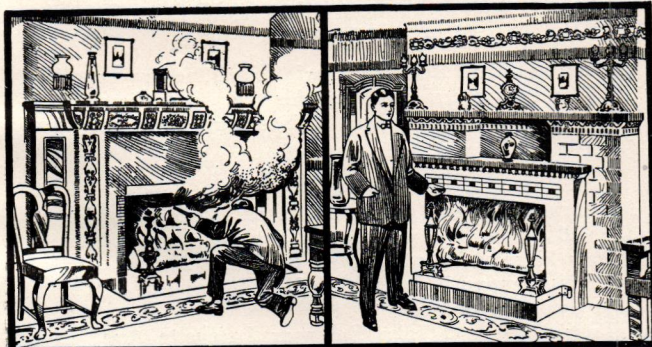
Friction is eliminated by the steel bearings, and the door swings smoothly and softly without creaking or binding. These butts have

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which will not work out of the joint.
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IT prevents mistakes in constructing the MOST VITAL part of the Fireplace.

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For more reasons and descriptive drawings
SEE SWEETS' INDEX Pages 1702-3, and A. B. C. CATALOG.
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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.—Robert P. McDavid has announced that an apartment house to cost \$180,000 will be erected at corner of Highland Ave. and Iroquois St.

MONTGOMERY.—A movement is under way for erection and dedication in the near future of an adequate fireproof structure on the capitol grounds for the exclusive use of the Department of Archives and History. Plans call for an investment of about \$100,000.

ARIZONA

MIAMI.—Mayor John H. Fitzpatrick has completed arrangements to build a 2-story reinforced concrete building on his site on Keystone Ave. now occupied by the Miami News.

ARKANSAS

FORT SMITH.—The congregation of the Lutheran Church is planning to raze the German Lutheran School on N. 12th St. and the Lutheran Hall, and to erect handsome brick school building on site.

CALIFORNIA

LOS ANGELES.—Board of Public Works has been given authority to proceed with the construction of a municipal building on site in Hollywood. Sum of \$15,000 has been appropriated to begin the building.

LOS ANGELES.—Architect L. Beverley Keim, Jr., Title Ins. Bldg., has prepared plans for a 3-story apartment house to be erected for W. Deciez. Figures are being taken; cost \$27,000.

Plans have been prepared by Architect M. D. L. Scott, Douglas Bldg., for a 3-story apartment to be erected for Dr. H. C. Haughawout.

SACRAMENTO.—George W. Peltier has secured an option on site at Fourth and J Sts., now occupied by the Farmers' and Mechanics' Savings Bank Bldg. Mr. Peltier and his associates plan to erect a 7 or 8-story building.

SAN DIEGO.—Architect Robert H. Orr has prepared plans for new church edifice to be erected on Date St., between 3rd and 4th Sts., for the First Presbyterian Church; estimated cost \$150,000.

SAN FRANCISCO.—Architect John H. Powers, 460 Montgomery St., has prepared plans for a 3-story apartment house to be erected for Mrs. Hayes F. Igoo; cost \$18,000.

SAN FRANCISCO.—Bert Schlesinger has had plans prepared by Architect Alfred Henry Jacobs, 20 Montgomery St., for a brick and steel apartment building to be erected at the southeast corner of Clay and Powell Sts.

Architect Alfred Henry Jacobs, 20 Montgomery St., has completed plans and working drawings for a hotel for the Western Hotel Company, to be erected on the north line of Ellis St., west of Powell St. As designed there will be 200 rooms in the hotel, which is to be 7 stories high.

CONNECTICUT

ANSONIA.—Architect Leonard Asheim is completing plans for a building to be erected by Nicholas Seymour. It will be 2 stories high. The plans will be ready for figures shortly.

BRIDGEPORT.—Plans are being prepared by Architect A. S. Meloy, P. O. Arcade, for changes to a 2-family house on the Huntington Road for Meyer Bower.

Architect A. S. Meloy, P. O. Arcade, is completing the

plans for another brick building on East Main St. for Nathan Engleman.

Plans drawn by Architect A. Murray Jenks, 42 South St., Mount Vernon, N. Y., are being figured for six houses to be built on Park and North Aves. by Messrs. Fallon & Greenstein.

Architect Joseph W. Northrup, Court Exchange Bldg., is completing the plans for the new business block to be built on Main St. by the Hawley Hardware Co. and the Alling Rubber Co. and estimates will be made shortly.

GEORGIA

MACON.—A report recommending the creation of a fund of \$2,000,000 for the erection of a new plant for Mercer University has been unanimously adopted by Georgia Baptist Convention.

IDAHO

BOISE.—Architects Tourtellotte & Hummel have completed plans for 5-story hotel to be erected for L. P. Kielsen, 10th and Grove Sts. Work will be started in spring.

ILLINOIS

CHICAGO.—Jacob L. Kesner has practically acquired the remaining 53 feet of frontage in the half block to Calhoun Place, giving him a frontage of 183 feet on 5th Ave. and 81 feet on West Madison St. It is reported that Mr. Kesner plans in the near future to erect a 16-story office building to cost about \$1,000,000 on this site.

PEORIA.—The Illinois Traction System has had plans drawn for a depot and office building to be erected on the site of the old National Hotel. The proposed structure will cost \$200,000. The plans call for an 8-story building.

IOWA

COUNCIL BLUFFS.—Bids will be received by the Board of Directors of the Independent School District of Council Bluffs, at the office of the architect, until 5 o'clock p. m., Dec. 9, 1912, for erection and completion of an addition to the high school building, located on Fifth Ave., between 3d and Bluff Sts., according to the plans which may be seen at the office of F. E. Cox, architect, 45 Baldwin Blk.

KENTUCKY

LOUISVILLE.—St. Patrick's congregation has purchased the fine site which forms the southeast corner of 16th and Market Sts. for the erection of a new school. The Very Rev. James P. Cronin is pastor.

PINEVILLE.—The Continental Hotel Company has been organized to erect a new \$50,000 hotel on Virginia Ave.

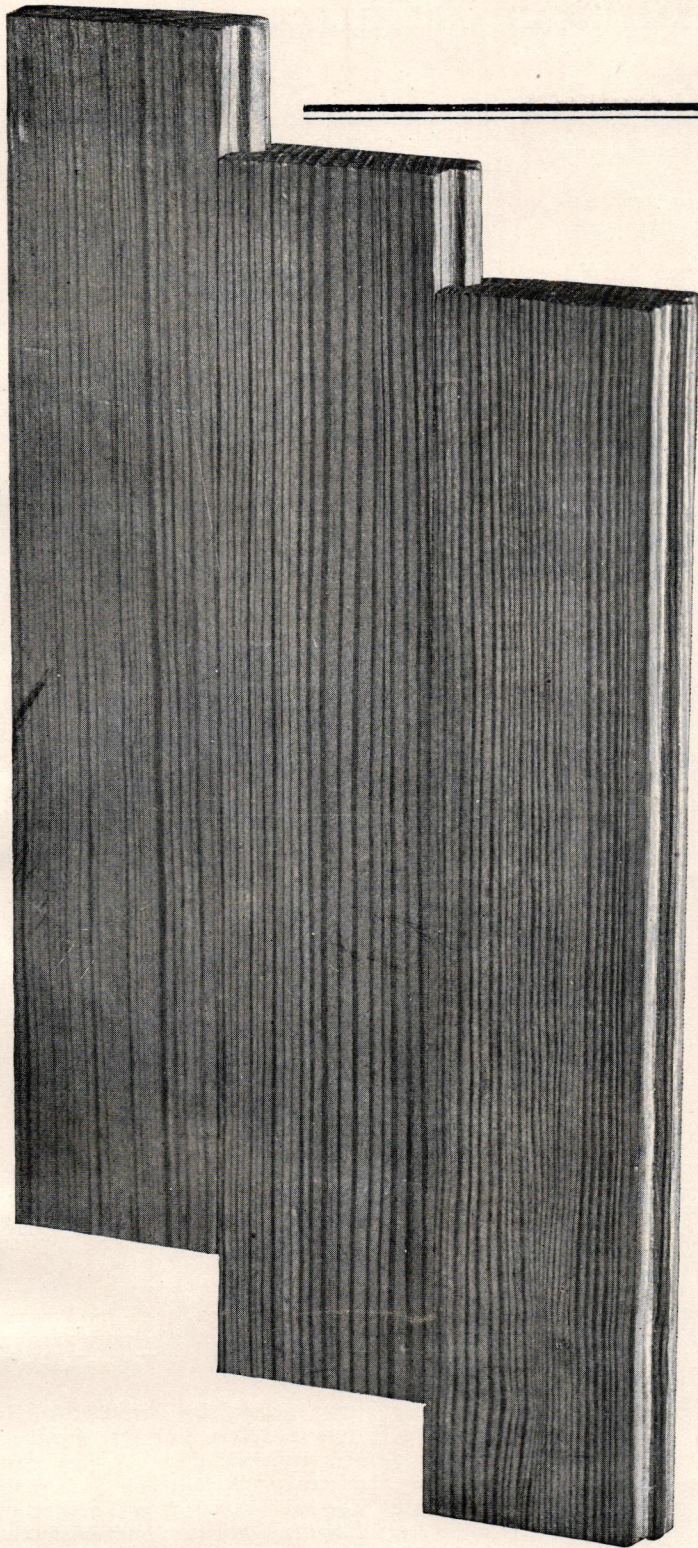
MAINE

BELFAST.—The Belfast School Committee are considering plans of several architects for the proposed new high school building in this city. Estimates range from \$50,000 to \$80,000.

MARYLAND

BALTIMORE.—Eli Oppenheim has purchased a portion of the old Cloverdale property on the Lake front, between Eutaw Place and Linden Ave. Upon this site Mr. Oppenheim is planning the erection of a handsome residence to cost \$30,000 additional.

Four houses on John St., near Lafayette Ave., have



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been acquired by the directors of the Hospital for the Women of Maryland, and they will shortly be razed to provide room for erection of a large additional ward.

BALTIMORE.—The plans for the Maryland & Pennsylvania Railroad Company's new station to be built at North Ave. and Oak St., have been practically completed by Architects Wyatt & Nolting, Baltimore. It will adjoin the present station, being built on the south and east.

BALTIMORE.—Plans for the new Maryland and Pennsylvania Railroad Station, at North Ave. and Oak St., have been practically completed by Architects Wyatt & Nolting, Keyser Bldg.

BALTIMORE.—A residence to cost about \$60,000 will shortly be erected for J. A. Phillips on the east side of Charles St., near Merryman's Lane. Mottu & White, 322 N. Charles St., are the architects.

The Hebrew Hospital and Asylum have made application to Building Inspector Stubbs for permission to erect a 1-story brick addition at the corner of Monument St. and Ashland Ave. The plans, which provide for an operating room and ward, have been drawn by Architects Parker, Thomas & Rice, Union Trust Bldg.

MASSACHUSETTS

BOSTON.—A 6-apartment and two 3-apartment houses are to be erected on Lucerne St., in the Franklin Field section of Dorchester, by David Cohen, on a tract containing 15,000 sq. ft. of land.

A 3-story 6-apartment and two 3-story 3-apartment houses are to be erected on Hansboro St., Dorchester, by David Cohen, at an estimated cost of \$20,000.

On Frisbie Pl., Cambridge, a 3-story brick and stone chemical laboratory building, to cost about \$40,000, is to be erected for Harvard College.

At the corner of Thorndike and Thurston Sts., Cambridge, a 3-story 12-apartment brick and stone block, to cost about \$65,000, is to be erected for S. Cashman.

MICHIGAN

KALAMAZOO.—The Kalamazoo State Hospital Board is considering erection of new \$75,000 home for the male nurses.

MINNESOTA

COVE.—Architect W. J. Sullivan, Palladio Bldg., is preparing plans for a 4-room schoolhouse at Cove, to cost \$10,000. The plans will be out for figures in about two weeks. The same architect reports that plans have been prepared for a new building to be built at Virginia, for the Troy Laundry Company. The cost will be \$30,000.

DULUTH.—Tentative plans for the proposed Robert E. Denfeld High School in West Duluth have been made by Building Committee of the Board of Education. The high school will be erected next to the present Ely School, Central Ave. and 6th St. The high school will be 2 stories high, with a basement half above the ground level. It is estimated that the structure will cost in the neighborhood of \$100,000.

Vasa Order, No. 170, Swedish United Sons, is negotiating for a loan of \$50,000 so that construction work may be started in the spring on the proposed \$100,000 Swedish fraternity house at 21st Ave. west and 1st St. C. E. Nyström, architect, has prepared plans for a 3-story building.

DULUTH.—A 4-story apartment house of 40 apartments is planned by Henry E. Jones, New York, to be erected at the foot of 5th Ave. and E. 2d St.; cost \$45,000. Architects are Kelly & Williams.

ST. PAUL.—A residence to cost \$22,500 will be erected by E. T. Buxton, 829 Lincoln, on Summit between Portland and Arundel, from plans by Architects Marshall & Fox, of Chicago.

A new school building to cost \$150,000 is planned by the Lutheran Educational Society for Concordia College. A. Hitzeman, 69 Lyton Pl., is secretary of the society.

MISSOURI

ST. LOUIS.—Architect Thomas P. Saum has prepared plans for erection of six bungalows in Justin Place at Berthold and McCausland Aves., to cost about \$35,000, for Henry W. Hamilton.

NEBRASKA

OMAHA.—Announcement has been made recently that the Iten Biscuit Co. has purchased an additional 99 ft. on Capitol Ave. adjoining its Snow White bakery. On this property an addition will be erected, 5 stories in height.

OMAHA.—Mrs. E. J. Cornish will have erected a modern ice plant at Carter Lake Park; cost complete \$50,000.

NEW JERSEY

NEWARK.—Plans have been filed for the proposed playhouse to be known as the Corse Payton Theater, at the corner of Branford Place and Halsey St. The building will be put up by Levi Weingarten, of the firm of Weingarten Brothers. The estimated cost of the theater is to be \$175,000. William E. Lehman is architect for the proposed structure.

NEWARK.—Abram P. Morris, president of the Newark Second-Hand Machinery Co., has purchased site at 107-113 Chestnut St. and will erect 4-story brick and stone factory building.

PERTH AMBOY.—The Hebrew Institute is considering erection of \$35,000 or \$40,000 building at Madison Ave. and Jefferson St. Architect Edward Smith has drawn up the plans and specifications for the building, which are in the hands of Director Nathan Jacobson. Barnett Goldman is chairman of the building committee, which will shortly advertise for bids.

NEW YORK

ALBION.—Sealed proposals for new barn, wagon shed and addition to horse barn, construction at the Western House of Refuge for Women, Albion, will be received by William B. Dye, president Board of Managers, Western House of Refuge, Albion, N. Y., until 10 o'clock a. m., December 10, 1912.

BROOKLYN.—A site on the west side of Ocean Ave., north of Beverley Rd., Flatbush, has been sold to the Kraslow Construction Co., who will erect two 4-story modern apartments upon it.

Plans are in preparation by Architect Emery Roth, 20 E. 42d St., for the 12-story and office building to be erected on the site of the old Academy of Music, at 176 to 182 Montague St., by the Brown Realities, which will erect the structure at a cost of approximately \$400,000.

BROOKLYN.—Architects Cohn Bros., 474 Rockaway Ave., have prepared plans for erection of 4-story apartment house on Dorchester Rd. and E. 16th St., Flatbush, for the Englehardt Real Estate Co.

Plans are being prepared by Architect William G. I. Roeder, 360 E. 151st St., New York City, for the construction of a 2-story vaudeville theater in the west side of Boston Ave. between 167th and 168th Sts., owned by the Barry estate. The building, which will cost about \$95,000, is to be erected by the Weissager Amusement Co.

Sealed bids will be received by the Park Board, at the office of the Department of Parks, until 3 o'clock p. m. on Dec. 5, 1912, for the erection and completion of the superstructure of additions F and G of the Brooklyn Institute of Arts and Sciences, and for alterations to sections A and C of the existing buildings.

BROOKLYN.—Plans have been filed for the erection of a postoffice building at Flatbush and Snyder Aves. The plans were filed by Percival Smith of 46 Cedar St., as the owner. The plans call for a brick building to cost \$10,000.

A. J. Maier has purchased a site west of Hillside Ave. and has had plans drawn by Architect George J. Hardway,

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all from one page of NEW YORK HERALD, SUNDAY, OCTOBER 27, 1912.

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LARGE STORE AND LOFTS,
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Running Through to
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Between Broadway and
University Place.
Optional light on four sides.
Low insurance.
Sprinkler equipment.
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20 Story & Basement Building,
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STORES AND LOFTS, 100x100
12 Story Absolutely Fireproof Building.
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Nos. 337 to 347 West 27th St., between 8th and 9th Avenues. Distant four blocks from the Pennsylvania Depot and N. Y. Central freight depot. Convenient to 9th Av. "L" road, 8th and 9th Aves. and 33d and 34th Sts. crosstown surface cars. The mercantile building now in course of erection on this plot, 127.6x 98.9, will be 8 stories and basement in height, containing about 105,000 square feet white plaster finish; three large elevators, two freight and one passenger; four fireproof stairways, including the much talked of but little seen Fire Tower; an automatic sprinkler system, rated 100% by the Fire Insurance Exchange. (The value of a 100% Sprinkler equipment can be figured in dollars and cents as an insurance saver, but its virtue as a protector against business interruption and consequent irrecoverable losses cannot be computed in the same manner, more's the pity). Heavy carrying capacity of 200 lbs. per square foot. Dustless cement floors. Minimum insurance rate on building and contents. Toilet rooms (with ample toilets) on every court, not

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THE AMERICAN ARCHITECT

347 5th Ave., New York City, for the erection of a large Colonial residence.

F. A. Volmer has purchased site on Cedar Drive, near the entrance of the Estates of Great Neck and a site on Sycamore Drive, near the Great Neck Golf Club. It is the intention of the purchaser to erect a residence on each plot from plans drawn by Architect George J. Hardway, 347 5th Ave., New York City.

Sealed bids will be received by the Park Board, at the office of the Department of Parks, 5th Ave. and 64th St., Manhattan, until 3 o'clock p. m. on Dec. 5, 1912, for the erection of the superstructure of additions F and G, of the Brooklyn Institute of Arts and Sciences, Borough of Brooklyn, and for alterations to Sections A and C, of the existing buildings.

BUFFALO.—The plans for the remodeling of the E. Ferry St. Hospital and the construction of a cottage for the superintendent, Dr. Walter S. Goodale, which are being prepared by City Architect Beck, have been approved by the consulting staff; cost \$20,000.

GREAT NECK, L. I.—The Great Neck Board of Education has advertised for bids for the erection of the new high school building on the Middle Neck Road. The bids will be opened at 3 o'clock, Dec. 14. The plans for the new building have been prepared by William T. Towner, of 320 Fifth Ave., Manhattan; estimated cost \$60,000.

LOCKPORT.—The Building Committee of the Board of Supervisors will shortly select an architect to prepare plans for the new \$75,000 county almshouse.

Architect Chester R. Phelps, of Niagara Falls, will submit his plans and sketches, with an estimate on the improvements to be made to the courthouse. An appropriation of \$75,000 has been set aside for these improvements.

NEW YORK CITY.—Architect Maximilian Zipkes, 220 5th Ave., has filed plans for a 5-story brick apartment to be erected on Kelly St., corner of 163d St. for Simbar Realty Co. (Meyer Soloman, 931 Southern Blvd., president); cost \$75,000.

The property at 60 Cliff St. recently sold to Henry Leeburger, is to be improved with a 6-story commercial structure. The proposed building has been leased for a long period of years to the J. E. Linde Paper Company.

NEW YORK CITY.—Architect J. C. Schaeffler, 38 W. 32d St., has filed plans for a 4-story storage house to be erected on West End Ave. corner of 63d St. for R. McClenahan, 540 W. 39th St.; cost \$85,000.

Plans have been filed by Architect Andrew J. Thomas, Fordham Rd. and Webster Ave., for a 5-story apartment to be erected at 187th St. for St. Nicholas Avenue Construction Co., 562 W. 171st St.; cost \$50,000.

NEW YORK CITY.—Architect M. W. Del Gaudio, 401 Tremont Ave., has filed plans for two 5-story brick apartments to be erected on Cambreling Ave. for Russo & Barba Realty Co. (John Russo, 2383 Belmont Ave., Pres.); cost \$80,000.

Plans have been filed by Architect Henry Nordheim, 1087 Tremont Ave., for a 2-story apartment to be erected on Bronxdale Ave. for Bailey Construction Co. (Charles Bailey, 1950 Mulliver Ave., Pres.); cost \$8,000.

Architect A. Baylies, 33 Bible House, has filed plans for alterations to a 1-story warehouse on 55th St. for Jacob Hoffman Brewing Co., 211 East 55th St.; cost \$35,000.

ROCHESTER.—The Beech Nut Packing Co., of Canajoharie, has closed a deal for the purchase of 3 acres of land in Main St. E. at the corner of Palmer St. Arrangements have been made for immediate start on the construction plans, and it is proposed to have the Rochester plant ready for use by May 15 next.

Architect Edwin S. Gordon has prepared plans for a 4-room addition to Public School 36. Bids for same have been advertised by Secretary Sankey Mullan.

SYRACUSE.—Tentative plans are being sketched by Prof.

F. W. Revels for the proposed State College of Forestry building at Syracuse University; estimated cost \$250,000.

UTICA.—Architect James T. Jessum has completed plans for a residence at the corner of 1st St. and Sanger Ave., New Hartford, for A. J. Wainman.

OHIO

AKRON.—Erection of large business block on the Collins property on South Main St., has been planned by Mr. M. O'Neill.

CINCINNATI.—Erection of new \$100,000 Y. M. C. A. building for colored men is being planned. A. G. Bookwalter is general secretary of the organization.

Clarence Schaffner, of the Cincinnati Mfg. Co., has purchased site at Observatory Road and Menlo Ave., East Walnut Hills, and will erect \$25,000 residence.

CLEVELAND.—The Otis Steel Co., Ltd., has purchased 200 acres in the upper valley of the Cuyahoga River, upon which it plans to erect at once a mammoth steel plant. The company, according to George Bartol, president and treasurer, contemplates spending perhaps \$10,000,000 within the next few years.

DAYTON.—Bond issue of \$200,000 has been authorized for the construction of an addition to the Stivers Manual Training High School. Clerk Schmidt has been instructed to advertise for and receive bids for the completion of the building, at his office until 12 o'clock, noon, Jan. 23, 1913. Plans have been prepared by Architect Mountstephen, McIntire Bldg.

Plans have been inaugurated by the Egry Register Company, located on East Monument Ave., for the construction of a 4-story steel and concrete factory building, to be located west of the present structure. It is estimated that the new improvement will cost approximately \$80,000. Architect Pretzinger, Reibold Bldg., and Architect Muselman, have prepared the plans.

DAYTON.—The Allyn Company, Second National Bank Bldg., Cincinnati, are preparing plans for a theater building to be erected for Walter S. Kidder and John McGee; cost \$350,000.

MANSFIELD.—Architect Vernon Redding, 301 Bird Bldg., is preparing plans for a 1-story bank building to be erected at Main and 4th Sts., for Mansfield Savings Bank; cost \$75,000.

NILES.—J. LeRoy Decker, architect of this city and who has an office in the Federal Bldg. in Youngstown, has submitted plans for a building for an appropriate memorial to the late President William McKinley. The plans provide for a spacious memorial hall, a large auditorium, etc. Mr. Decker has estimated the cost at \$90,000.

NORWALK.—Architect Vernon Redding, 301 Bird Bldg., Mansfield, will receive bids until Dec. 17 for erection of courthouse for Huron County; cost \$100,000.

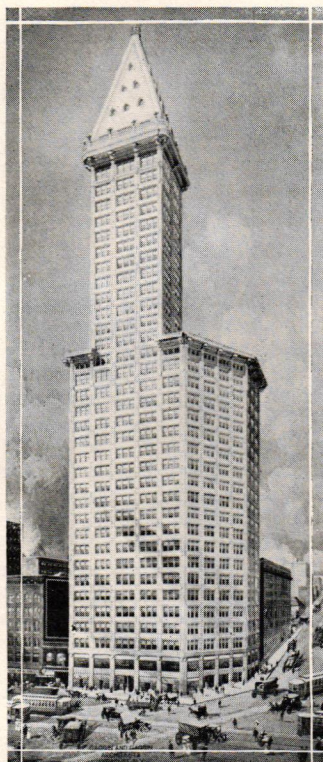
SPRINGFIELD.—Architect Robert C. Gotwald, Gotwald Bldg., is preparing plans for the erection of a proposed boys' cottage at the Masonic Home.

WEST CARROLLTON.—Bids will be received by the Board of Education of the West Carrollton Village School District at the office of the architect, and at the office of the clerk of said board, until 12 o'clock, noon, Dec. 16, 1912, for a new school building to be erected in said district, located on Cedar St. Plans and specifications are on file in the office of E. J. Mountstephen, architect, McIntire Bldg., Dayton, Ohio, and also at residence of Dr. E. B. Doan, president of the Board of Education, at West Carrollton, Ohio.

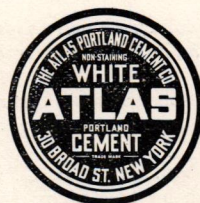
OREGON

BARTON.—Architect F. S. Allerton, 715 Wilcox Bldg., Portland, is preparing plans for a 3-story, \$40,000 hotel building to be erected for the Neal Institute. Call for sub-bids will shortly be made.

PORTLAND.—Architects Trowbridge & Livingstone, of



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Seattle, Wash.
GAGGIN & GAGGIN Architects The WHITNEY CO. Contractors



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Syracuse, N. Y.

THE AMERICAN ARCHITECT

New York City, have been commissioned to prepare plans for a 16-story structure to be built on corner of Stark St. between 7th and Park Sts.

Architect E. F. Lawrence, Chamber of Commerce Bldg., is preparing plans for a \$30,000 community house to be erected for Peninsula Park.

ST. JOHNS.—H. Hemlow, Vancouver, B. C., is preparing plans for a business block to be erected on Richmond St. and Columbia Blvd. The building will cost \$60,000.

PENNSYLVANIA

JOHNSTOWN.—Plans have been drawn and work will be begun shortly on the erection of a mine rescue and first-aid station by the Cambria Steel Company. The project will mean the erection of a brick structure, probably 2 stories in height.

Estimates have been invited by Architect Horace Trumbauer, Land Title Bldg., for a \$100,000 Y. M. C. A. building at Nos. 1722 to 1728 Christian St., for the colored residents of the southern section of the city. The plans provide for a 4-story brick and terra cotta front structure.

Architects Magaziner & Potter, 137 S. 5th St., have been commissioned to prepare plans for a ward building addition to the Jewish Hospital, York and Tabor Roads.

JOHNSTOWN.—Architect Paul A. Davis, 3d, of Philadelphia, has completed plans for erection of Y. M. C. A. building.

PHILADELPHIA.—The members of the Alumni Association of Keneseth Israel congregation on Broad St., who purchased the big brownstone mansion at 1715 N. Broad St., expect within a week or so to award a contract for the erection of a handsome building on the site. The proposed building will be used as an annex to the synagogue. The cost of the building and the lot will represent an outlay of \$125,000.

The D. H. Burnham Co., of Chicago, has been commissioned to prepare preliminary plans for either a 10 or 20-story office building, which the Mint Realty Co. contemplates erecting on the old mint site at Juniper and Chestnut Sts. The proposed building will cost approximately \$2,000,000.

Architects Ballinger & Perrot, 1211 Arch St., have completed plans for a church at the southeast corner of 6th St. and Cheltenham Ave., Oak Lane Park, for the Oak Lane Park M. E. congregation. Contractors have been asked to submit bids.

PHILADELPHIA.—The Tiferith Israel Jewish Congregation, of West Philadelphia, has bought a plot at 892 N. 40th St. A \$10,000 synagogue will be erected on the site.

TENNESSEE

JOHNSON CITY.—Bond issue of \$50,000 has been authorized for erection of new high school building. Plans for the new building have been made. The new structure will be erected on Science Hill, near the central part of the city.

KNOXVILLE.—The Sanford-Day Iron Works has purchased 33 acres of land west of the city, near the Empire Marble Co.'s plant, upon which it will erect a large and modern iron works; estimated cost \$75,000.

SULPHUR SPRINGS.—A movement is on foot at Murfreesboro and in Nashville to erect a \$50,000 hotel at Sulphur Springs, near Jefferson, in this county. It is understood that W. W. Dillon, of Nashville, is one of the leading promoters of the enterprise. The hotel will be a 3-story building and called the Hotel Jefferson.

UTAH

SALT LAKE CITY.—Preliminary plans for the new Woolgrowers' Bank Bldg. have been submitted to the building committee by Don Carlos Young, Jr., and Frank Moore,

the architects, and have been approved. The main plans will now be drawn up.

SALT LAKE CITY.—The Cannons are planning improvements to their property on the north side of S. Temple St. between First West and Second West Sts., which when completed will represent an expenditure of about \$300,000. According to the plans as outlined by H. J. Cannon, manager of the Cannon estate, work will begin early in the year.

VIRGINIA

NORFOLK.—Erection of a new armory for both the artillery and infantry of Norfolk on the site of the old Brambleton High School has been recommended by the military committee of the City Council. The committee approved an ordinance appropriating \$75,000 to carry out this decision.

WASHINGTON

SEATTLE.—The Co-operative Tailors of America, Lumber Exchange Bldg., are contemplating the erection of a factory to cost about \$20,000. Site has not been definitely decided upon. A. G. Moon is president of the company.

The Board of County Commissioners has instructed Architect A. Warren Gould, American Bank Bldg., Seattle, to prepare plans and specifications for the new courthouse to be erected on corner of 3rd Ave. and James St. Building will cost between \$950,000 and \$990,000.

Plans for the Carnegie Library to be erected on northwest corner of 4th Ave. W. and Garfield St., at a cost of \$50,000 have been approved by library board and working plans have been ordered at once, same to be ready for figures by Dec. 15. W. Marbury Somervell, White Bldg., and Harlan Thomas, Eiler Bldg., are the architects.

Actual work of erection of \$950,000 county and city building will be begun May 1. Proposed structure will be built at 3d and James. A. Warren Gould, American Bank Bldg., is the architect.

SPOKANE.—The Spokane School Board is considering plans for a new school building for the district across Hangman Creek, on the site at 7th Ave. and E St. Robert C. Sweatt, the school architect, has the designing of the new structure. The proposed building will cost approximately \$40,000.

TACOMA.—Architects Heath & Gove, of Tacoma, will have plans completed for the proposed high school building to be submitted to the School Board in December. Bids are to be asked without delay.

WISCONSIN

MILWAUKEE.—Architects Fernekes & Cramer, Pabst Bldg., have prepared plans for a residence on Marietta Ave. between Linnwood and Kenwood Aves. for H. J. Hoffman, to cost \$10,000.

SHEBOYGAN.—A new Congregational Church to cost \$12,000 will be erected at St. Clair and N. 15th.

CANADA

NEW WESTMINSTER.—Architects Gardiner & Mercer, M. S. A., city, are preparing plans for a 3-story, \$100,000 concrete building to be erected on 6th St. Figures will be taken shortly.

VANCOUVER, B. C.—Architect H. B. Watson, Holden Bldg., has completed plans for a 6-story warehouse to be built on Water St., near Abbott, for Mrs. Montgomery. Building will cost \$36,000.

VANCOUVER, B. C.—Architect E. W. Houghton, Collins Bldg., Seattle, is preparing plans for a 7-story \$500,000 theater and office building, to be erected on Pender and Bernard Sts. for A. Salisbury and D. V. Boyd.

H. S. Griffith, supervising architect, Dominion Trust Bldg., will receive bids for the erection of the proposed \$350,000 Y. M. C. A. to be erected on corner of Burrard and Georgia Sts. The building will be an 8-story structure.

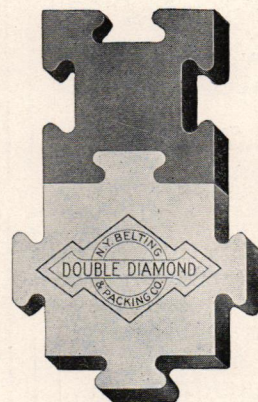
Alphabetical List of Advertisers

Ads. marked E. O. W. appear every other week.

Ads. marked O. A. M. appear once a month.

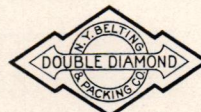
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Adler, The J., Gilding Co. (o.a.m.)		Lee Marble Works (o.a.m.)	18
American Blower Co.	23	Loomis-Manning Filter Co.	17
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American Sheet & Tin Plate Co. (o.a.m.)	29	M	
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B		Mullins Co., The W. H.	
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Carter White Lead Co.		Northwestern Terra Cotta Co.	
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Condron Co.		Ohio Blower Co.	19
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Cudell, F. E. (e.o.w.)	18	P	
Cutler Mail Chute Co.		Peaslee-Gaulbert Co.	18
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D		Pfau Manufacturing Co., The	34
Darby, Edw., & Sons Co., Inc. (e.o.w.)	19	Pierce, Butler & Pierce Mfg. Co. (e.o.w.)	32
Decorators Supply Co. (e.o.w.)	22	Pomeroy, S. H., Co., Inc. (o.a.m.)	18
Deming Co., The	20	Pratt & Lambert	27
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Detroit Show Case Co. (o.a.m.)	53		
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Dexter Bros. Co.	17	Reliance Ball Bearing Door Hanger Co. (o.a.m.)	23
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		Ruud Mfg. Co. (e.o.w.)	
E		S	
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		U	
H		U. S. Gypsum Co.	17
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I		W	
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Industrial Engineering Co.	26	Warner Co., Charles (o.a.m.)	16
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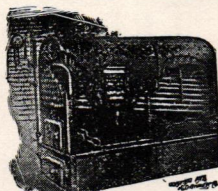


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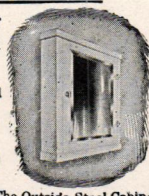
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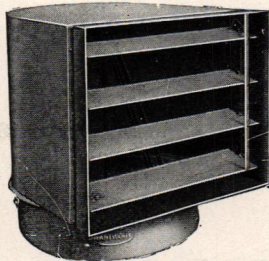
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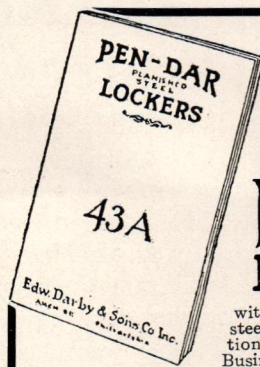
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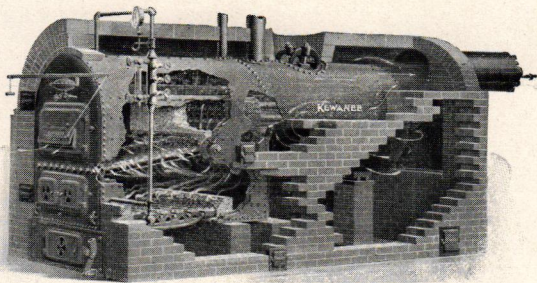
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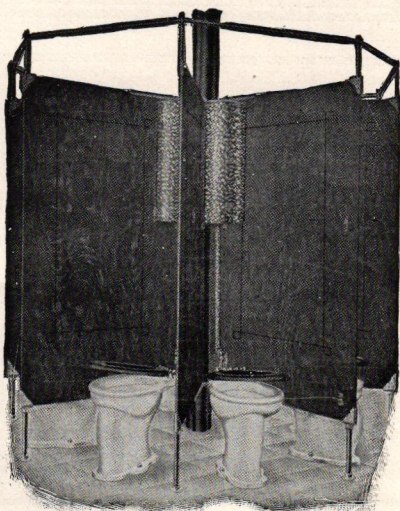
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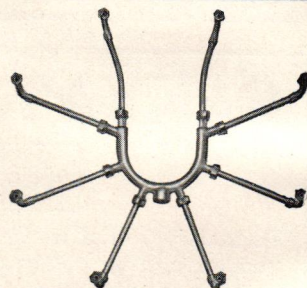
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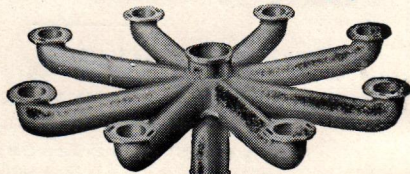
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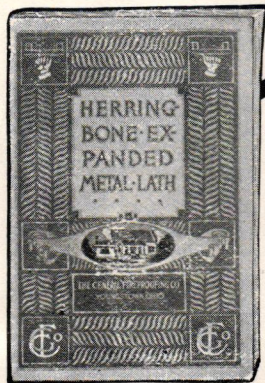
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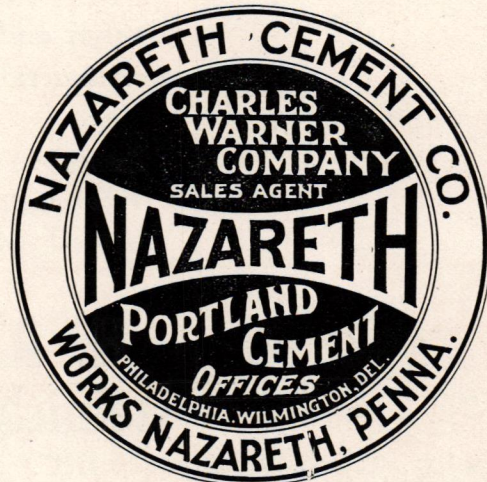
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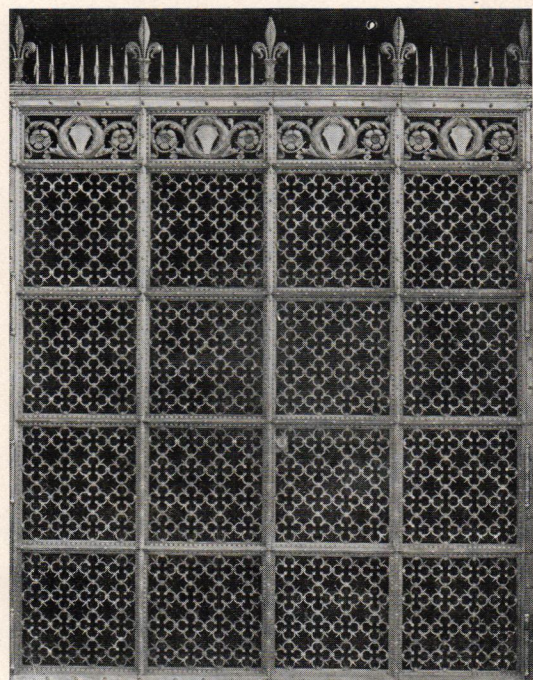
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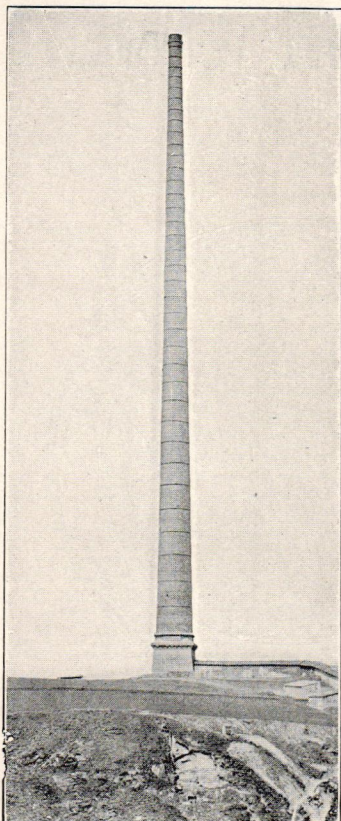
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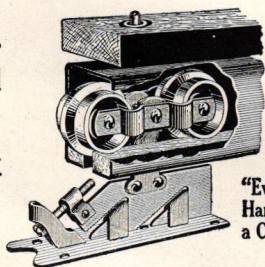
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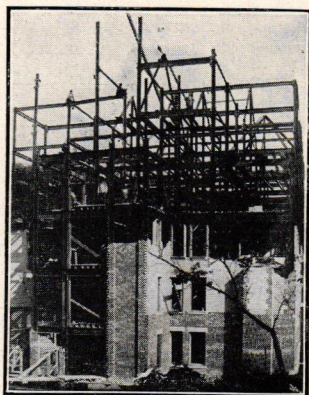
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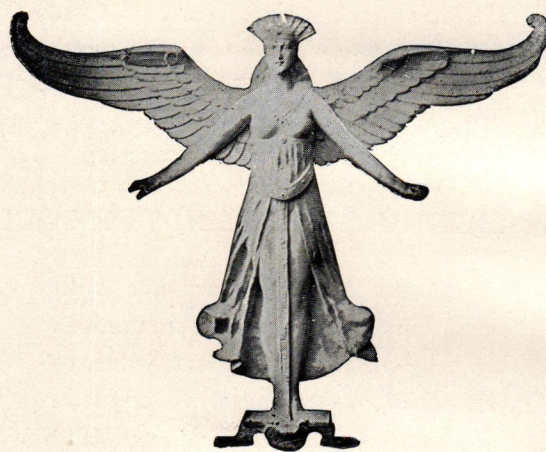
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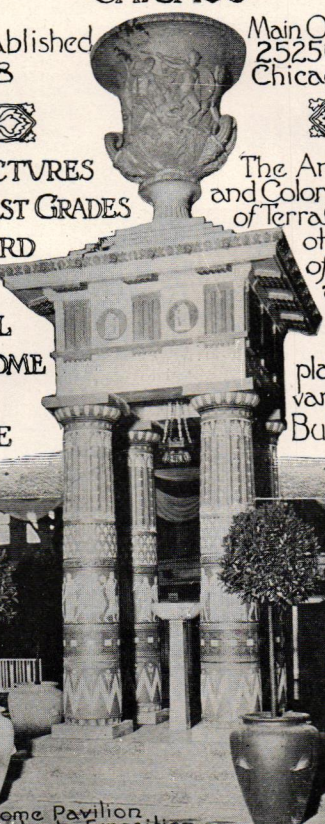
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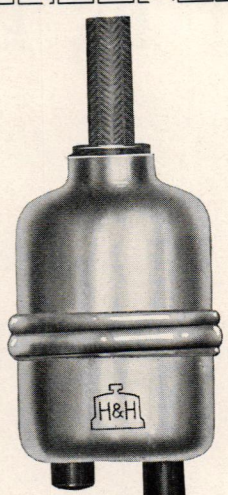
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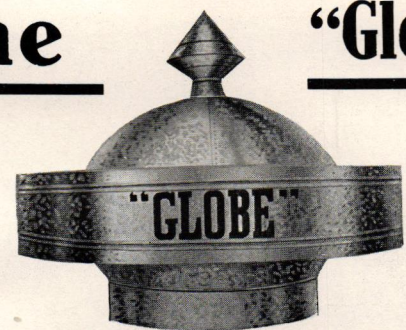
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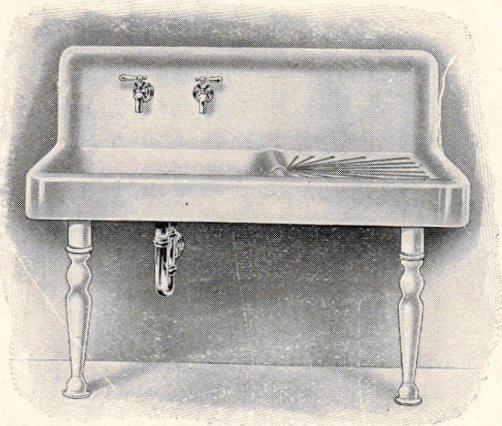


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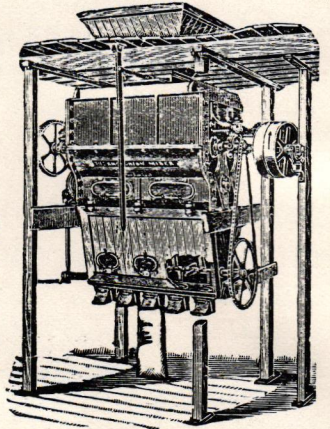
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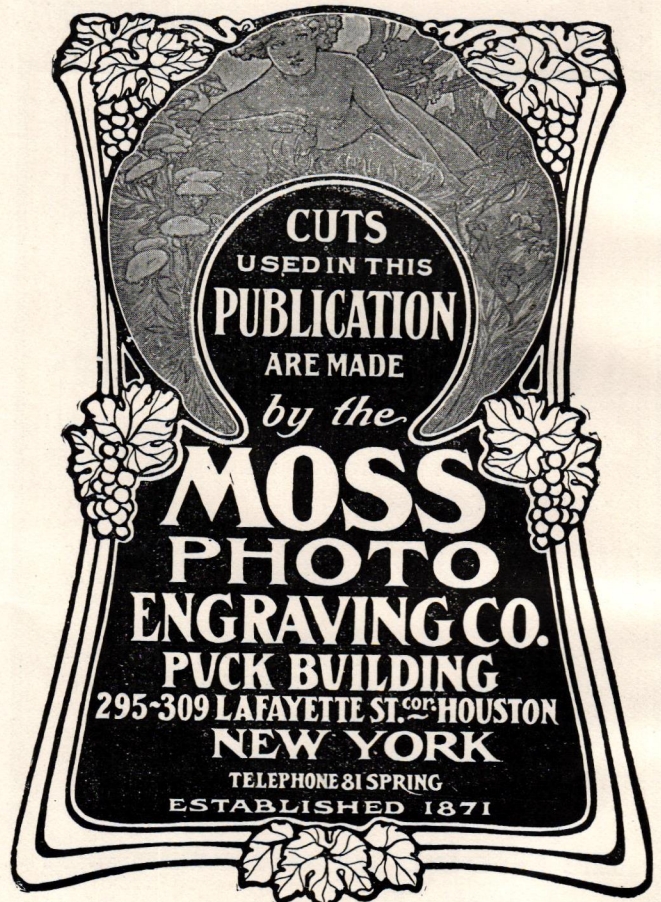
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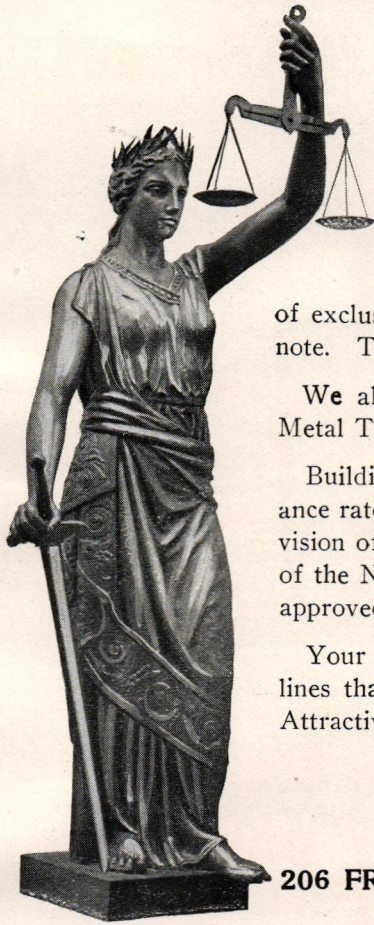
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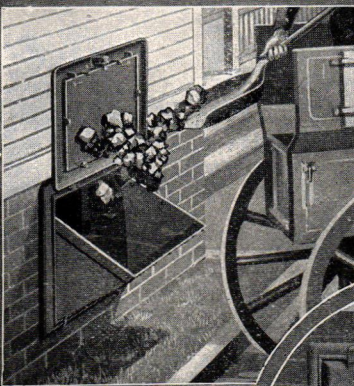
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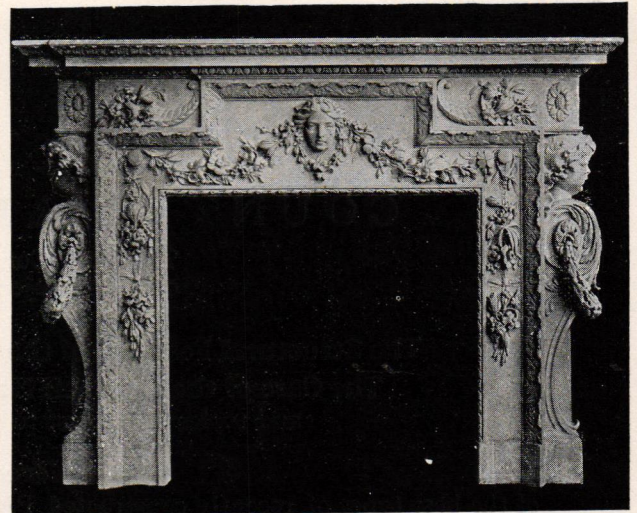
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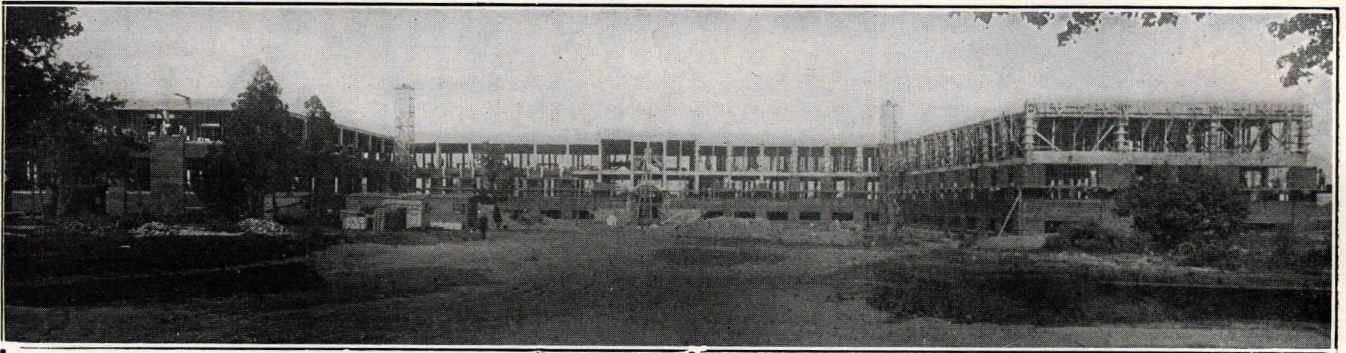
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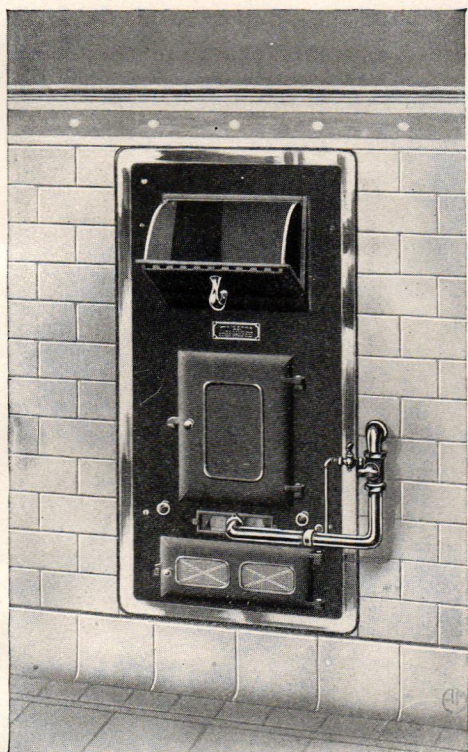
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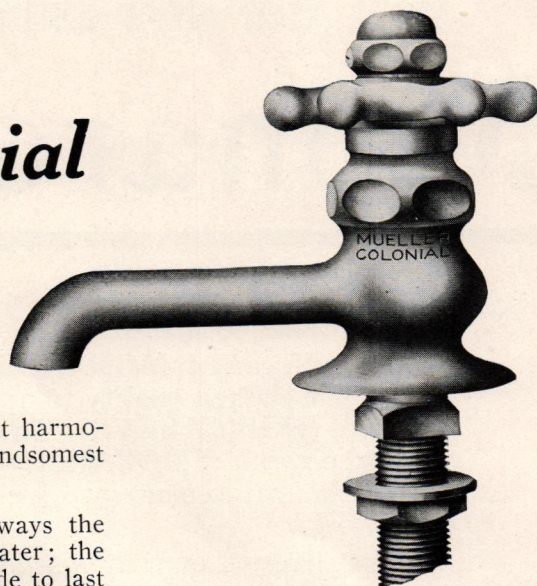
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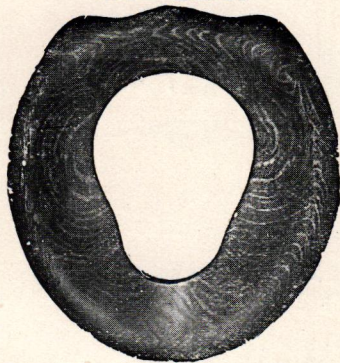
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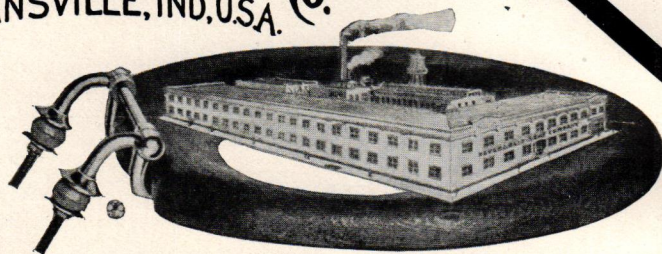
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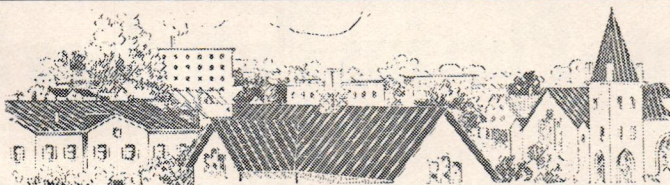
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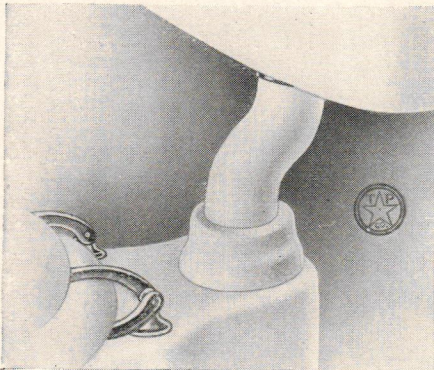


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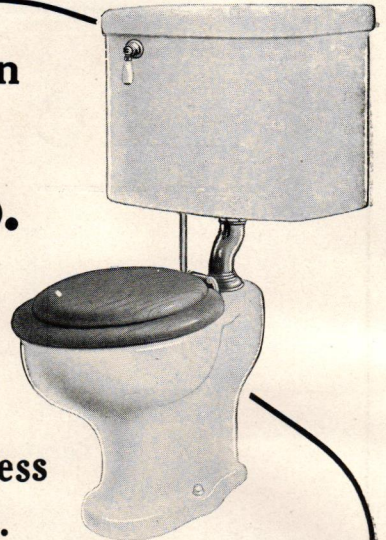
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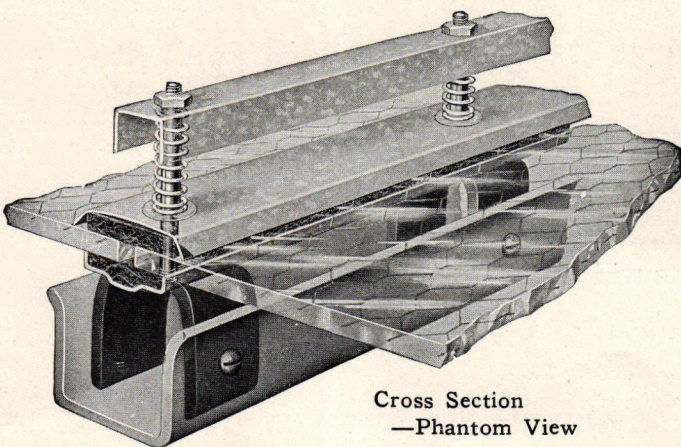
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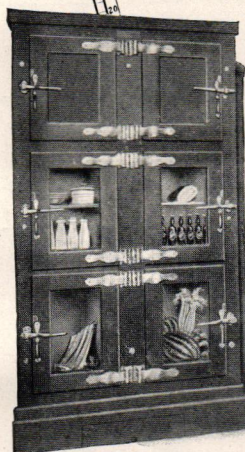
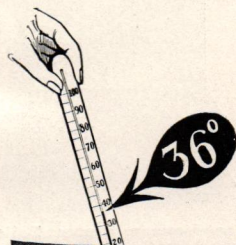
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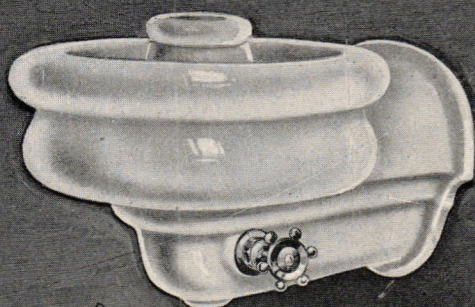
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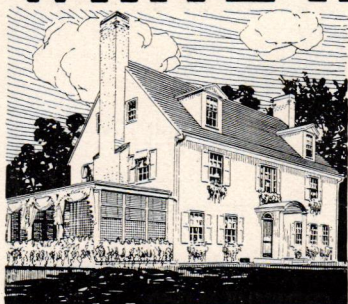


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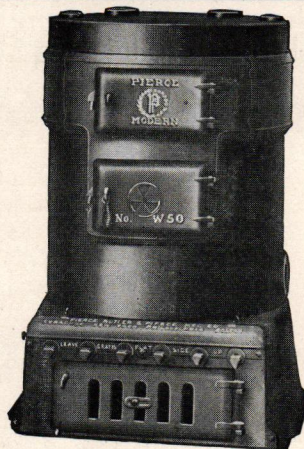
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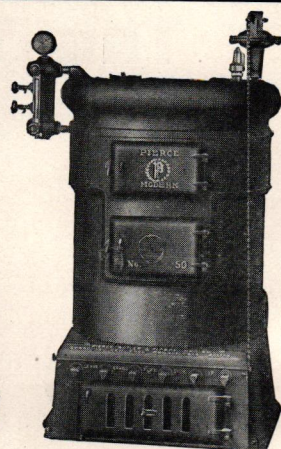
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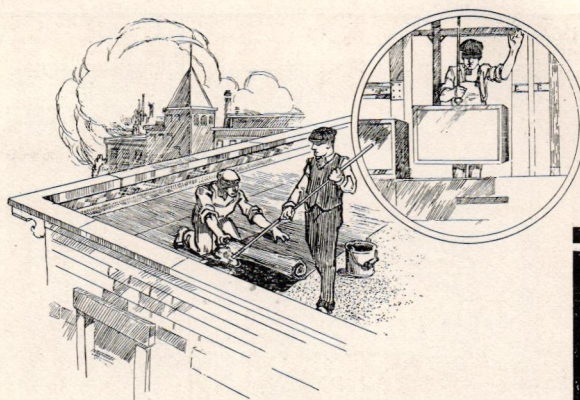
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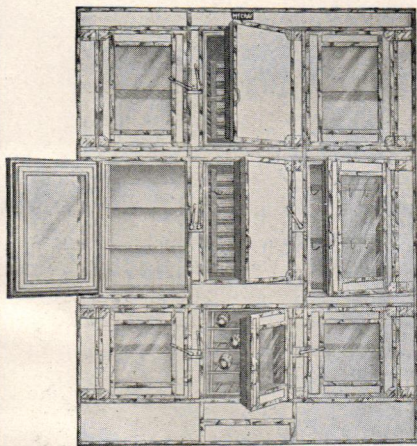
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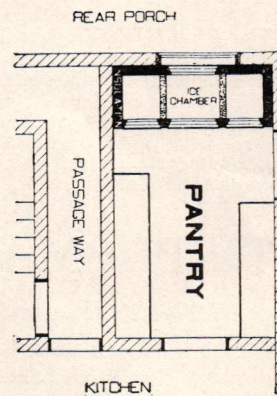
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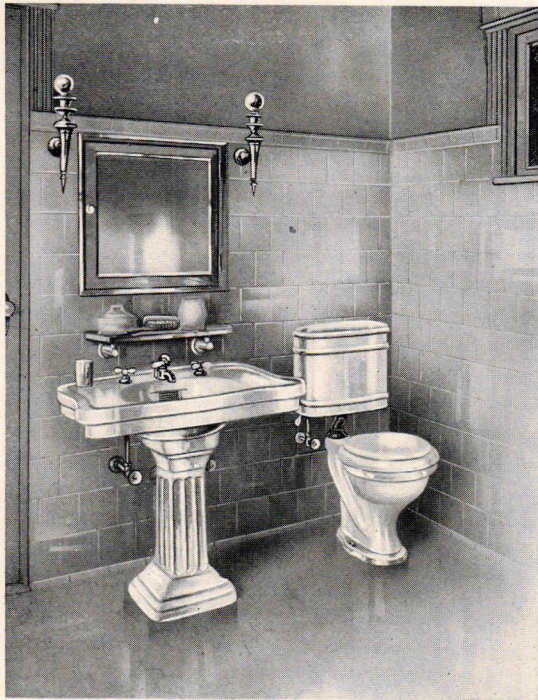
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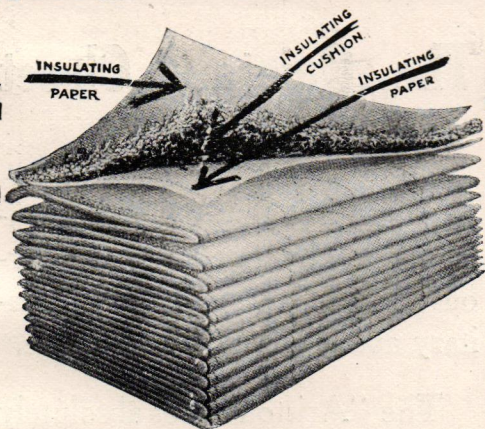
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The construction of Keystone Hair Insulator shown in the advertisement below, should be of interest to every architect and builder.

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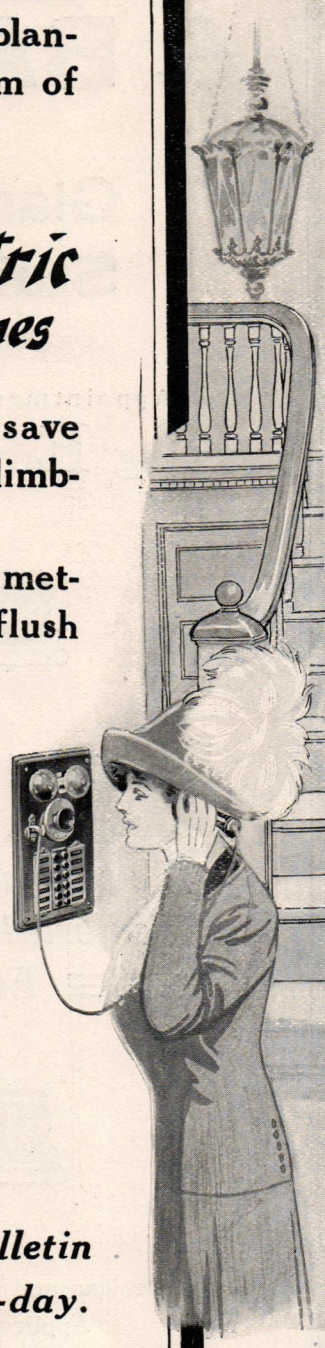
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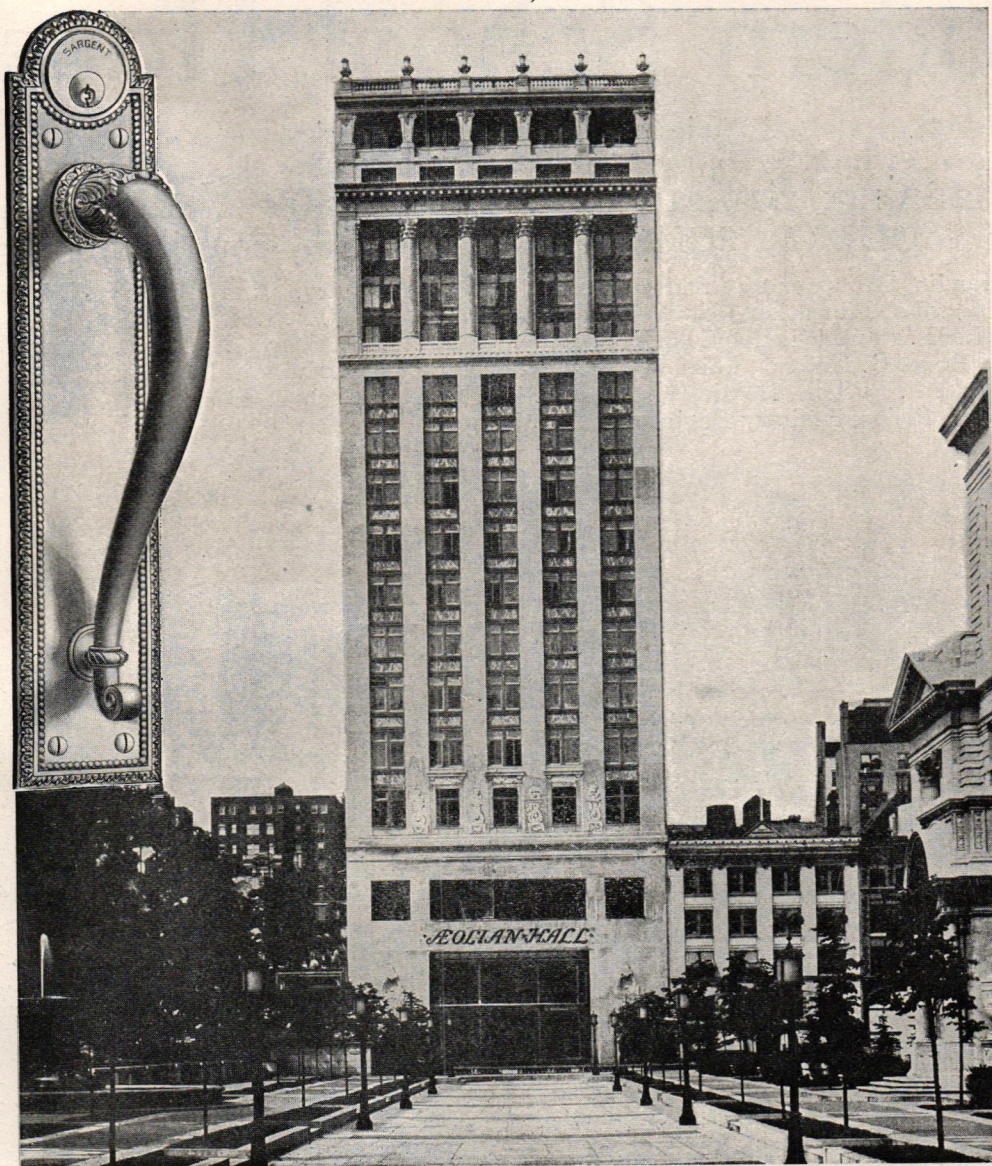
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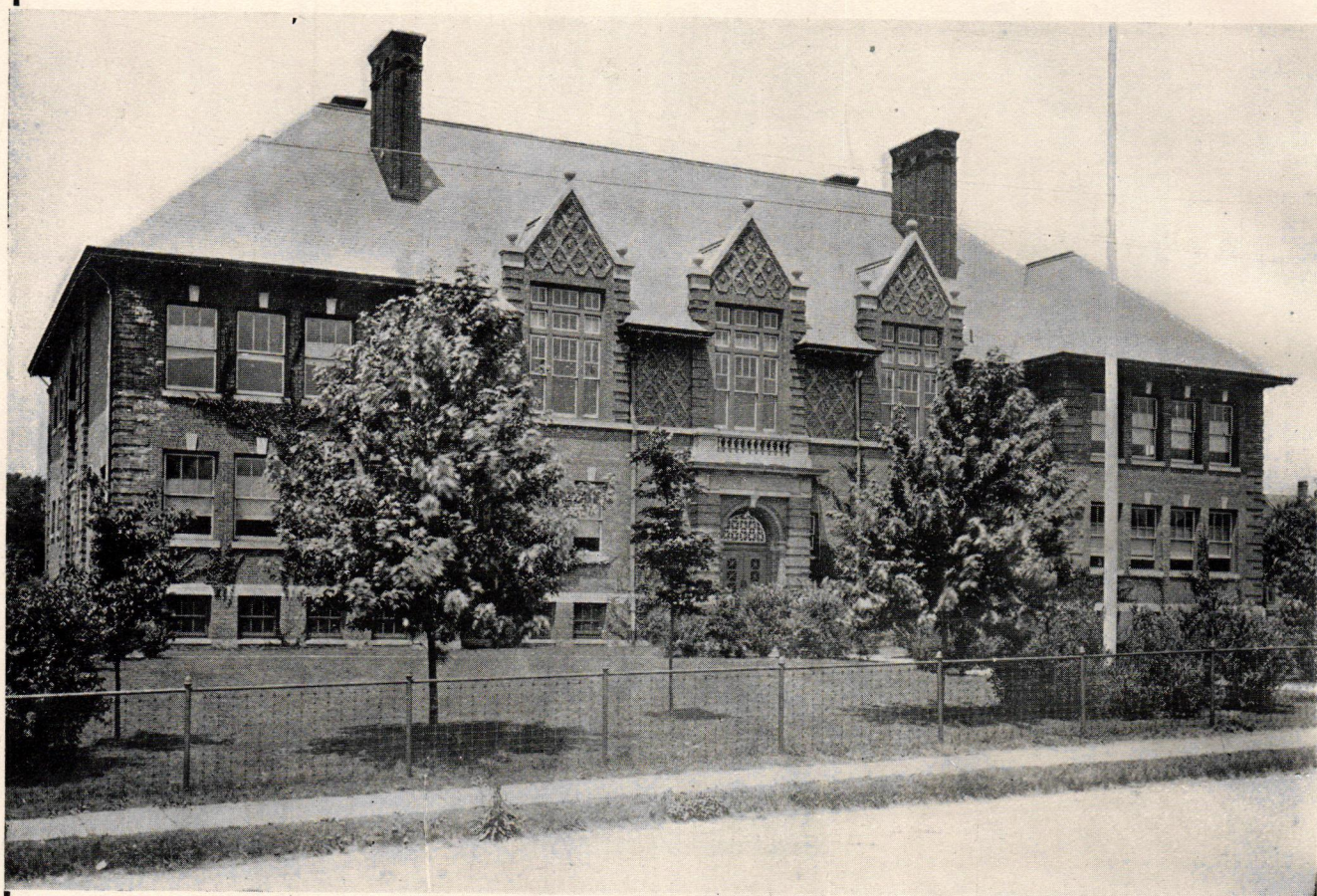
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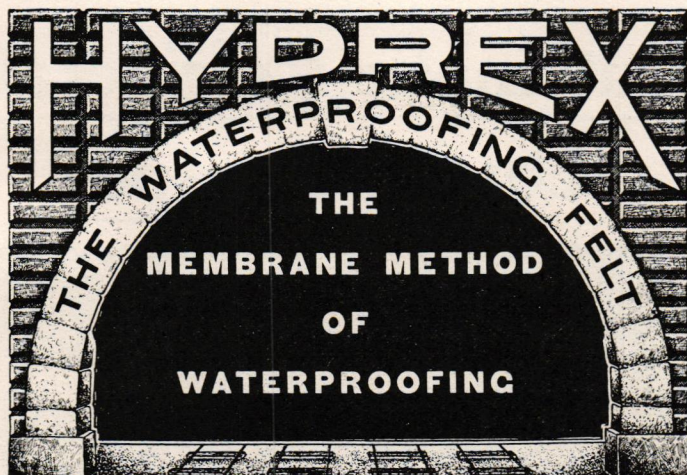
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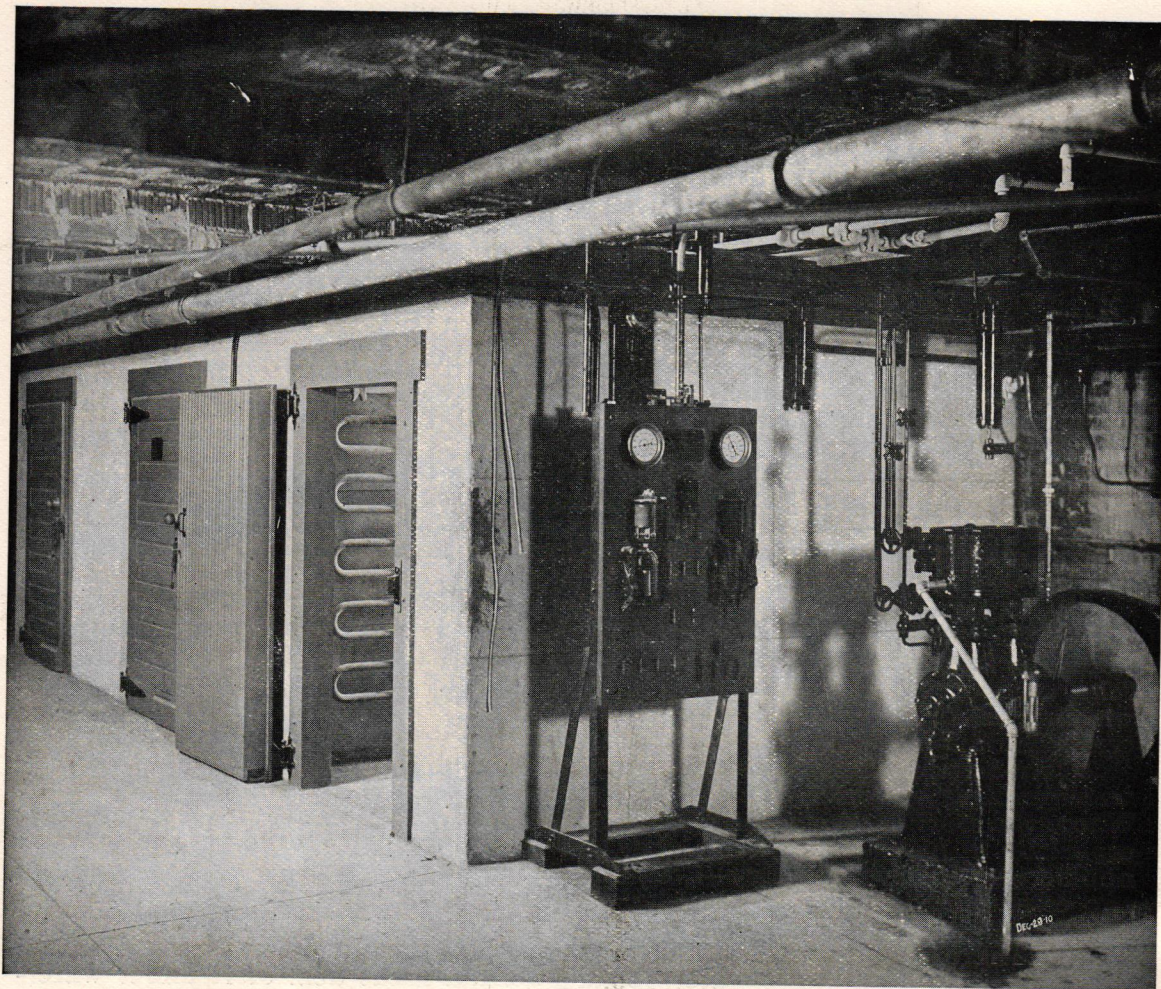
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Durability

¶ Steel pipe was first put on the market in considerable quantity in this country about twenty years ago; ten or twelve years ago the proportion of steel pipe in use amounted to about one-half the total production. It now appears that during the later period wrought-iron and steel pipe were often mixed up and used together, for during the past two years investigators have found both kinds of pipe installed together in service in water lines, thereby affording an exceedingly valuable comparison of these materials under the same conditions of service.

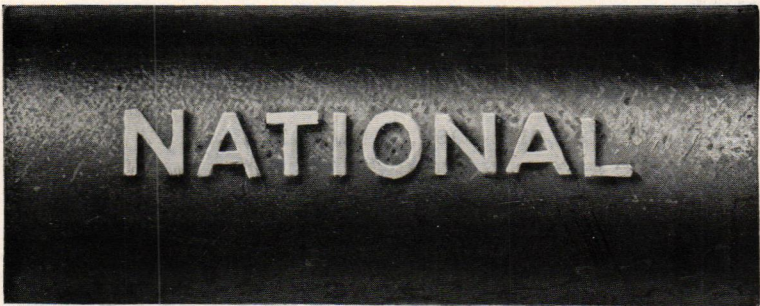
¶ The number of comparisons now on record includes considerably over one hundred cases from installations at several widely separated places, the investigations being made by many different observers. The extent of the corrosion varies from what was considered comparatively slight in some cases to the destruction of the pipe in others, the average length of service being about ten years. A tabular statement follows, the depth of pitting being given as a measure of corrosion.

SUMMARY OF SOME RESULTS OF INVESTIGATIONS OF THE CORROSION OF IRON AND STEEL IN ACTUAL SERVICE

No.	Date	Locality	Length of Time Pipe Lines were Installed	Character of Service	Authority	Number of Comparisons Found	Average of Deepest Pits		References for Details and Remarks
							Wrought Iron	Steel	
1	1910	New York City bath-houses.	3 years and over	Hot water supply service	Professor Ira H. Woolson, Columbia University.	89 samples secured, of which 17 were wrought iron and the remainder steel.	100% EQUAL	100%	Eng. News, Dec. 3, 1910, p. 630. T.C. Bulletin No. 2 This was a test of iron and steel pipe in actual service continued to destruction.
2	1910	Frick Coke Co. power plants	6 months to 7½ and 8 years, varying with the comparisons secured.	Boiler feed water lines.	Research Laboratory, National Tube Company.	21 lots comprising 52 samples, of which 26 were iron and 26 steel.	.112" 100%	.108" 96%*	Eng. Review, April, 1911; N.T.C. Bulletin No. 3. American Society Heating and Ventilating Engineers, 1911. Pipe samples secured from lines in actual use. In 22 cases of adjacent iron and steel pipes in same lines, 13 comparisons favor steel and 9 iron.
3	1911	Cresson (Pa.) coal fields	6 months to 10 years, varying with the comparisons secured.	Hot and cold water boiler feed lines; pump discharge lines.	Research Laboratory, National Tube Company.	9 comparisons of iron and steel found together.	.100" 100%	.085" 85%*	Pipe samples secured from lines in actual use. In 9 cases of adjacent iron and steel pipes found in same lines, 4 comparisons favor steel and 2 iron; in 3 cases the steel and iron are equally corroded.
4	1911	Allegheny General Hospital.	Between 7 and 8 years.	Hot water supply service	Research Laboratory, National Tube Company.	69 samples from hot water lines, 42 wrought iron and 27 steel.	.105" 100%	.105" 100%*	Conditions those of actual service, and pipe was tested to destruction. In 13 cases of adjacent iron and steel pipes found in same lines, 7 cases favor steel, and 6 iron.
5	1911	New England Investigation	2 years to 17 years, varying with the comparisons secured. Average 9 years.	Hot and cold water, live and exhaust steam, brine, blow-off lines, etc.	Dr. W. H. Walker, Director, Research Laboratory of Applied Chemistry, Massachusetts Institute of Technology	64 comparisons of iron and steel found together, in hot water and steam lines, etc.	.069" 100% .130" 100%	.063" 91%* 118%*	Jour. of New England Water Works Assn., March, 1912; Jour. of Ind. & Eng. Chem., June, 1912; Eng. News, Dec. 21, 1911. Actual service conditions. In 64 comparisons of iron and steel pipe found, 20 favor steel, 18 favor iron, 9 show equal corrosion of iron and steel, and in 17 cases the corrosion was negligible.

NOTE.—Depth of pitting in wrought iron samples considered as 100% in all cases.
(*) Calculated from the deepest pit in each sample
(**) Average of deepest pits from nine cases where corrosion was most severe.
From the above it is readily seen that steel pipe is as durable as wrought iron pipe.

To readily identify “NATIONAL” material, and as protection to manufacturer and consumer alike, the practice of the National Tube Company is to roll in raised letters of good size on each few feet of every length of welded pipe the name “NATIONAL” (except on the smaller butt-welded sizes, on which this is not mechanically feasible). When writing specifications or ordering tubular goods, specify “NATIONAL” Pipe.



We have recently issued a booklet, “MODERN WELDED PIPE,” which treats of the manufacture, uses and characteristics of tubular products. While this book was not issued for general distribution, we will gladly send a copy to any person whose letter-head or activities would indicate a legitimate use.

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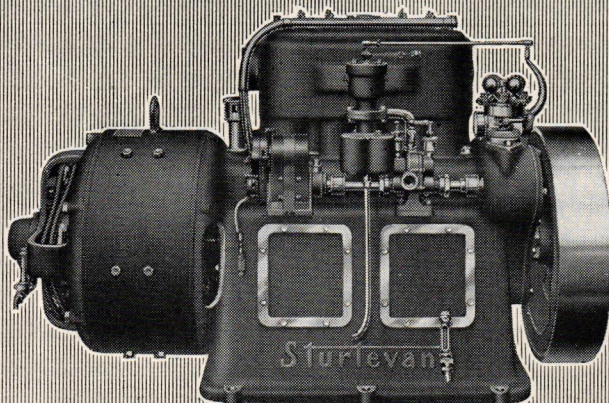
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*This announcement is the eighth of a series on “NATIONAL” MODERN WELDED PIPE.
The others appeared as follows:
“Main Characteristics of ‘National’ Modern Steel Pipe,” May 1, 1912
“Uniformity,” June 5.

“Physical Properties,” July 3.
“Structure of Wrought Steel and Iron Pipe,” August 7.
“Inspection and Marking,” September 4
“Durability,” October 2.
“Spellerizing,” November 6.

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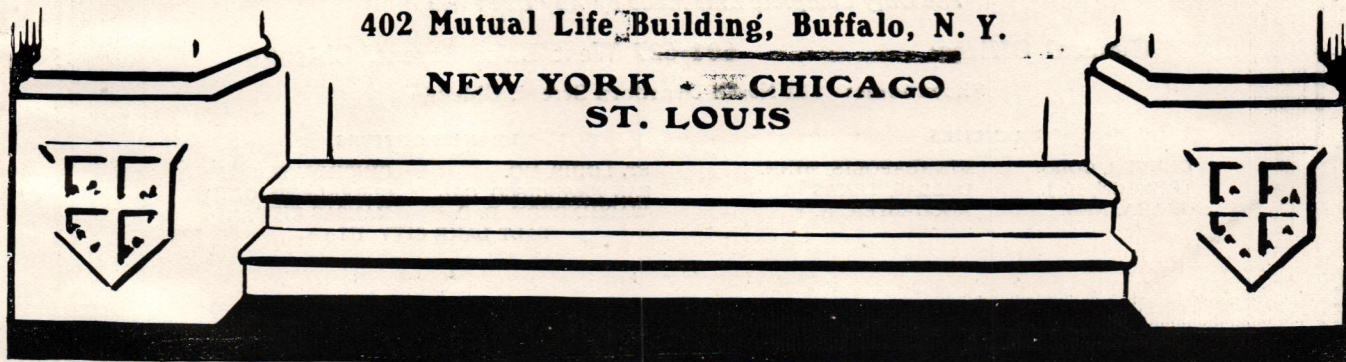
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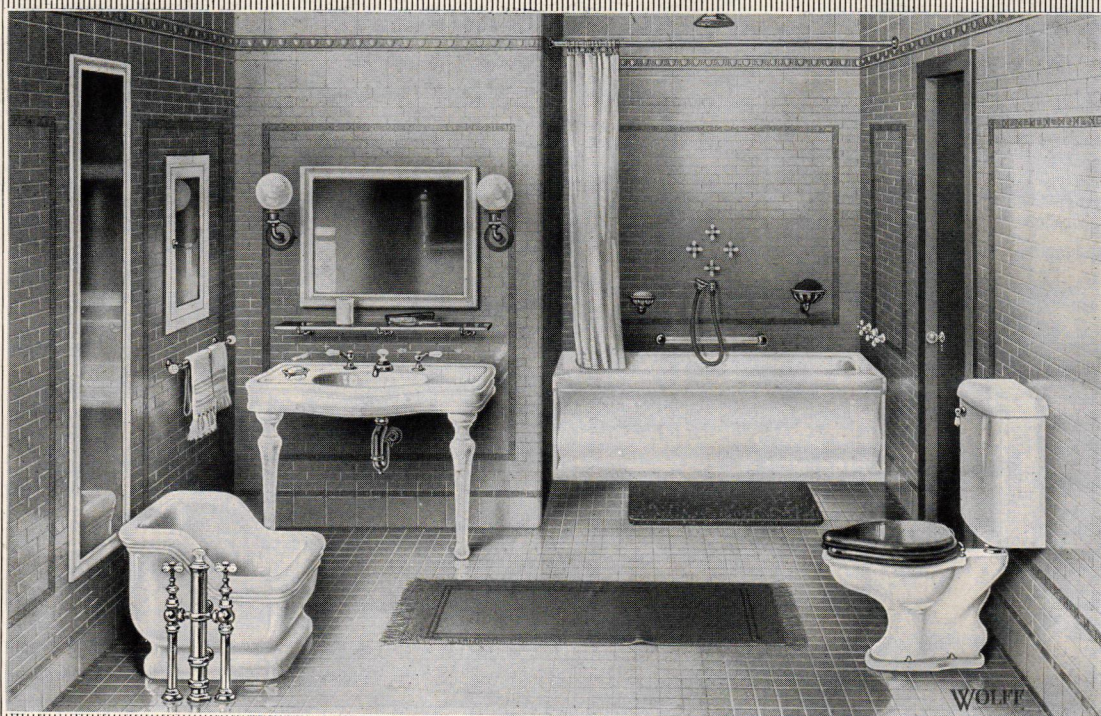
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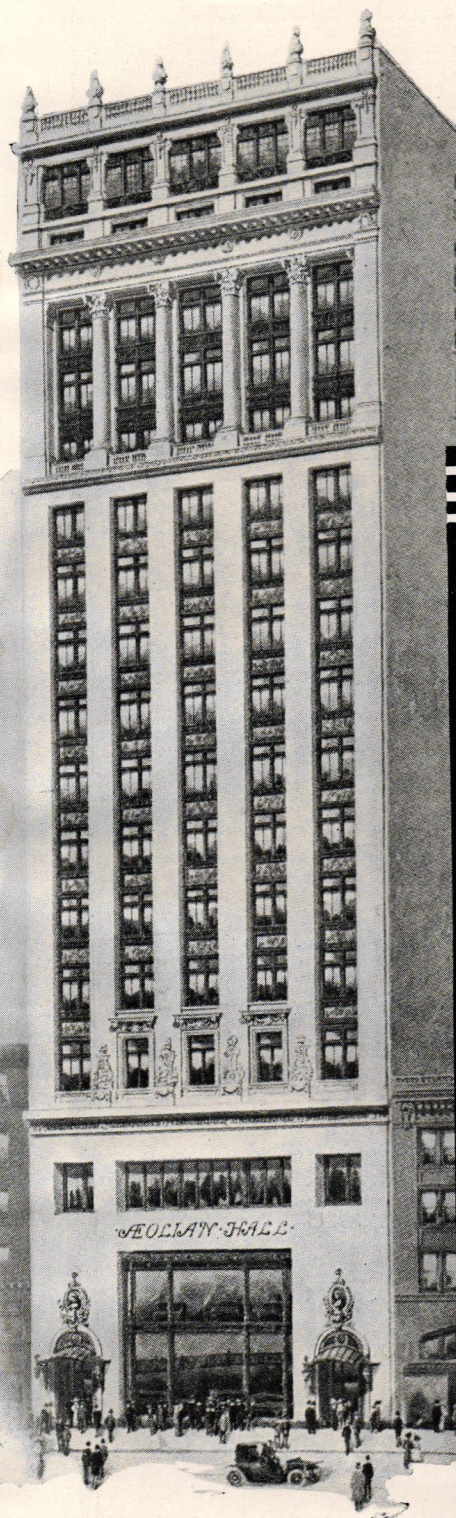
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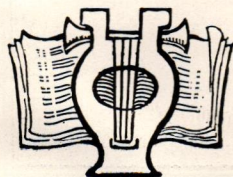
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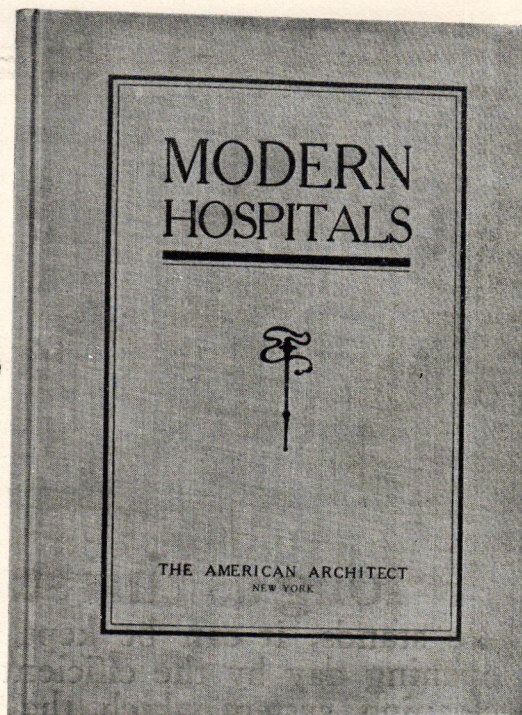
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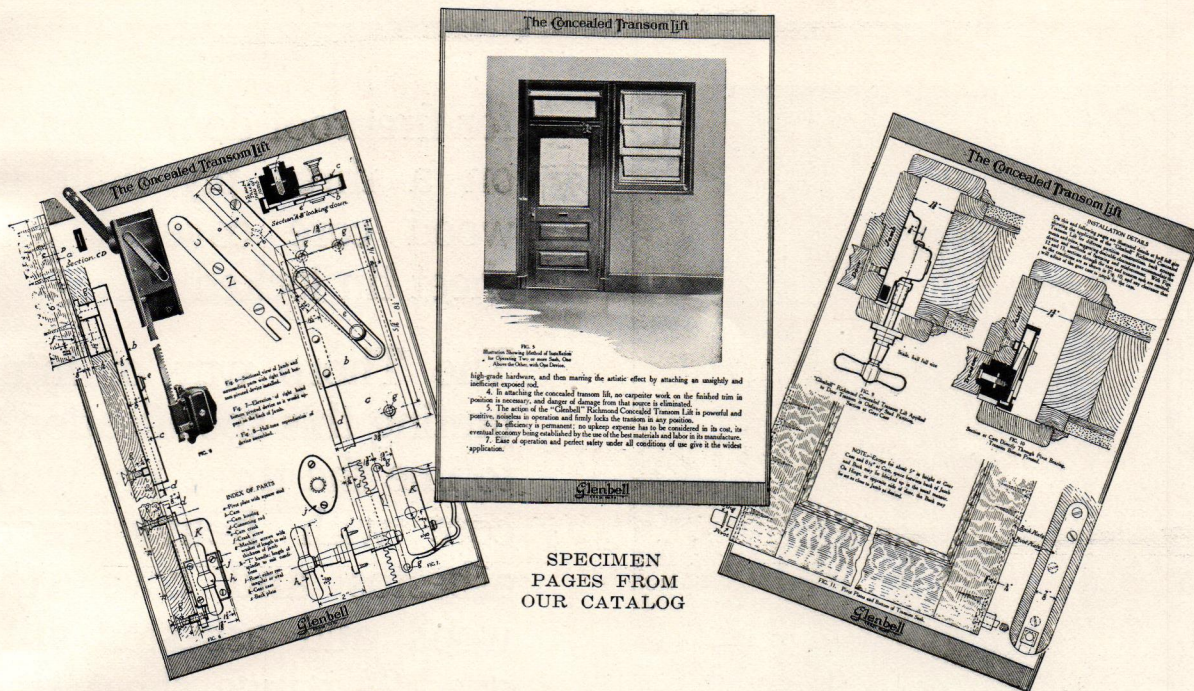
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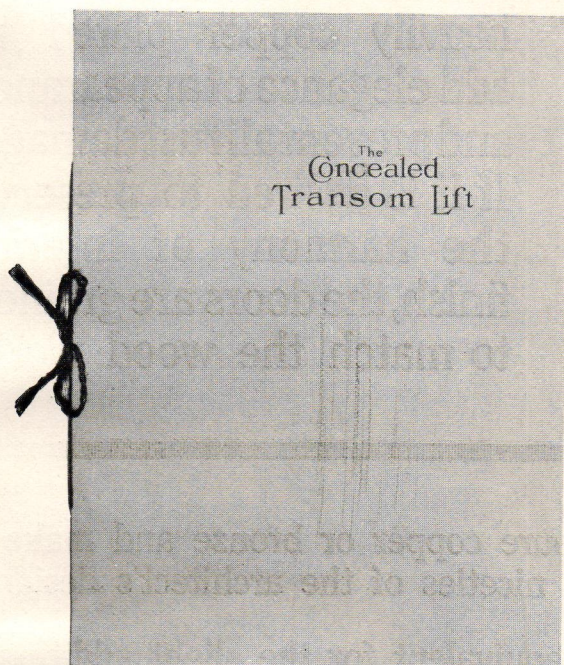
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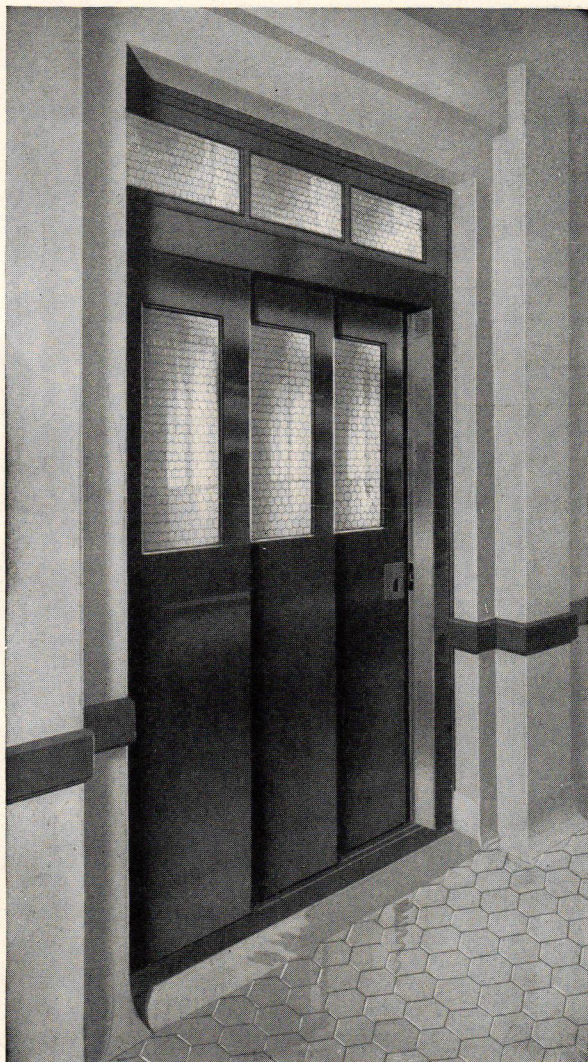
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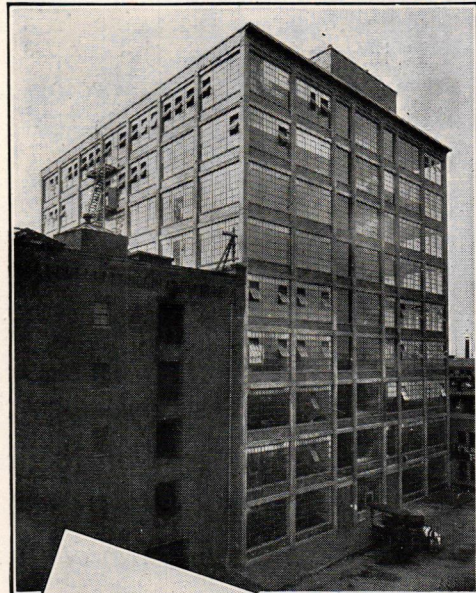
are fireproof; built to endure time and weather. These three photographs show DETROIT-FENESTRA installed in two Boston plants—The Boston Cold Storage & Terminal Co., and The Boston Elevated Ry. (power house and exterior view).

Owners, architects, builders, engineers, and those interested in building construction should send for our new Catalog W, illustrated.

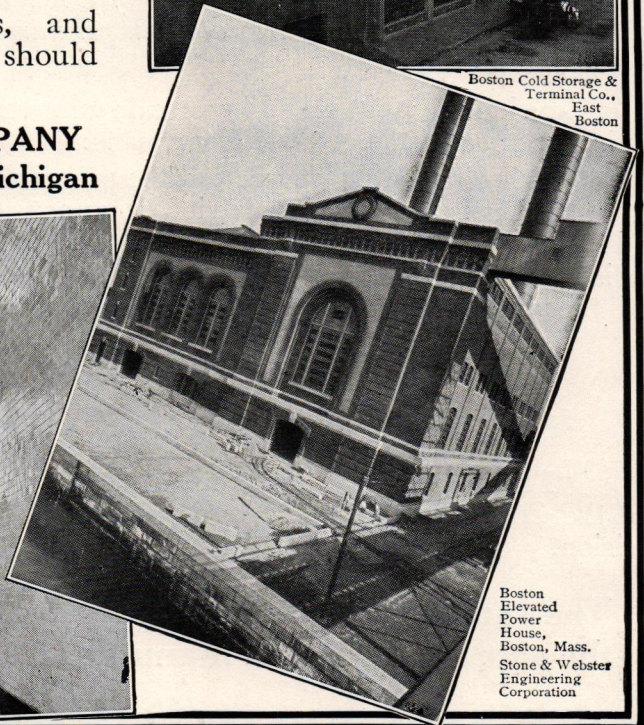
DETROIT STEEL PRODUCTS COMPANY
Manufacturers Dept. 6, Detroit, Michigan

Boston Elevated Power House, Boston, Mass.
Stone & Webster Engineering Corporation.

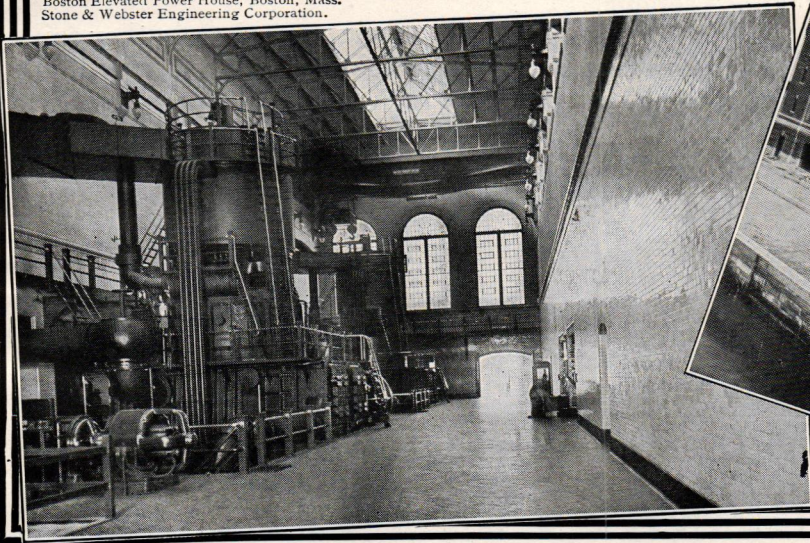
Monks & Johnson, Engineers



Boston Cold Storage & Terminal Co., East Boston



Boston Elevated Power House, Boston, Mass.
Stone & Webster Engineering Corporation



UNITED STATES DISTRICT COURT

Holds Ruud Patent No. 903,007 for water heaters to be valid, and that the water heater manufactured by the Pittsburg Water Heater Company is an infringement of said Patent

Above decision was rendered November 8th, 1912, from which we quote below the leading points touched upon by the Court.

"The problem to be solved, and here claimed to have been solved" (by the Ruud invention) "was to produce an Instantaneous Automatic Water Heater that would be (1) safe; (2) be economical; (3) heat water to a desired predetermined temperature; and (4) proportion gas consumed to the amount of water drawn, even in localities where gas and water pressures fluctuate. This was an interesting problem, having to do with an important and useful art which has much conduced to health and comfort.

Ruud was an experienced man, who had already made contributions to the art, and he was able, therefore, to approach the consideration of this problem in a practical way. He was not searching for a theory, but for an operative structure and *there can be no doubt that he produced an efficient and highly useful article in the 'T. V.' Heater*, as it is called. From the outset this T. V. Heater became a commercial success. * * * * It is manifest that the * * * * defendant well realized that Ruud had produced an article of utility and commercial value which was theretofore unknown to the markets of this or any other country."

The Court further says:

"The invention of the patent in suit consists of an Automatic Instantaneous Water Heater, in which the water flows through thin copper coils over the burners, as in the old heaters, and the flow of gas to the burners is controlled and regulated both by the flow of water through the water conduit, and the temperature of the water flowing from the heater acting through the medium of a Thermostat, the parts being so arranged that all of the gas which flows to the burners to effect the heating of the water is subjected to the control of the water actuated element and to the thermostat or temperature actuated element. By this means all of the objectionable features of both of the old heaters were eliminated, and all of the desirable features of these heaters retained, and in addition to this *an entirely new result was secured in this art, viz: The proportioning of the amount of gas consumed to the amount of water heated under all the varying conditions of water and gas main pressures and temperatures. This new result was of the highest importance in the art.*"

After thus holding that Ruud had made an invention which produced a new result of the highest importance in the art, the Court says:

"It is claimed, however, that the prior art shows water (thermal) valve heaters as defined in this issue. With this view I cannot concur."

and then proceeds to discuss the alleged anticipatory structures, and point out wherein they fail to disclose the invention of the Ruud patent. As a result of this analysis of the Ruud invention and the alleged anticipatory structures, the Court says:

"Being satisfied, therefore, that the patent in suit has disclosed invention, and that there was neither prior use nor anticipation, it remains to ascertain whether the defendant's structure infringes,"

and

"I hold the view that claims 3, 5, and 8 are infringed by defendants,"

and the Court directs that the complainant may have a decree with costs, as indicated in the decision.

The same force and effect of this decision against the defendant in the suit applies to all manufacturers of thermal valve water heaters

RUUD MANUFACTURING COMPANY PITTSBURGH AND ALL LARGE CITIES

ORIGINALITY AND INVENTION PROTECTED

The favorable interpretation by the Court of the rights conveyed under Ruud Patent No. 903,007 for Water Heaters, expresses in a very common sense manner the rights we have been battling for, and this surely must win the support of every fair minded citizen who believes that originality and invention should be protected. It has been in the past a common practice for manufacturers to pirate the inventions of another, but of late the Courts have more definitely been conferring upon the genius of American inventors the rights that properly belong to them.

OF GREAT VALUE TO THE TRADE AND USERS

This decision is of inestimable value to the trade and users alike. It guarantees the continued high standard of product we have supplied for the last fifteen years and that has built up a reputation for Ruud goods that all other makers have striven to achieve. If this patent had been declared invalid, the very natural result would have been an influx of manufacturers of similar type water heaters, whose only purpose would have been the marketing of cheaply constructed heaters, without any regard to their enduring qualities. As it stands today, the trade and user have the assurance of being able to obtain a water heater possessing invaluable features, and supported by a world wide sales and maintenance service essential to the success of a specialty of this character.

WHAT OTHERS WILL SAY

All other manufacturers of Thermal Valve Water Heaters, who are affected by this decision will very naturally make every effort to minimize its force and effect, and will still seek to make, under various subterfuges, a product which, under the decision, is liable to be enjoined. It is not our intention in any sense to intimidate nor encroach upon the free choice or will of either trade or user, but that the truth should be known to those interested in using an apparatus free from any possible question of infringement is, we consider, our duty, which must be appreciated by all those interested in a question of such far reaching consequences.

RUUD BUILT UPON MERIT

Since the inception of the Ruud Manufacturing Company, its products have been famous for their originality, and effective construction, and upon this broad foundation has our business been built. We have strenuously presented the merit of our goods, and claimed your patronage strictly upon the basis of quality goods at a fair market price. That we have been successful is attested by the fact that we today sell more water heaters than all makers, and that we have more water heaters in use than all other makes combined.

THE BIGGEST QUESTION ANSWERED

Buyers of water heaters want a reliable mechanical apparatus, that can be depended upon to perform its functions with precision and economy. The Ruud mechanism is the simplest ever devised in connection with an Automatic Water Heater. There are no catch-penny frills or ideas in its makeup. It is as simple as one, two, three. The Ruud thermostat placed in the heat zone of the heater, without the use of check valves, expansion of water, or any other intermediaries or accessories, controls the flow of gas under any and every condition of gas and water pressures. Every other water heater on the market, having an outside thermostat, fails to control the gas when the water valve becomes inoperative, and no water valve has ever been designed that will remain indefinitely free from trouble. The Ruud is a full fledged dual controlled water heater, and the only one on the market that actually performs the results claimed for it. This statement, as broad as it may seem, can be proven by yourself if you will "stick" open the water pressure controlled gas valve and close the faucet on other makes of heaters. You will then find that the thermostat is of no value, and that the heater will create steam and wreck itself. With the *Ruud*, repeat the same operation, and you will find that the thermostat will control the flow of gas just as readily as if the water valve was in perfect operative condition. The question that is most vital to you is a water heater that gives the results you expect of it, and this you get in the *Ruud*.

RUUD MANUFACTURING COMPANY PITTSBURGH AND
ALL LARGE CITIES

YES, YOU CAN
BE SURE OF



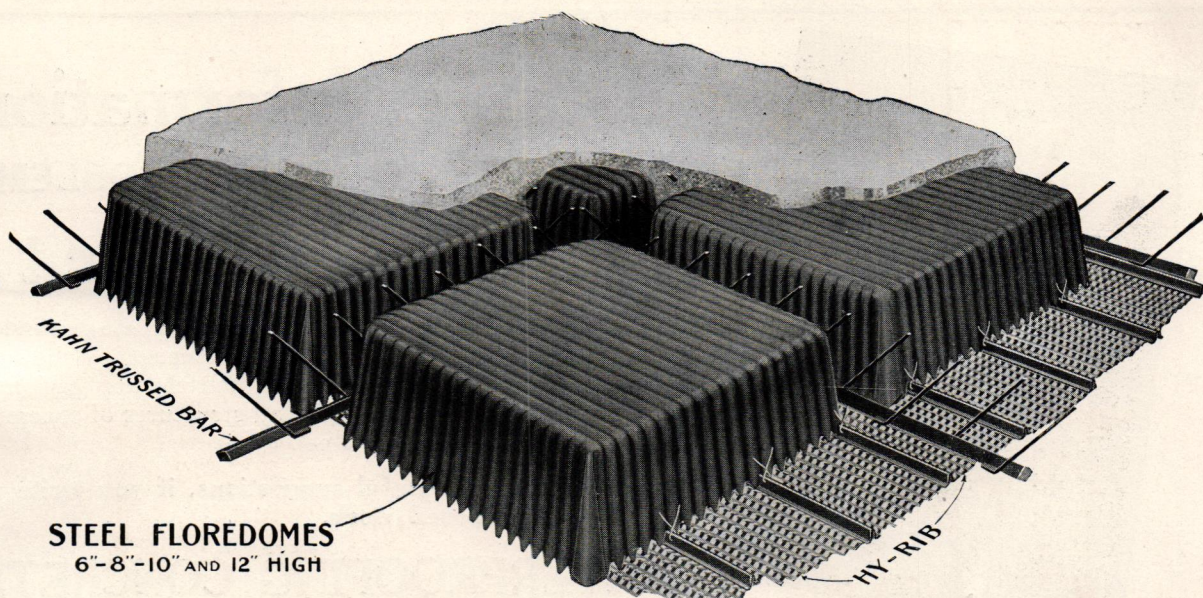
WHENEVER
YOU SPECIFY IT

If you have been annoyed by the more or less prevalent belief (even among architects well-posted on all other matters) that WHITE PINE (or its frequent alternate, Norway Pine) was either hard to get or unduly high in price, JUST WRITE US—or simply drop us a postal card—and *we will set you right, and tell you why, and prove it*—AND YOU'LL BE GLAD OF IT.

NORTHERN PINE
MANUFACTURERS' ASSOCIATION

1120 Lumber Exchange

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

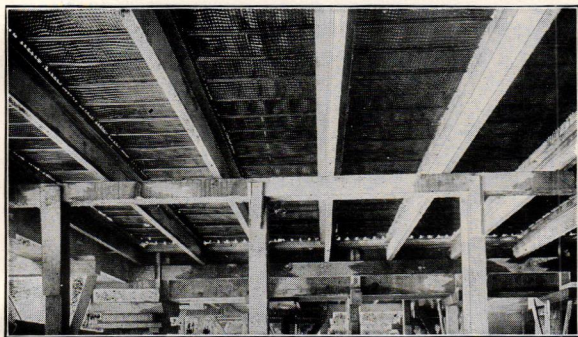
FLOREDOMES are of one piece and absolutely water-tight. No possibility of loss of concrete between joints such as occurs when hollow tile are butted against each other.

SHIPPED ANYWHERE—LOW FREIGHT CHARGES

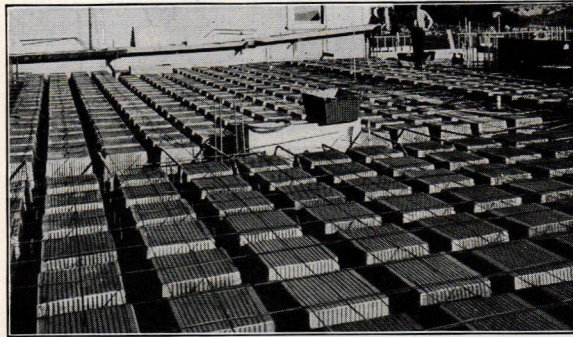
FLOREDOMES are light in weight, saving greatly in freight, shipping and hauling charges. Can be shipped anywhere. They are slightly tapered so that they can be readily nested to secure a full carload shipment.

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. Tabor School, Portland, Ore. Note straight and true lines of FLOREDOMES and accurate spacing of joists.

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Trussed Concrete Steel Company
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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.

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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 damp-proofings 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.

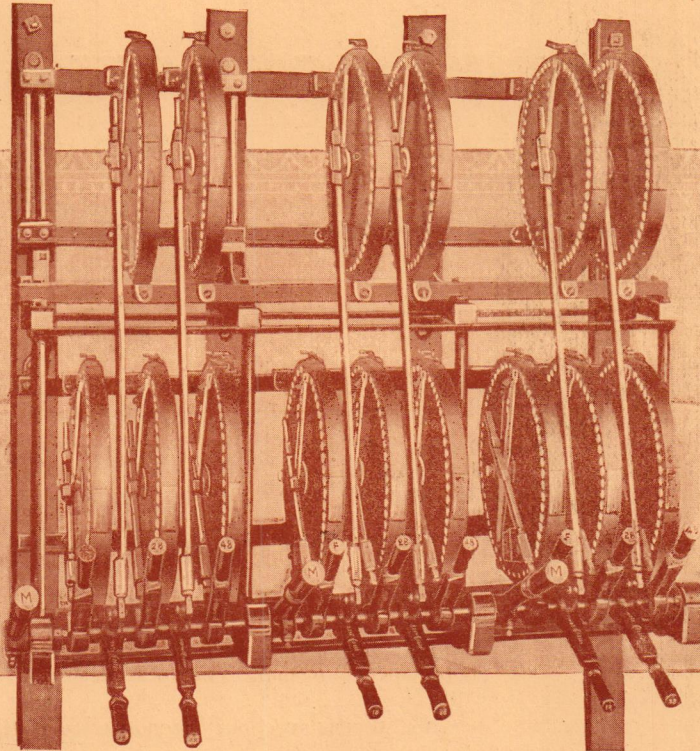
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TRUS-CON INDUSTRIAL ENAMEL, a gloss coating of whitest white, with powerful light-reflecting qualities. Insures greatest utilization of all available light. Will not peel, flake or dust off. Readily washed and cleaned. Indefinitely retains its initial whiteness and lustre.

Write for **FREE** Color Card and sample finished block or panel.

TRUSSED CONCRETE STEEL CO.
DETROIT, MICHIGAN





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The finest gradations of light and shade are obtained by G-E Dimmers.

The areas of contacts and contact shoes are liberal.

Plates have a maximum life under heavy overloads.

Operation is smooth, easy, positive and noiseless.

Rigidly and substantially built with all parts readily accessible.

These and many other exclusive mechanical and engineering features such as improved interlocking, case-hardened steel where interlocking plungers drop into slots and other excellent innovations, make the G-E Dimmer the most serviceable and satisfactory to install.

Made in any combination to fit exactly conditions called for.

What a customer says:—"Our electrical engineer recently completed a thorough examination and test of the General Electric Company's Dimmers installed in our theatre and reported them perfect electrically and mechanically. They operate smoothly and the arrangement is such that every possible combination of effect can be readily obtained. The General Electric Dimmers fulfill our requirements in every respect and we are well satisfied with them."

In the new G-E Dimmer for metal filament lamps there are one hundred steps—obtained without increasing standard size of plate.

General Electric Company

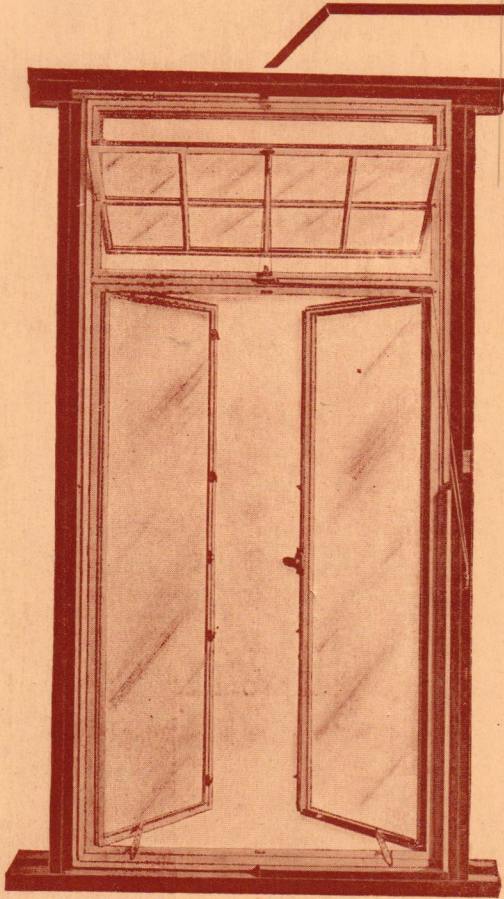
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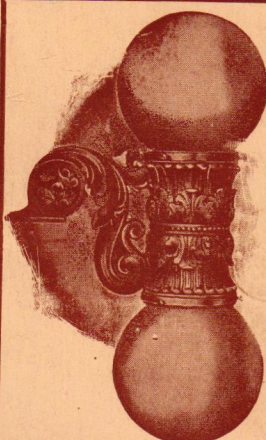
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