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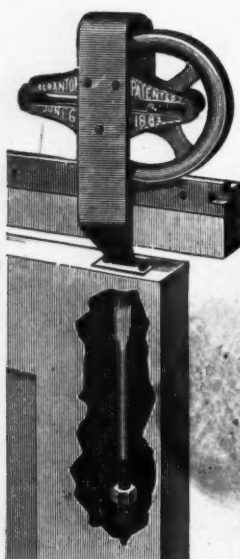
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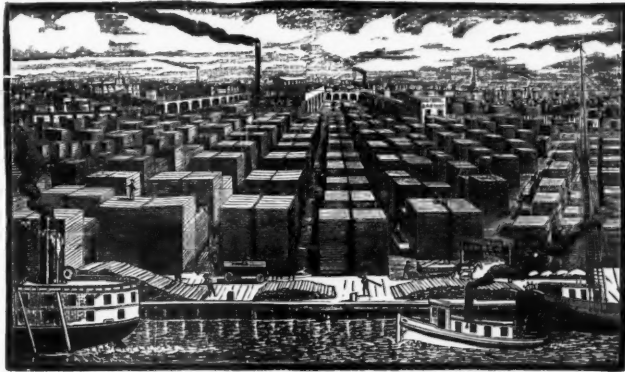
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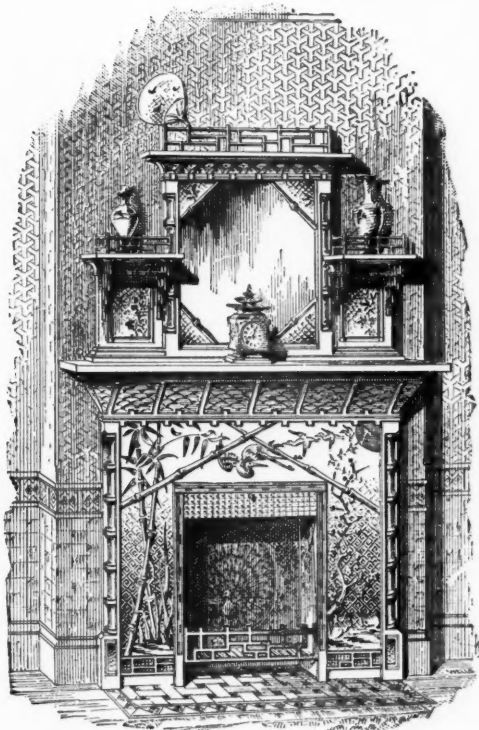
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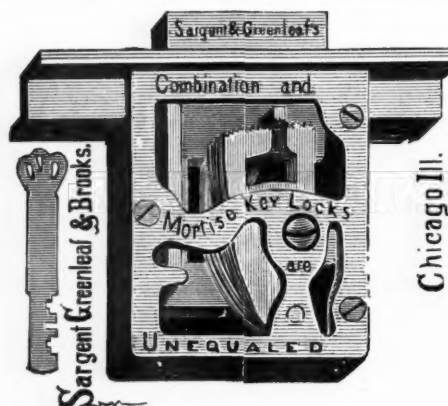
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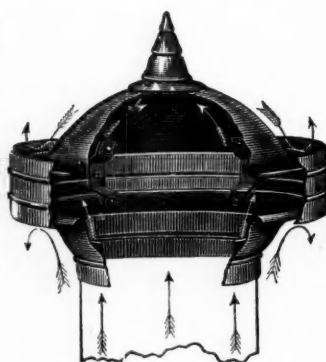
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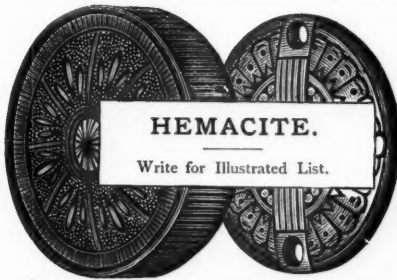
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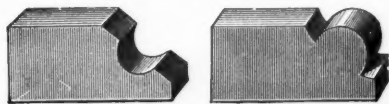
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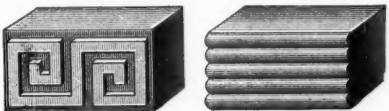
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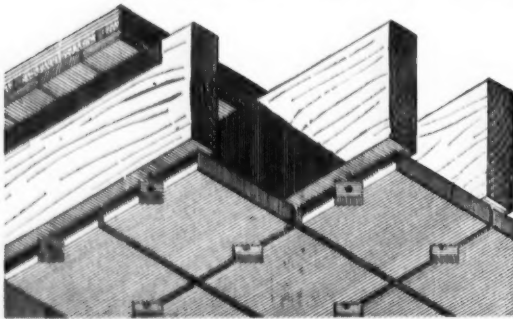
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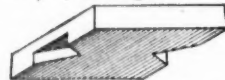
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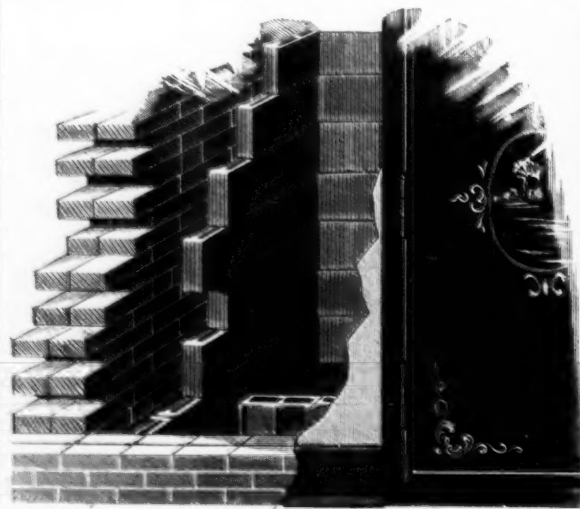
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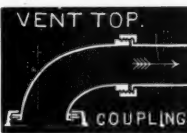
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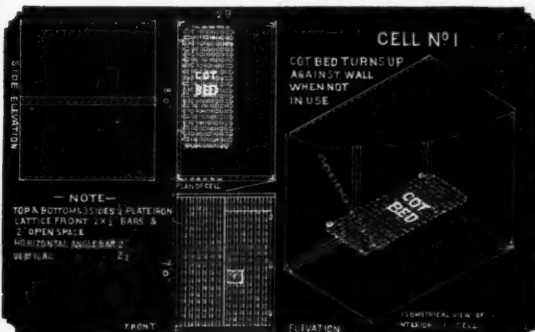
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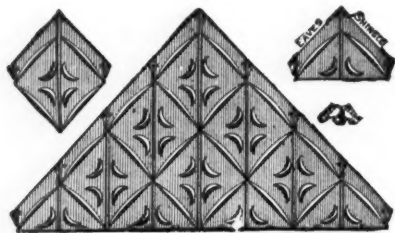
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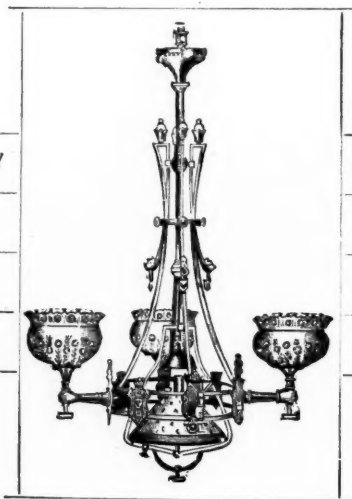
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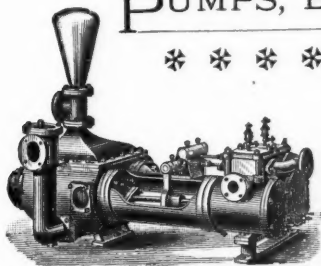
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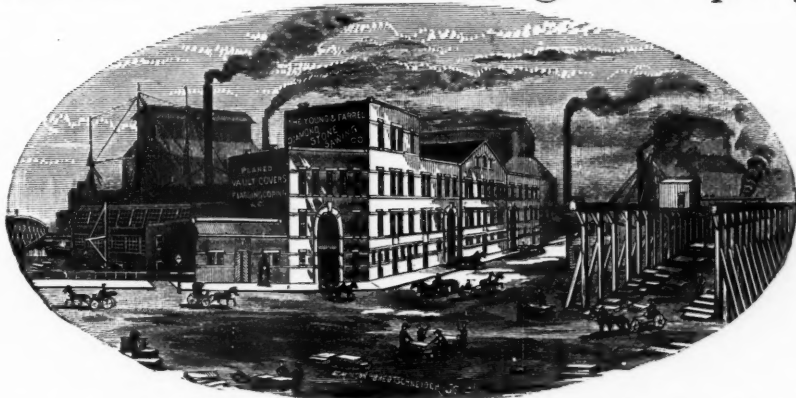
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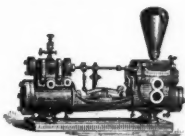
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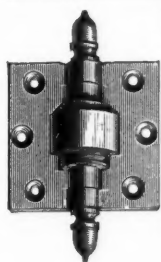
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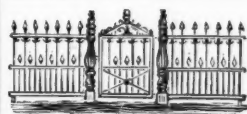
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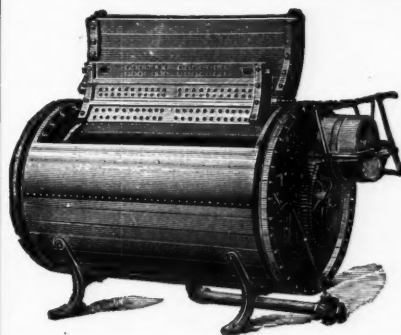
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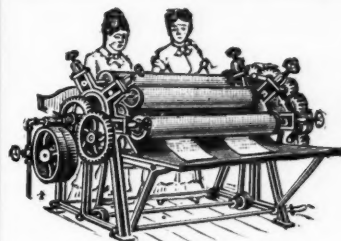
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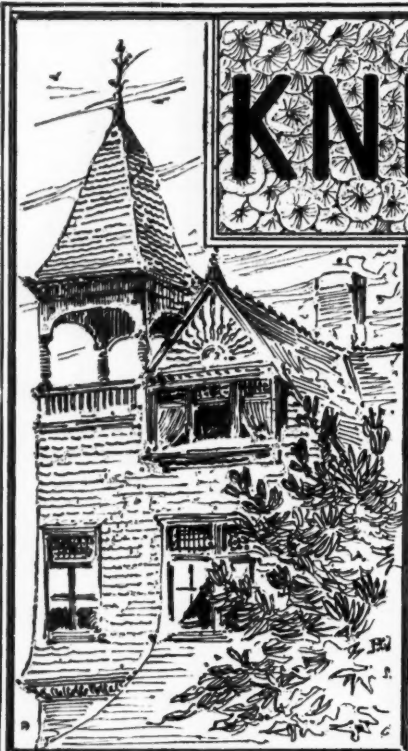
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Brickmason (Front).....	5 00	5 00	5 00	4 50@5 00	10 00	4 50	5 00	4 50	3 50	4 50	4 00	4 50	4 00	4 00	5 00	4 50	4 50	5 00	6 00
Carpenter.....	2 50	2 50	2 50	2 50@2 75	3 50	2 50	2 75	2 50	1 50@1 62	2 00	3 00	2 25	2 50	3 00	2 25	2 50	2 50	2 50	3 00
Cabinetmaker.....					3 00	3 00	3 00	2 50	2 00	3 00	2 50	2 50	2 50	3 00	3 00	2 50	2 50	2 50	3 00
Finisher.....		3 00		3 00	3 00	3 00	3 00	2 50	1 75@2 00	3 00	2 50	2 50	2 50	3 00	3 00	3 00	3 00	3 50	3 00
Gasfitter.....				2 50@3 00	3 25	3 25	2 50	2 00	2 00@2 50	3 50	3 00	3 00	2 50	3 00	3 00	4 00	4 00	3 50	3 50
Laborer.....	1 75	1 50	1 50	1 25@1 75	3 00	1 50	1 50	1 75	1 25	2 00	2 50	2 50	2 25	2 50	2 50	2 50	2 50	2 50	3 00
Painter.....	2 25	2 50		2 25@2 50	3 00	2 50	2 50	2 25	2 25	2 50	2 50	2 50	2 50	2 50	2 50	2 50	2 50	2 50	3 00
Glazier.....					3 50	3 50	3 50	3 50	3 00@3 50	3 00	3 00	3 00	3 00	3 00	3 00	4 00	4 00	4 50	5 00
Plasterer.....	2 50	3 50@4 00	3 50	8 hrs. 3 50	4 50	3 50	3 50	3 50	3 00@3 50	3 00	3 00	3 00	3 00	3 00	3 00	4 00	4 00	3 50	5 00
Plumber.....		2 50@3 00	3 50@4 00		4 00	3 50	3 50	3 50	3 00@3 50	3 00	3 00	3 00	3 00	3 00	3 00	4 00	4 00	3 50	5 00
Stonemason.....	3 00	3 50	2 50	4 00	4 50	3 50	3 50	3 50	3 00	3 25	2 50	3 00	3 00	3 00	3 00	3 00	3 50	4 00	4 00
Carver.....	5 00	5 00	4 00	4 50@5 00	4 50	3 50	3 50	4 00	3 00@3 50	3 00	4 00	3 00	3 50	3 50	4 00	4 00	4 00	4 00	4 00
Stonemason.....	3 50	4 00	4 00	3 75@4 00	5 00	3 50	3 50	4 00	3 00	3 25	3 50	3 00	3 00	3 50	4 00	4 00	4 00	4 00	4 50
Stonesetter.....	3 50	3 50	3 50	4 00	5 00	3 50	3 50	4 00	3 00@3 50	3 00	3 00	3 00	2 50	3 50	4 00	4 00	4 00	4 00	4 50
Roofer (Tin).....				2 75	3 25	2 75	2 50	2 00	2 50	3 00	3 00	3 00	2 50	3 50	4 00	4 00	4 00	4 00	4 50
Slaters.....				2 75	3 25	2 75	2 50	2 00	2 50	3 00	3 00	3 00	2 50	3 50	4 00	4 00	4 00	4 00	4 50
Steamfitter.....		3 50	3 00	3 25@3 75	4 50	2 75	3 00	3 25	2 25@3 00	3 00	5 00	4 00	4 00	3 00	3 50	4 00	4 00	3 50	5 00

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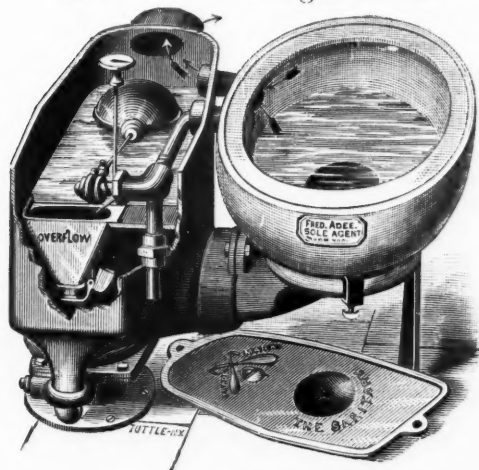


FIG. 1. STRAIGHT OUTLET.

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FIG. 2. WITH OFFSET.

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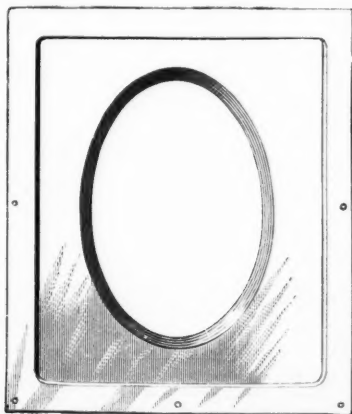
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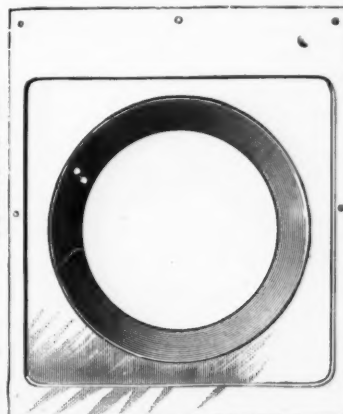
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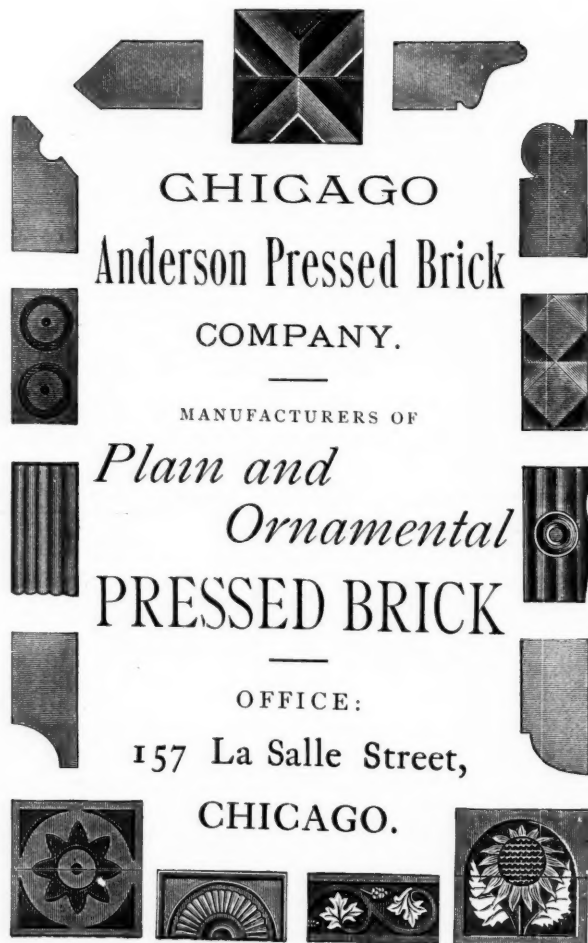
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THE INLAND ARCHITECT AND BUILDER.

Vol. VI.

No. 3

OCTOBER, 1885.

THE INLAND ARCHITECT AND BUILDER

A Monthly Journal Devoted to

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Construction, Decoration and Furnishing
IN THE WEST.

OFFICIAL ORGAN OF THE WESTERN ASSOCIATION OF ARCHITECTS
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The St. Louis Convention meets November 18;
the Board of Directors, November 16 and 17.

Though the railroads have not taken official action upon the matter, a rate will doubtless be received which will not be more than \$10 round trip. The hotel, where it is hoped every architect will establish himself during convention, has not been definitely settled upon, but the expense will not be more than \$2.50 per day. Further information will be given in our Intermediate News issue.

ARCHITECTURAL associations are developing so rapidly in the West, and so much of interest in their proceedings, as well as in new building projects, is constantly occurring that a monthly record lacks the freshness so essential in matters of news. These facts have decided the management of this journal to publish as an auxiliary to the monthly issue of the INLAND ARCHITECT AND BUILDER what will be known as the "Intermediate News Number." This will be a neat but unpretentious sheet, devoted strictly to association and building news with brief editorial comment, and will enable us to give our readers much better service in our news department than heretofore. The first number will date midway between our regular October and November issues.

THE American Institute of Architects holds its convention this year in Nashville, Tennessee, October 21. According to the programme already announced, they will meet in the Senate Chamber of the Capitol, where they will be welcomed by members of the art associations and prominent citizens. The Stockslager bill will be a prominent subject of discussion. There will be excursions each afternoon, and a reception and promenade concert and a banquet by the art associations and other citizens of Nashville will occupy the evening. We hope every architect who can, will attend this convention. The position of THE INLAND ARCHITECT is entirely catholic in this matter of conventions. Every architect should feel himself directly interested in the success of each, and so far as he can, should bear his share in sustaining them. The common cause is the elevation of the practice and profession of architecture in our common country.

THE notices for the St. Louis convention of the Western Association of Architects have brought favorable responses from fifteen states and territories, ranging from Wyoming, Minnesota, and Dakota, to Louisiana and Texas, and including Illinois, Indiana, Ohio, Iowa, Missouri, Kentucky, Michigan, Nebraska, and Wisconsin. A St. Louis paper, commenting on the subject, remarks "Grander territory than this it was never the province of any organization to occupy and improve. Whether its performances will be commensurate with its field rests with the architects themselves," etc. This means that every architect is expected to come. Architect reader, if you have replied in the affirmative, make it a point to come "though the heavens fall." If you have sent regrets hasten to withdraw them lest, if you miss this meeting, they become more poignant though unavailing. If you have not replied, lose no time in doing so, for you are invited, and when you discover the size and quality of this convention you will surely repent if you leave yourself out. The great subject of competitions and various other important topics will receive such a thorough ventilation as they have never enjoyed before, and every architect should improve the opportunity to attend and participate. Let the *esprit de corps* of a great profession manifest itself on this occasion.

A RECENT number of the *American Architect* contains a lugubrious letter from a competitor for the Toronto court house, a scheme "where requirements and conditions," he says, "were of the most unobjectionable nature, which promised a committee of experts as judges, which divided \$1,000 in premiums, which promised most fair and equitable treatment, but which, alas! has sadly fallen from the gracefulness of its promise." What a tempting offer, indeed, was that \$1,000, to be divided up in premiums on plans for a \$200,000 building, when a single preliminary small scale study would be worth \$2,000 at the lowest schedule rate! Even this scanty pittance was never paid. Some fifty designs were received. The circular, calling for plans, stated "that no prize be awarded to any plan, the carrying out of which will exceed \$200,000." The committee astutely divided the fifty plans into two classes, those which conformed more or less to the limit of cost, and those which did not. All the former were thrown out as being "so defective in general arrangement and deficient in light, etc., and so unsuitable * * * as not to be worthy of further consideration." The rest were served the same way because, their cost exceeding the limit, "we are prevented by clause No. 3 from making any award of the premiums."

THEY add, "The competitors have no doubt expended a vast amount of time and money (sic) in the preparation of their plans, but, with such a definite condition as that of clause No. 3 in the circular, they have done so at their own risk." This parting salute is cool and pregnant rather with contempt than consolation for the fifty dupes who confided in the intelligence and honor of this committee, but it is full of common sense. It would be well if every architect would cut it out and past it over his desk where he can have it ever before his eyes. This is the sort of esteem which defenseless credulity, no matter how talented, educated and cultured, always inspires. But if architects would organize themselves into active and potent associations, vigilant and influential enough to protect the honest rights of each member,

committees would quickly lay aside their contemptuous manners. The fault, therefore, and the remedy, are wholly with the architects. Let every member of the profession who is willing by his voice and vote to aid his fellows in establishing a better order of things, attend without fail one or both of the approaching architectural conventions (the American Institute, in Nashville, October 21, and the Western Association, in St. Louis, November 11) and share in their proceedings, which will include the subject of competitions. At the St. Louis convention a special committee on competitions will present a report, and this will be the golden opportunity for everyone who can contribute any helpful suggestion to bring it forth, and thus inaugurate the downfall of competition embezzlements.

CONCERNING the proposed million-dollar monument to General Grant, a number of eminent architects in eastern cities and in Chicago have united in a letter to the committee in charge, requesting that a competition be instituted for the selection of their architect. They suggest that the American Institute of Architects nominate the ten architects whom it considers "best qualified to make an appropriate design for the monument;" that three of these prepare the programme, and then the whole ten be invited to submit designs in competition, for which they shall receive \$1,000 each; also that the competition be open to all other architects, and that \$1,000 and \$500 respectively be awarded for the two best designs of the outsiders, the jury to consist of the ten architects invited and ten laymen. On this a correspondent of the *Sanitary Engineer*, writing apparently from the business man's standpoint, makes some trenchant and pertinent observations. Commenting on the inconsistency of architects in advising a competition at one time, and at all others denouncing it as degrading to the profession and delusive to the public, he asks why architects should feel that they need a recommendation to the public from the American Institute, or why they should require any other reference than the buildings they have erected, and which on plazas and street corners proclaim, in broad daylight, the skill of their designers to every beholder. He discovers herein a "want of self-reliance and independence of character * * * and an imperfect understanding of his own position in society."

IT may be said, in reply to all this, that, while not receding from their previous deliverances on the subject of competitions, these architects, regarding a competition as inevitable, have sought to guard it with such conditions as should eliminate the usual mistakes and be most likely to conduce to a result satisfactory to the public. That such would be the tendency of these regulations, so far as they go, is undeniable. Whether they go far enough is open to question. On the other point architects may remark that a New York committee would be more familiar with the buildings of New York architects than with those of other cities, and that in choosing from the profession at large the American Institute would make the wiser selection. Moreover, it must be admitted that on many points the Institute's judgment as to the architectural merits of New York buildings would be valuable to the committee. In regard to the refinement of style, proportion, taste, the aesthetics of architecture, it would be more secure against capture by meretricious ornament, false construction, inharmonious combinations and plagiarisms. Unfortunately, the buildings most admired by the lay public are not certain to embody the best architecture. But the point is well taken that the public would think more of architects if they would show themselves more self-reliant,

more independent of the recommendation of others, more satisfied to stand on the record of their works. Herein lies one inherent vice of competitions. A competing architect cuts loose from his record, steps down from his justly earned position, loses, for the time, his historic personality, and scrambles for employment on the common level of the most inexperienced, most recordless competitor. The man himself in these schemes is ignored completely; the plan is all that is considered to have any importance.

SOME of our well meaning cotemporaries, east and west, have lately been proclaiming their disapprobation and surprise at the comments on modern sanitary literature and practice, which appeared in the August number of this journal. These critics have taken a long time to make up their minds and therefore we presume their emotions are now to be regarded as well seasoned. In reply, we deferentially remark that THE INLAND ARCHITECT never engaged not to surprise its contemporaries, and, when compelled to choose, it has always been more concerned to instruct than to please. The aspects of truth are infinite. New views which tend to disturb old opinions are no less valuable that they are ill received at first. Science and practice live only while they advance. To aid in guiding this advance, to point out new lines of improvement, to call attention to wayward tendencies in existing practice, is a service all the more needful that it is often unwelcome. To this field THE INLAND ARCHITECT considers itself called. Its views may not always find ready acceptance with every reader, pleasant as that might be, but they will be honestly expressed, and those who honestly differ and can give a reason for the faith that is in them, are invited to do so, and are assured of a fair consideration. Candid, intelligent criticism is always welcome from whatever quarter. It will be our aim in part to stimulate such discussion. But when contemporaries, east or west, have no other comment to offer than expressions of their individual incredulity, surprise, etc., we must be excused for believing that that is a matter of concern chiefly to themselves.

"LA SEMAINE DES CONSTRUCTEURS" gives a ruling in a dispute between an owner and a contractor, which appears to us eminently simple and just, and which we quote as likely to be of service to our readers. A builder had engaged to erect a certain structure for a fixed sum of money, according to certain drawings and specifications. The party walls were not figured as to their thickness, but measured eighteen inches by scale, and were so taken. They were represented as standing on an old foundation of the same thickness. All the other walls were properly figured. After the contract was signed and work begun, the old foundation proved to be only thirteen inches thick, and consequently the walls above were built thirteen inches thick. The owner made no objection, but claimed a credit for the reduced thickness of the wall. This was refused for the following reasons: While the builder was bound by his contract to erect the house for a fixed sum, regardless of the actual cost to himself, or of losses he might suffer through changes in the price of labor or of materials, or by additions or changes made without previous written agreement with the owner, it is equally true that the contract price cannot be affected by abatement when the unforeseen conditions operate to his advantage, unless there were like written agreement with the owner to that effect beforehand. The differences between the actual cost of work and the contract sum constitute the profit or loss of the contractor. These are subject to many unforeseen influences favorable and unfavorable. The law

will not permit the fixed sum to be changed by either party to the disadvantage of the other, except as provided in the contract. If there can be no increase without written agreement in advance, there can be no abatement without such agreement.

TELEPHONE patents are being closely investigated by the government, and the result will probably be disastrous to the monopoly of the business so long enjoyed by the Bell company. The result looked for in the litigation now in progress before the Senate Committee on Patents, and also in the petition of the United States district attorney at Memphis will probably not benefit the Reis patent or injure the Bell interest so much as it will tend to throw the telephone business open to competition. Like everything else, the question has two sides, and in this case the benefits to be derived by so thorough a change are questionable. In Chicago the central office has between 1,000 and 1,200 wires, which are handled by thirty-two operators, at a cost of about \$1,000 a month, or about \$1 per wire per month. When the company commenced operations eight years ago the charge was \$75 a year, and though it has increased to \$125 per year it is still far below the prices received in some of the eastern cities, while the service per wire is heavier than in any other city in the United States, and as compared with other western cities. The average of Milwaukee is about three per wire per day, that of St. Louis about five or six, while in Chicago it is not less than nine. The service in Chicago is not absolutely perfect, but when it is considered that in the multiplicity of wires, difficulty of keeping them in perfect repair, and the city law prohibiting the stringing of new wires, and the work of placing them underground, which is constantly progressing, there is not only an extraordinary expense, but an unavoidable disarrangement of system involved, the public will see that they are getting what has become an indispensable service at a very reasonable rate.

WHILE the increase in the tariff has been charged to monopoly, it might be explained from an entirely different reason. With every new subscriber comes not only the expense of operating that one wire, but it increases the work upon every wire in the exchange. This can readily be seen by supposing the accession of a large wholesale house, and considering the increase of work when the fact of their possessing a telephone becomes known to their several hundred customers about town. Much as may have been said to the contrary, the telephone companies, as a rule, try to give the best services possible, and in order to do this, as well as to decrease the expense of operation, they constantly add new apparatus to their exchange stations, a case in point being the fact that the switch boards in the Chicago head station having been changed nine times since the commencement of the service. It may be well to again reiterate that the telephone is not yet a perfect instrument, but the patience and coöperation of the public will do much toward facilitating the service. In long distance work nothing practical has been done in the past two years, though we have seen much that is experimental. From forty to eighty miles is about the limit of reliable work, while even at that distance the work is uncertain, depending much upon atmospheric conditions. There is no doubt, however, that in the near future some surprising work will be done in practical telephone service. Meanwhile, it would be well if the public consider well the situation, with a so-called monopoly furnishing efficient service at, may be, a somewhat high rate, and a free-for-all race between rival companies, where, if the rates be low, the service is too apt to be more than correspondingly inefficient.

JOAQUIN MILLER, half poet, half fool, as some good people seem to think him to be, has a singular knack not uncommon with poets or fools of saying some very true and practical things. An instance of this is shown in a recent gossip contribution to a public journal, in which he comments upon the repairs now in progress upon the Capitol building at Washington. He says:

I feel that I have done enough for the capitol, and that more interference or advice might be misunderstood. But I must pronounce against this business—this brutal custom of scraping down our marble buildings as soon as they begin to take on the dignity and comeliness of time and color. Now, what would you think of a man who would go into the Dresden gallery and give Raphael's Madonna a scrubbing with soap and sand and ashes? Or let us suppose the Greeks or Romans had scrubbed and scraped their marbles as we do in America. How much of them would have been left for us to look upon? Let me tell you, for a fact, that if any man, or even any municipality, should attempt to scrape or scrub a building or any marble of any kind in Italy, why, the artistic and sensitive Italian would simply "make Rome howl." Why cannot people who have charge of our great structures learn a little something from those ancient states where art first took form in marble? The Greeks and Romans always let time and the elements soften the outlines of their temples, and no piece of architecture was complete that had not been rounded down and subdued in tone and color by the perfecting touch of time. But here at Washington the buildings are perpetually defaced by scaffolds; and scrape, scrape, scrape. All the year through, and nearly everywhere you lift your eyes, it is scrape, scrape, scrape, till the noise, the dust, the ghostly, glaring sight of the newly scraped, and skinned, and scratched, and mutilated columns and walls drive you out of the town. Why, even England, half civilized as she is in many things, knows much better than to lay profane hands on marble. I have been very familiar with St. George's Gate, Hyde Park, the past fifteen years. It is almost black. But it has not been touched since it was placed there. It will never be touched. Nature must take care of marble after it has found its place. And the sooner it takes tone from the elements and the softening touch of time, the sooner it becomes "a thing of beauty." For what so offends the eye as this bold and glaring and glittering white marble? I would not dwell so tediously on this theme were it not necessary. For I remember how the London Times laughed at Philadelphia for "scraping" her marble-fronted mint on Chestnut street when preparing for the centennial. But it had no effect. If the Americans read and laid the scathing article to heart it surely was not those who have charge of our buildings at the capital. And why do they persist in defacing and destroying these edifices? Ignorance. They do not know better. Of course the temptation to a job is great. The gentle Italian, the subtle Greek, each will seek to do the work, each will swear that he has scraped down Caesar's Hall on the Palatine Hill, or even the whole of Mars Hill, if need be; but he will laugh in his sleeve while he pockets the pittance which the contractor doles out to him for his labor. Yes, the cost is great. But the annual cost is not so great as the shame of it, the pity of it, the final ruin of it. Let some one of my people from the West look into this thing and stop it, and stop it at once. A man of sense can save enough money in the country in this and similar vulgar abuses here, to found and maintain a school of art; a school wherein these people along this Atlantic coast can at least be taught that marble is not to be scraped, and scraped, and scraped, even if there is a job in it. I repeat again and again, that it is only gross ignorance that for a moment can contemplate such vandalism.

Mr. Miller is right, not only from an artistic standpoint, but from the more practical one of utility. While there are stones which this process will not materially injure, it tends to make many more liable to disintegration, and where carving of any description is used it is positively brutal. We hope his remarks will be heeded, not only in regard to the Washington buildings, but in all places where marble or stone work is used.

Hints on Building.

BY J. H. CARPENTER, A. & C. E.

ARTICLE VII.—CONSTRUCTION OF WALLS.

THE general conditions of design, strength and stability of walls so far considered, though treating of much that is requisite for a good understanding of the subject, leaves so many principles and rules of practice scarcely mentioned, that it is impossible to explain them all within the scope of these chapters; and we will be content to consider briefly the principal features of construction.

True construction in architecture produces solidity which should be apparent as well as real, and convince the mind by the eye; in this lies its greatest beauty. All builders recognize this principle so far as external appearances show, and only the minority actually produces the solidity, stability and cohesion which promises so fairly on the surface. The inviolable laws of construction are always followed somewhat, but how much must be proved by time or the most rigid searching under the surfaces.

The first principle of construction is that all blocks used, whether of stone, brick or other material, should be laid horizontal and the joints be vertical.

Another principle follows that a joint should not be over another, but the blocks should over-lap the joint sufficiently to prevent them from spreading, which is called bonding.

When walls are built of solid blocks the whole thickness of the wall, these rules are sufficient, but where walls are built with two faces and the blocks represent less than the thickness of the wall, the two faces must be cross-tied with headers or binders. Walls built of square blocks of uniform size and thickness, the width being the thickness of the wall, would properly be called *square coursed work*, and is the most expensive kind of wall to build, because of the size of the blocks required and the waste which must follow the reduction of larger blocks.

Walls built of square blocks of uniform size, the width being but half the thickness of the wall, forms a wall quite as good, but still very expensive for the same reasons. Work so built is termed *header and stretcher*

coursed work, the header binding the two faces together and the stretchers lying lengthwise in the wall side by side.

Walls which are built of two thicknesses, the outer face being laid regular and of better material, perhaps, and backed up with cheaper work and material, is the most commonly used; the facings are called *ashlar* and the other the *backing*. The facings have all the appearance of being solid, but so uncertain is the construction because of unequal settlement and strength of the material, it develops another principle in construction which requires the backing to be sufficient for all weights and stability and recognizes the ashlar as a facing simply for beauty, and if this principle is followed out and the backing carefully done, the whole structure proves durable and sufficient for its purpose.

Ashlar has all the names of solid work, and if of dressed or cutstone also takes the name of the kinds of work done on the surface. This nomenclature is varied and strictly technical, but once correctly named no further explanation is needed in procuring the kind of work wanted. All stonework, as also all kinds of material is laid up in courses, regular and irregular; regular work requires sized stones; irregular work varies to suit the different sizes used in the same walls.

Alternate work is laid in regular courses, but the courses alternate in two different thicknesses of blocks.

Broken work denotes that the courses are the same, but the stones used are of different lengths.

Mixed work denotes that small stones are used occasionally to fill in spaces.

Random work denotes the mixture to be of square blocks of irregular sizes, and the courses irregular to suit the stones.

Zigzag work denotes that the joints are irregular and branching in all directions.

Reticulated work denotes square cut blocks set diamond fashion.

These two last mentioned varieties of work also requiring extra corner-stones called *quoins*, which bend the corners, and also the jambs of window and door openings; sometimes it is still further strengthened by horizontal courses of bond stones to tie it together.

Rubble work denotes a common built wall of irregular shaped stone, tied occasionally with headers, and its strength depends on the care used in bonding.

There is in use a more common wall which is built of field stone, and which requires skill for its building. The walls must be of unusual thickness, and depend on the mortar for its cohesion, but it is fortunately used only where other stone is not procurable and for a low grade of work.

The above descriptions presume the work to be accurately leveled, jointed and fitted; and no matter how good the material is, poor work will so utterly ruin it as to cause the whole to be condemned and rejected.

Buildings with walls all of stone are seldom erected in the States, as the gathered dampness in them seldom dries out and they are not considered healthy. Where stone is used the ashlar is usually backed with brick and the stone anchored in with iron straps galvanized or coated with tar, the supporting pieces dowelled with pins of copper, and the projecting courses clamped together. All stone walls thus built should either be built with linings leaving a space in the walls for ventilation, or furred off with scantling, this prevents the dampness oozing through and the unpleasant sweating of the walls.

The comparative strength of stone and brick walls is in favor of hard burned bricks, the bricks being lighter, more frequently bonded and easy of manipulation. But as brick will be separately considered in following articles, we will describe the methods of finishing the exposed faces with

CUTSTONE.

Quarry faced denotes stones jointed and bedded, with the faces left as they come from the quarry.

Pitch faced are squared stone with the face of the stone roughly broken off with a pitching tool, so that it makes a good joint around it, showing the natural grain of the stone without tool marks.

Pick faced denotes a picking off of the rough projections with a picking tool.

Hammer faced denotes the cutting away of all the rough surface with a wedge-shaped hammer.

Bush hammered denotes the cutting down with a hammer with several points, and the hammers are numbered from coarse to fine by the number of points in the head.

Point drove designates a lining across the face with a point tool, with the rough face left as broken off between the lines; this is done in horizontal, vertical or diagonal directions.

Chisel draft is the cutting of a band along the edges of the stone with a chisel, and is done as an additional finish to any of the above mentioned kinds of work; sometimes around every stone, and at others, only at the corners of walls or around openings.

Vermiculated faces are cut to represent the stone eaten into as by worms.

And besides these the more expensive carving of panels and other ornamentation according to the taste of the architect.

The *jointing* of stone is an important consideration, as all cutstone should be bedded the full depth of the stone with care and accuracy, and not pitched off toward the back to save labor, as the weight of the superstructure causes the face and corners to flake off and destroy the facings. The joints are often *channeled* in from half to one-and-a-half inches.

Besides this facing work of walls which varies *ad infinitum*, we have to consider the

STONE TRIMMINGS,

which comprises, water tables, sill courses, window sills, lintels, architraves, cappings, quoins, cornices, finials, columns, capitals, imposts, plinths, etc., cut to represent the purposes of construction, and ornamented to suit the taste of the designer.

All stone trimming, which project from the face of the walls, should have the top edge beveled to form a *wash*, which prevents water gathering upon them and with *drips* formed by thwartings on the underside that the water will fall to the ground carrying the dust, etc., with it and not streak the wall facings. Sills should be cut with *lugs*, that is level beds for all the piers, jambs, etc., to start from to save the unsightly wedges used by masons to level up with. *Sills* are the stones used at the bottom of window openings.

Lintels are the caps over openings. Sills when being set should never be under pinned with mortar until after the building has settled, to prevent their breaking; and lintels should have discharging arches behind them to relieve them from unusual strains during settlement. The projection of the ends of sills and lintels into the walls should be at least half their height.

All other proportions are determined by the customs and rules of the styles used, while all changes and deviations from the rule must be determined by the educated eye of the designer.

(To be continued.)

Suggestions for a National Monument.

BY IRVING K. POND.

DURING the past few weeks a great many suggestions have been offered as to memorial structures, and many designs have been submitted to the public. This activity of pen and pencil has been due to a desire on the part of artists and others that a fitting monument should be raised to the nation's great son, so recently deceased. While it is laudable and desirable that any and every city should honor its dead by monuments, it seems to me eminently desirable that the nation should raise hand and voice in the honoring of all her great sons.

To do this grandly and impressively, thought and work should be concentrated on the construction and embellishment of one noble pile, which should outlive the nation that built it, and even outlive the language in which the praises are sung. The ideal monument should have the solidity of the pyramids, the architectural grandeur of Peter's dome, the richness of detail of the French Romanesque, the exquisite finish of the Parian Certosa, the poetry and color of the Venetian San Marco. These are elements of the ideal structure. A full realization of the ideas is not possible in this country in its present undeveloped state, though a structure may be reared which will serve to educate the people and pave the way to greater possibilities. This the nation owes not only to her great dead, but to her living of all classes and conditions. So the suggestion of a monumental building, adequate to the requirements of the present and many generations to come, presents itself. Galleries for sculptured and painted portraits of our greatest statesmen, warriors, poets, artists, philosophers, should be so disposed as to make the effect monumental, and in nowise commonplace. Niches, statues and reliefs should adorn the walls outside and in, and above, the nation should extend her encircling and protecting arms. Broad steps should lead to the summit, where the principal work of art in sculpture should be placed, and thither the people should climb and study and reflect upon the lives of the men who made the nation's existence possible, and who kept her abreast with, or, perhaps, in advance of other great peoples. The crypt should contain the bodies of these men. This would form a strong bond between different portions of our broad land. There is a growing tendency toward crystallization of sentiment around widely separated points, which may lead to a disintegration of our united republic. It will not be so easy a matter for West or East, for North or South, to break away when all the nation's honored sons sleep at the nation's capital.

To detail the features of the monument suggested in the sketch is unnecessary, though one or two lines in explanation may not be amiss. There are broad, open vestibules, two in the front and one in the rear. Near the front are smaller rooms for offices, for small collections, for

toilet and other necessary apartments, while above the vestibules are balconies. The central portion, directly below the concourse, is designed to be occupied by statues, and receives its light from the ceiling and from stained glass windows above the galleries of paintings. The floor of the gallery of portraits on canvas is somewhat lower than the main floor, to afford greater hanging space, and clear light is received from above. The interior is arranged so that the whole may be taken in at a sweeping glance on entering. Indeed, this idea influenced the exterior design. The whole design may be comprehended from a distance, but it is only as one climbs that details open up before him, and not until he reaches the top step does the most important and finely detailed portion of the work meet his eye.

As to the statues to fill the various niches, little may be said now. Washington would, by common consent, stand under the central canopy of the concourse; Lincoln might well stand on the right; time would fill the space on the left. Allegorical figures or groups could occupy the tops of the towers. On the central, America, in a chariot drawn by the horses of the sun; on the right, misery, strife, ignorance, fleeing into night; on the left, happiness, liberty, peace, rising into day. These are mere suggestions, but if they serve to bring the matter before thinking men their purpose is accomplished.

Weeding Out Dishonest Plumbers or Architects.*

UNDER the title "A Few Words to Skillful and Honest Plumbers," in a late number of the *Metal Worker*, its editor addresses a timely admonition to those local associations of plumbers which in a blind eagerness to increase their membership, neglect to scrutinize properly the quality of the new recruits, and forget that in opening wide their doors and admitting to fellowship all who come, they degrade themselves in the eyes of the world, if not, in fact, to the level of the riff-raff and scallawags whom they thus acknowledge as brethren. Nothing can be truer or more pertinent than the remarks made as to the folly of such a policy, and a man must be obtuse who fails to be convinced.

But the subject is left very much where the mice in the fable closed their debate when they agreed that the cat's neck must be adorned with a bell. If a little more could be added as to the *modus operandi*, showing somewhat in detail just how an association of plumbers, or of anything else in its initiatory stages, is to exercise the discrimination advised, so that none but competent and creditable members shall be admitted, and the shiftless, the scallawag, and the trickster shall be shut out, and kept out, it would serve an excellent purpose. The difficulty lies not so much in persuading men that they ought to discriminate as in the practical details of carrying out such a policy, and it is encountered by architects equally with plumbers. The embarrassing question is, where to draw the line and how to maintain it with any fairness, consistency and due regard for harmony in the association.

If Mr. Smith, of Jonesville, is about to build a house for himself he may invite such parties as he chooses to bid on his work, and no one may call him to account or require a reason why he selects one and excludes another. He may have good reasons for his choice, or bad reasons, or no reasons; he may be prejudiced, misinformed, deceived, partial or otherwise at fault; it is all his own affair. But when Smith proceeds to organize the Jonesville association of master plumbers, or carpenters, or anything else, the situation is extremely different, unless he takes the position of autocrat of the association and the others yield it, in which case the association's prospects will not be flattering.

If Smith is particularly cautious at the start to admit no member whose tastes and preferences as to fellowship differ from his own, the proportion of outsiders is likely to be so great and of insiders so very small that his association will disappear in its select insignificance. If, in a more liberal spirit, he seeks to organize a fairly representative body, he must be less select and less rigid in his discrimination. He must admit many who are not quite congenial, some whom he mistrusts or dislikes, and not a few whose company he avoids elsewhere. Moreover, the larger the body the more variety of view as to the admission of new members, and the more the difficulty of establishing a fair line of discrimination and of maintaining it with due regard to justice, consistency, harmony and many other considerations.

The medical and legal professions differ in this essential regard, that there is a preliminary course of study and training, which the law recognizes as a necessary preparation for all who wish to enter them. Therefore the line is drawn and maintained by admitting no one without a diploma. It is complained, sometimes with justice, that this rule occasionally excludes persons of experience and practical skill, who for lack of early advantages have missed the required diploma, while admitting a swarm of callow youth, who often in very dubious ways have run through

the curriculum and ostensibly graduated, while they are utterly unfit to plead or practice. Moreover, both legal and medical associations are often disgraced by members who are mistrusted and despised by the better element, but whom it has been impossible to exclude or weed out.

Plumbers might agree, perhaps, to admit no member who had not served an apprenticeship, and to this extent follow the example set by the lawyers and doctors; but while this might shut out the fools, so to speak, it would be no barrier to the rogues, and evidently these are chiefly had in view by the editor who remarks: "It is not what a man knows so much as what he does, which is important. The plumbers who can skin a contract closest are not by any means those who know least, but those who are skilled in the expedients of dishonesty." The members whose exclusion is most important are those whom decent men in the same calling know to be tricky and treacherous, and whom, therefore, they heartily despise.

Such men are as smart, as ingenious, as successful in working their way into reputable organizations as in other directions. They are found in churches and in Masonic and similar associations, where more or less elaborate and secret barriers are provided for their exclusion; they are in boards of trade, in charitable societies, and wherever else they aspire to enter. A plumber convicted of a flagrant violation of the building laws would be excluded if a candidate, or expelled, doubtless, if a member; but there would be much chance for dispute as to the degree of flagrancy or the criminality of the member therefor, which would occasion differences of opinion; parties would be apt to form, some taking the side of the accused or favoring leniency toward him, and a long line of consequences so serious that such action would be very reluctantly taken. One principal reason for the laxity of discipline in some churches is the dread which their most prudent members have of the incidental followings of a church trial, however justly and prudently conducted by the prosecutors.

None know so well as architects the incompetency, ignorance, bold impudence and sly dishonesty of some who call themselves architects and successfully deceive their customers and the general public; but architects are in no position to expose these frauds. They find it more profitable and far more agreeable to attend to their own affairs. Any attempt at unclanking these asses in lions' skins would almost certainly be ascribed to jealousy and produce a public feeling of sympathy for the accused as a victim of persecution, particularly where, as is very likely, the culprit is a tricky rogue who knows how to turn every circumstance to his own profit. Architects have slightly the advantage over plumbers in the fact that their local associations are comparatively small, and so there are fewer minds to differ; but the difficulty is a serious one with them notwithstanding.

So far as known, the discrimination advised has proved to be so environed with difficulties in all popular bodies where every one has a voice and a vote, that every attempt to set up any but the simplest barrier to membership, and especially all attempts to shut out the crafty skin operators who artfully keep just within the pale of criminal laws, has failed at the outset and all the time. How far it may be advisable to continue the effort in the hope of yet devising some means of its accomplishment is a question on which opinions differ. Every capable and honest man, whatever his occupation, will admit its urgent necessity and will share the wish that something effectual might be done. Will the *Metal Worker* come to the rescue and point out the way practically and sufficiently in detail? Will any one else undertake the problem?

The "Bobtail" Street Car Nuisance.

BOBTAIL cars have been an unmitigated nuisance to the public for years, and still it is surprising how many cities there are, both in the United States and Canada, that are subject to these uncomfortable, unaccommodating and positively dangerous conveyances. Though they existed until ten years ago in Chicago, when the people ordered their abolition, they still are found in such metropolitan cities as Minneapolis, St. Paul and St. Louis, in the two former cities the conductor being unknown. In Toronto, Canada, they are rapidly disappearing, the public understanding that they are not bound by any law to place their fare in the box or give it to the driver, and have refused on most lines to be jostled about while endeavoring to reach the front of the car or trouble their neighbors by asking them to pass it up. In Hamilton, Canada, where, perhaps the most slipshod and utterly disreputable excuse for a street car line known exists, accidents are so frequent and the rights of the public so generally disregarded that the cars are used only where absolute necessity compels. In other cities the public are likewise compelled to endure all these inconveniences. After giving a valuable franchise to a company courteous treatment from them is due, and a reasonable care for the comfort and safety of passengers, but these bobtail nuisances will exist until the people demand a change, and, as in Chicago, the bobtail will be abolished. As the case now stands the street cars seem to be run on the "make" plan with no regard for the public side of the question, each officer being a Vanderbilt in miniature, and carrying out the "public be damned" principle attributed to that gentleman. The only way to counteract this is for every passenger to positively refuse to pay fare to any one but a properly authorized conductor. A valuable adjunct would be a citizens protective association that would keep a close watch upon the operations of these companies and provide a fund for their prompt prosecution in the interest of every person injured by their criminally careless method of running their cars.

NOTE.—This article was prepared for an earlier issue but was unavoidably crowded out. It is especially pertinent at this time, and in view of the architectural conventions to be held this month and next.

About Ben Adhem's Dream.

ABOU BEN ADHEM, architect, had been to his state convention and heard many interesting, if not pleasing remarks, particularly about the ways in which a class of architects; "the gang," as some call them, solicit employment. On his return he was mentally ruminating in a vain effort to digest these things comfortably when Morpheus, who had rather the worst of it during the convention, successfully suppressed them, and dozing he dreamed as follows: (Abou Ben Adhem always dreams in the first person singular.)

I fell sick on my way and reached my home scarcely able to walk. On turning to shut the door I encountered Dr. A., who had seen that I was in need of a physician, and came to offer his services. He said he had cured a half dozen cases of the same kind, had as many more on hand and the promise of others, and was getting the largest practice in the city in this line, as the customers of the other doctors were all coming to him. He offered to do everything for thirty per cent less than anyone else, if I would put my case in his hands.

After him came Dr. B., who brought some of his most admired prescriptions. He hoped I would look them over and perhaps make a selection, and should I want changes or additions, he would put them in and would get bids from various parties to supply the drugs at reduced rates, all without charge if I did not use them. He only wanted something to keep his office force employed. Moreover, he would guarantee the quality of the drugs and their operation, and would do it all complete for fifty per cent less than the physicians' schedule, and no extras.

Then came a letter from Dr. C., who was intimately familiar with allopathy, homeopathy, hydropathy, electropathy, heliopathy, astropathy and every other system that had ever been known or tried. He could, therefore, give me just what I wanted and in any style I might select. His ancestry to a remote period had been doctors, they had been employed by various royal personages, he considered himself a born physician, divinely qualified to practice the healing art, he would do my work as cheaply as anyone, and should any of the rest of my family need a little attention he would throw it in gratis. Another letter now appeared from Dr. D., who was confident I would select him, since he belonged to the same lodge with me, attended the same church, came originally from my native state, and now bought from the same grocer and dealt with the same milkman. Out of friendship and for "auld acquaintance," he would charge me but one-third of the regular price, and add a liberal donation to my Sunday school.

Wondering whether I or the doctors had become lunatic, I entered my parlor only to find Mr. E., pharmacist, already seated and awaiting my leisure. He said he was no mere writer of prescriptions, which were generally full of mistakes; he was a practical man, dealing in drugs and medicines all his life. He had served his time at the business, and considered that he knew more than any dozen college-bred doctors who would sit in their offices and write directions. Not one of them could put up a good cathartic pill if he were to try. Mr. E. knew about medicine practically; he cared nothing for prescriptions; he would take hold of my case and cure me for just what it cost, and would furnish all the prescriptions for nothing. There was no sense in paying doctors' fees; select a good, practical druggist and save the money. Doctors were a superfluity every time.

Meanwhile other doctors kept coming till the room was full. Amazed at their degrading importunities and their lack of self-respect, I began expressing my opinion of their disgraceful conduct as professional gentlemen, assured them that their undignified behavior repelled employers instead of attracting them; that doctors would get more business and better compensation, and enjoy more of the public confidence and esteem if their department were more dignified; that what I wanted was not a cheap doctor, but a skillful and trustworthy adviser; that for such service the regular fees were none too much, while anything less would be dear at any price; that I would sooner pay a reliable physician twice or three times the schedule fee than risk my health and life in any of their hands if they would treat me for nothing. With that I began driving them all from my house, when my efforts awoke me and I found it was a dream.

The doctors still preserved their self-respect, allowed their services to be called for when wanted, had abundant patronage, collected without difficulty their long established fees, and enjoyed the undiminished confidence and esteem of the community. But, he reflected, had he been proposing to build a house, and dreamed that architects assailed him with importunities and sought his favor by offers to reduce their commissions, and to furnish extra services gratis, his dream would have been the mirror of truth. Begging pardon, therefore, of the medical profession for harboring so unworthy an opinion of them, even in a dream, Abou Ben Adhem resumed his rumination upon the discussions at the architects' convention, but with the same inward discomfort as before.

The Application of Art to Ornament.

FOR the last six years the Chicago Art Institute has maintained a school of drawing and painting, which has become large and well known. Hitherto it has been confined to academic art, that is, to studies chiefly of the human figure and still-life objects, which fit the student to make pictures or to teach picture-making. From the beginning a department of decorative designing has been contemplated, but in former years it has not been possible to establish it under favorable conditions. It is a satisfaction, therefore, to notice the announcement of a class in the application of art to ornament, meeting evenings under the very competent instruction of Mr. Louis J. Millet. Mr. Millet is a member of the firm of Healy & Millet, widely engaged in house decoration, and is well known as an accomplished designer. He studied no less than six years in the School of Decorative Arts and School of Fine Arts of Paris, France, and is now constantly and solely engaged in designing and applying decoration. When we consider the amount of building and manufacturing done in Chicago it is extraordinary that there has been no school in which a young man or woman could learn the principles and practice of designing. Ornament is applied to the widest range of subjects, from the facade of a

building to the corner of a business card. Furniture, jewelry, wall paper, carpets, stoves, labels, head and tail pieces, stained glass, embroidery, almost all articles offered for sale, are commended by decoration, and yet there has been no place in which an architectural draughtsman, an artificer, or an engraver could learn intelligently to compose patterns to be executed in stone, iron, glass or printers' ink. This deficiency is now happily met by the class already in progress on Monday, Wednesday and Thursday evenings under Mr. Millet, the tuition fee of which is trifling. It is to be hoped that the school will be well maintained from the beginning.

Association Notes.

MEETINGS.

AMERICAN INSTITUTE OF ARCHITECTS.—Annual convention will be held in Nashville, Tenn., October 21, 1885.

WESTERN ASSOCIATION OF ARCHITECTS.—Convention will be held November 18, 1885, at St. Louis, Mo. Regular meeting of directors at Chicago, April 17, at 4 P.M.; August 7, at 4 P.M., and at the Southern Hotel, St. Louis, Mo., November 16 and 17, at 2 P.M.

ILLINOIS STATE ASSOCIATION OF ARCHITECTS meets the first Saturday of every month, at 15 East Washington street, Chicago.

MISSOURI STATE ASSOCIATION OF ARCHITECTS meets at Kansas City on the second Tuesday in January, 1886.

KANSAS CITY SOCIETY OF ARCHITECTS meets Saturday afternoon of each week. Annual meeting second Saturday in April, 1886.

THE ARCHITECTURAL ASSOCIATION OF IOWA meets second Wednesday of January, 1886.

THE ARCHITECTURAL ASSOCIATION OF MINNESOTA meets every other Tuesday at Minneapolis and St. Paul alternately.

THE ARCHITECTURAL SKETCH CLUB, of Chicago, meets every alternate Monday; temporary quarters, Builders & Traders' Exchange.

THE WESTERN SOCIETY OF ENGINEERS meets the first and third Tuesdays of each month at 4 o'clock P.M., at 15 East Washington street, Chicago.

THE MASTER PLUMBERS' SOCIETY, of Chicago, meets first and third Wednesdays of the month, 7:30 P.M., at 15 East Washington street.

ILLINOIS STATE ASSOCIATION OF ARCHITECTS.

The annual meeting of the association was held Saturday, October 3, the principal business transacted being the election of officers. In the absence of the president, W. W. Boyington, the meeting was called to order by the first vice-president, D. Adler, twenty-two members responding to the roll-call. The minutes of the August meeting having been read and approved, the report of Treasurer L. D. Cleveland was received, which showed a receipt during the year of \$1,022.60, and an expenditure of \$402 11, leaving a balance in the treasury of \$619.89. An auditing committee was appointed by the chair to consider the report.

The following report of the Executive Committee was read:

REPORT OF THE EXECUTIVE COMMITTEE ILLINOIS STATE ASSOCIATION OF ARCHITECTS—ANNUAL MEETING, OCTOBER 3, 1885.

GENTLEMEN,—Your Executive Committee has the honor to report as follows:

The committee has held meetings at intervals of about two weeks, in which various matters relating to the welfare of the association have been discussed and acted upon.

In answer to a call issued at our first meeting, January 29, Article I. of your By-Laws was amended by you, changing the dues and initiation from \$10 initiation and \$25 dues to \$10 initiation, and for members living in Cook county \$25 dues, with \$5 dues for other members.

In obedience to suggestions received from you, this committee issued invitations to a large number of gentlemen prominently known as capitalists, to meet the association at its meeting of June 27. These gentlemen were informed that we wished to receive from them friendly criticism on our methods of conducting business as architects, and generally to confer with us upon points affecting the relation of clients and architects. Two gentlemen responded in writing; one gentleman came.

A circular was also issued by us to the Builders and Traders' Exchange, inviting them to appoint ten representatives to meet this association at the August meeting, and confer with you upon the relationship existing between contractors and architects. A number of contractors responded, and their presence at the August meeting made that one of the most interesting of our assemblies.

The later meetings of this committee have been devoted principally to auditing accounts, and to the transaction of business of an unimportant character, the full details of which are set forth in the minutes of the secretary, Mr. Sullivan.

The question of permanent quarters for the association has been frequently discussed, and no final arrangement has been made for the following reason:

It has been impossible to obtain rooms of proper size, character and location which would come within the limits of our purse. We thought it desirable that the permanent rooms should not only in every sense be adequate for all our requirements; but that they should, perhaps, be used in common by yourselves, the Engineers' Association and the Association of Draughtsmen, by which arrangement the rooms would become centers of greater interest. Mr. Gay has for some time been negotiating for an entire building in which he would place his permanent exhibit, which we have indorsed, and where he would furnish you with ideally adequate rooms at a comparatively nominal rental. Meanwhile the present temporary quarters seem suitable, and the amount of rent paid for them has been very low.

The Executive Committee have to report that no new applications for membership have been received by them.

In retiring from office we desire to call your attention to a few matters which seem to us worthy of your consideration.

1. We suggest that the number of the Executive Committee be reduced from eight to five, and that three members constitute a quorum. This, we think, will tend to make the committee more efficient.

2. Would it not be wise to determine that if any member of the Executive Committee is absent from four of its consecutive meetings, the other members shall have power to declare his place vacant, and proceed to elect his successor.

3. It is considered desirable by us to reduce the number of members necessary to constitute a quorum of this association from twenty to twelve.

4. We suggest that you reconsider Article I. of your By-Laws, fixing Saturday as the day of meeting. Many members have stated to us that this day is almost universally inconvenient. Thursday is thought a better day by the Executive Committee.

5. It is within your province to take steps tending to increase the interest of your monthly meetings, such as providing for the reading at each meeting of technical papers by the members. In this connection we would state that with the exception of the first, all the lunches served at your meetings have been paid for by private subscription, and that they were abandoned only when it became evident that the tax upon a number of the original guarantors has become too great. It may be well for you to consider the advisability of continuing these lunches, which, in our opinion, have been demonstrated to be sources of most effective interest.

6. The Association of Draughtsmen has never received from you any official recognition. This should be extended to them by you. We suggest that you discuss the formation of some sort of relationship between their association and yours, and that you offer prizes to be competed for by the draughtsmen, determining at the same time the conditions and the details of these competitions.

7. We suggest that Article VII. of By-Laws be amended enabling officers to hold over more than one year. Agreed to.

The committee desires to express its warmest interest in the growth and welfare of

the association. They foresee for it the most eminent usefulness, that it shall become the source from which shall spring the rejuvenated profession of the near future.

We trust that each member will renew the pledges of his fidelity, sinking all personal interest in the general welfare, and that each member shall have it his pride to say that his was an active contribution to its final and brilliant attainments.

To such a consummation we, as your late Executive Committee, will lend our best endeavors.

JOHN W. ROOT, Chairman.

These recommendations were referred to the new Executive Committee and the proper notices were sent to the members stating that they would come before the Association at the next regular meeting for final action.

The following letter from President W. W. Boyington, was read by the secretary:

CHICAGO, September 28, 1885.

Henry Lord Gay, Esq., Secretary Illinois State Association of Architects:

DEAR SIR,—Your notice of the annual meeting of our association is before me. I may not be able to be present. I have to be at Springfield on the 1st of October, and may be detained through the week. Should I not get back in time to be present at the meeting, I wish to say for the information of the members of the association, that under no consideration will I be a candidate for reelection as president, or for any other official position. I think there are a plenty of younger members who would honor the position. I thank the members for the respect they have shown me in the past, and hope them success in the future administration of affairs. Yours respectfully,

W. W. BOYINGTON.

The following extract from a letter to the secretary from C. E. Illsley, president of the Western Association, was also read in regard to papers to be read before the Convention at St. Louis next month. The recommendation of Mr. Illsley was referred to the Executive committee for action.

* * * It would be advisable for the Chicago architects to assign among themselves ten or a dozen essays so as to insure a fair number of papers being prepared by those especially competent, and some correspondence may be necessary with architects out of the state who are known to be especially qualified in some directions, to prepare and present a paper on their specialty. The papers being limited to ten minutes, there will be time enough for a good many, and it is very important for the public effect of our convention that the papers be all of high character.

Motions having been passed directing that but four executive officers be elected at this meeting, the remainder to be chosen at a subsequent meeting unless otherwise ordered, and the appointing of two nominating committees to select two tickets, the members proceeded to ballot for the election of officers for the ensuing year.

The Committee upon Nominations submitted names as follows: For president, D. H. Burnham and D. Adler; for first vice-president, S. M. Randolph and H. L. Gay; for second vice-president, H. I. Cobb and W. W. Clay; for secretary, L. H. Sullivan and I. L. Silsbee; for treasurer, S. M. Randolph and Wm. Holabird; for executive committee, F. Bauman, W. W. Clay, C. L. Stiles, L. D. Cleveland, G. Viegeant, N. S. Patton, J. H. Huber, and L. G. Quackenbush.

Each officer was elected by the first ballot. When the candidates for president were announced, Mr. Adler in a few well chosen words declined the nomination, saying that Mr. Burnham was especially qualified to fill the office, and moved that the secretary be instructed to cast the ballot for Mr. Burnham. This was overruled, and on ballot Mr. Burnham received 11 votes, Mr. Adler 8. Mr. D. H. Burnham was declared elected.

For first vice-president H. L. Gay received 12 votes, Mr. S. M. Randolph 7. Mr. Gay was declared elected.

For second vice-president Mr. W. W. Clay received 12 votes, Mr. H. I. Cobb 6. Mr. Clay was declared elected.

For secretary Louis H. Sullivan received 13 votes, J. L. Silsbee 5. Mr. Sullivan was declared elected.

For treasurer Mr. S. M. Randolph received 14 votes, Mr. Wm. Holabird 5. Mr. Randolph was declared elected.

For executive committee those four receiving the highest number of votes were: D. Adler, 16; N. S. Patton, 14; F. Bauman, 11; C. L. Stiles, 8; and were declared elected. At a meeting of the new executive Committee subsequent to adjournment C. L. Stiles was made secretary of the committee, D. H. Burnham being ex-officio chairman. The meeting adjourned, the next regular meeting to take place Saturday, November 7.

THE ARCHITECTURAL ASSOCIATION OF MINNESOTA

held its thirty-fifth regular monthly meeting at the rooms of the Northwestern Permanent Exhibit in Minneapolis on Tuesday, October 6, 1885. President Hodgson called the meeting to order at 4:30 P.M.

The following gentlemen answered to roll-call: Fellows Goodwin, Hayes, Isaac Hodgson, Millard, Plant, Struck, Wilson, Treherne, Ife, Ulrici, Joralemon and Kelley, and Honorary Members Baldwin and Farnham. Mr. Leroy S. Buffington, of Minneapolis, was present as guest of the Association. The minutes of the last regular meeting were read and approved.

The secretary reported that in accordance with the resolution passed at the last meeting he had forwarded to the leading architectural journals, to the local papers, to all members of the Association and to the leading architects of the state (not members), a copy of the resolution changing the system of measurement from feet and inches to feet and tenths, which was adopted at the previous meeting. He further reported that blank applications for membership in the Western Association of Architects had been prepared in accordance with the form adopted last January. He only wanted the names of those desirous of joining the Western Association. He further reported that he had sent to all the architects in the state a personal invitation to join this Association. In conclusion, he called the attention of the members to the fact that an exhibition of architectural drawings would be held in New York at the eighth annual exhibition of the Salmagundi Club from January 11 to February 1.

The Committee on Membership reported favorably upon the name of Mr. Chas. A. Wallingford, of St. Paul, candidate for admission as fellow.

As members of the committee appointed to determine the meaning of the term "sketches," and to formulate a scheme of professional conduct and charges in the matter of competitions and the like, Messrs. Goodwin and Joralemon reported no action taken. Considerable discussion followed upon the advisability of keeping the committee in commission and of taking any action at all in the matter until the Western Association of Architects had acted upon the matter. Upon motion of Mr. Goodwin the committee was discharged, and upon motion of Mr. Joralemon another, composed of Messrs. Wilson (chairman), Hayes, Kelley, Plant and Treherne was appointed to report at the next meeting.

Mr. Treherne proposed the names of Mr. James S. Kenny, of St. Paul, as fellow, and Mr. Chas. A. Forbes, of St. Paul, as associate. Mr. Ife proposed the name of Mr. James R. Torrance, of St. Paul, as associate. The names were referred to the Committee on Membership.

Mr. Treherne moved that the rules be suspended and the presiding officers of the American Institute of Architects, the Western Association of Architects, and the different state associations be elected honorary members of this association. Carried.

The gentlemen were declared duly elected.

The secretary read the following communication:

MINNEAPOLIS, MINN.

To J. Hodgson, President Architectural Association of Minnesota:

MY DEAR SIR,—It is with much regret that I leave your city today before the meeting of your association, at which I had sincerely hoped to be present. During my brief stay in Minneapolis and St. Paul I have met with a hearty reception from all the architects, and bespeak for them a pleasant one when it will be my good fortune to meet them in your city. It was my desire to meet with the Association that I might say a few words in regard to the coming convention of the Western Association of Architects at St. Louis, and of the live interest manifested by those whom I have recently met in other cities. I have seen a large number of architects in the past few weeks, and the general feeling is that the meeting at St. Louis will bring together the largest body of the profession ever brought into convention in the United States, and that it will be the most important and eventful meeting of the kind ever held. The result of your meeting is looked to with great interest by all, as your association is the oldest of the Western organizations, and it is hoped that you will have a full attendance, and that the interest will be such that not only your body, but all of the profession in your city and St. Paul will feel the importance of attending the St. Louis convention and giving all assistance in promoting the interests of the profession.

With my best wishes for the success of your meeting, and again thanking you all for the kindly reception given me, I am,

Yours fraternally,

(Signed)

FRED. S. HUNT,

News Editor THE INLAND ARCHITECT AND BUILDER, Chicago.

The letter was received and placed on file.

The secretary then read the following communication from the president of the Western Association of Architects:

ST. LOUIS, September 21, 1885.

Mr. J. Hodgson, Architect, President Minn., S. A. A.:

MY DEAR SIR,—Your preliminary reply to my last letter was duly received. I have now a note from Mr. Gay of Chicago, that up to date the responses from Minnesota are two.

I presume this is in advance of the resumption of active meetings by your association; but having in mind the early history of the American Institute of Architects, I am very desirous to avoid the mistakes in their starting, which have ever since worked so prejudicially to the welfare of the association. A principal error on the part of its promoters was the belief that architects generally would be prompt to cooperate with them when the opportunity offered, and without solicitation. The architects were too busy or indifferent, or both, to inform themselves accurately as to the association and, while in a general way they approved of it, they assumed that it would run itself well enough without their help, and so they made no special effort to attend.

We should have an attendance of 300 to 400 architects at this convention. With such a number we can accomplish thoroughly, in a very few years, more for the advancement of architecture in this country than the A. I. A. has been able (for want of such cooperation) to do in twenty-seven years, or will do in twenty-seven years more, if eastern architects do not develop more *esprit de corps*.

You may assure your architects that this will certainly be the grandest architectural convention this country has ever seen in any event. We are already assured of over 200 delegates. But as I say it should be 400 (allowing liberally for more than one half our western architects to stay home). Our St. Louis architects have set themselves to getting up the best programme that was ever known here. They would be glad to welcome every one of the nine hundred to whom invitations have been sent. You know yourself how enthusiasm swells with numbers, and likewise how the impression produced on the public mind is increased in geometric ratio by a full representation.

We have the names of over seventy-five architects in Minneapolis and St. Paul alone—over a hundred in the state. We ought certainly to have a delegation of fifty to sixty, without fail, from your state. Our local committee on railroad transportation is arranging for reduced rates. They will be mortified to go before the railroad officials and ask reduced fare for two architects from Minnesota. Therefore, in their name, and in the common interest as well, I write to inform you of the situation so that you may lay the facts before your association, make a vigorous canvass, and send us at once, without delay, the names of a large delegation from your state—certainly not less than fifty gentlemen, besides ladies, and our committee in turn, will work for rates with a good prospect of success. Your architects only need to have their enthusiasm aroused, no doubt, and you will know well enough how to do this. Get the names of all who will come, if possible. Should unforeseen obstacles arise, their promise will not be considered binding.

If your Mr. Sedgwick is from Binghamton, New York, please give my regards, as I have met him there. Very truly yours,

(Signed)

C. E. ILLSLEY.

The communication was received and placed on file.

Having called Vice-President Millard to the chair, Mr. Hodgson took the floor and made some very vigorous and timely remarks regarding the St. Louis convention, calling upon all members of the Association to attend without fail. At the close of his remarks he moved,

That a committee of four (two from each city) be appointed to visit every member of the Association and the profession in their respective cities, and secure the names of all those who will go to St. Louis next November.

Carried.

The Chair nominated Messrs. Hodgson and Goodwin as the Minneapolis committee, and Messrs. Stevens and Ife as the St. Paul committee.

Mr. Treherne asked each gentleman present whether he intended attending the convention or not, and whether he was desirous of becoming a member of the Western Association of Architects. In response to the inquiry, he learned that eleven of the fifteen present were going to St. Louis, and that three of those not going wished to become members of the Western Association of Architects.

In the election of candidates which followed, Mr. Chas. A. Wallingford, F. A. I. A., of St. Paul, received twelve affirmative and no negative votes, and was declared duly elected a fellow.

Mr. Treherne moved a vote of thanks to Mr. W. H. Farnham for the courtesies extended to the Association in preparing accommodation for this meeting in the rooms of the Northwestern Permanent Exhibit. Carried.

The secretary then read the report of the committee of the A. I. A. on the proposed bill establishing a bureau of architecture.

The meeting then adjourned.

CHICAGO ARCHITECTURAL SKETCH CLUB.

At the meetings September 28 and October 12, the evenings were spent by the members sketching designs for residence fronts, the sketches were uniformly creditable and showed considerable talent as well as marked progress among the club members. It is the intention of the club to continue this course through the coming winter sessions, taking the different exterior and interior details of design and construction. The membership is increasing rapidly, and the outlook is exceedingly flattering for a prosperous and interesting future, the benefits already acquired being definitely marked.

Correspondence.

ARCHITECTURAL ASSOCIATION OF MINNESOTA, SECRETARY'S OFFICE,
ST. PAUL, Minn., Sept. 12, 1885.

Editor *Inland Architect and Builder*:

At the regular monthly meeting of the Architectural Association of Minnesota, held on September 8, 1885, the following resolutions were passed unanimously:

Be it resolved, That on and after the first day of January, A. D. 1886, the members of the Architectural Association of Minnesota abandon the system of measurement by feet and inches, and adopt a system of measurement by feet and decimal parts of a foot.

Be it resolved, That the secretary notify all the leading architectural journals of the United States and the local papers of this action of the Architectural Association of Minnesota.

I am, sir, yours fraternally,
H. SACKVILLE TREHERNE, Secretary.

NEW YORK, October 9, 1885.

Editors *Inland Architect and Builder*:

DEAR SIRS,—I inclose you a printed invitation concerning an exhibition of architectural drawings organized through the efforts of *Building*. You will notice that a committee has been established at Chicago, and I hope your well deserved influence will be used to secure for us some high class drawings. Yours, etc., F. A. WRIGHT, Secretary.

NEW YORK, October 1, 1885.

To....., *Architect*.....

During the month of January next, an Exhibition of Architectural Drawings will be held in New York, in connection with the Eighth Annual Exhibition of the Salmagundi Club. It will open on the 11th of January, and close on the 1st of February.

The undersigned have been designated as a committee to make all the necessary arrangements and to select from the drawings that may be offered such as they may find it practicable to exhibit.

You are invited to contribute to this Exhibition. Drawings will be received at the American Art Galleries, No. 6 East 23d street, from Thursday, the 31st of December, to Saturday, the 2d of January, inclusive. They must be sent at the expense and at the risk of the contributors. They must either be in frames or mounted on stretchers with proper borders or mats. All those from out of town to be sent at any time before the 31st of December to Louis R. Menger, 35 Dey Street, who, for a nominal charge, will see that they are forwarded to the galleries in due season. He will also provide frames and stretchers for drawings sent to him unmounted at a reasonable price, and will return the drawings to the owners, mounted or unmounted, as may be desired.

The gentlemen whose names are given below have consented to act as sub-committees in Boston, Chicago and Philadelphia, and are authorized to designate from the drawings offered for their inspection such as it may seem most desirable to send on. It is hoped that this will save contributors needless expense and trouble.

Contributors in the above-named places will please notify the local committee by the 1st of December.

All contributors will please fill out the inclosed blank and forward to F. A. Wright, 149 Broadway, New York, as soon as practicable.

All drawings should be plainly marked on the back with the name and address of the owner, and the title of the drawing. If for sale, the price should be stated.

H. O. AVERY,	WM. B. TUTTILL,
C. L. W. EDLITZ,	PROF. WM. R. WARE,
RICHARD M. HUNT,	F. C. WITHERS,
R. H. ROBERTSON,	F. A. WRIGHT, Sec.,
	149 Broadway, N. Y. C.

SUB-COMMITTEES.

<i>Boston.</i>	<i>Chicago.</i>	<i>Philadelphia.</i>
E. C. CABOT.	D. H. BURNHAM.	J. H. WINDRIM,
E. M. WHEELRIGHT,	JOHN W. ROOT,	T. P. CHANDLER, Jr.,
6 Beacon street.	115 Dearborn St.	302 Walnut St.
C. A. CUMMINGS.	HENRY I. COBB.	BENJ. LINFOOT.

This exhibition, of which editorial mention was made some months ago, is not only entirely worthy of the consideration of our best architects, but should receive prompt and general attention. The enterprise of *Building* in promoting such an exhibit is most commendable, and the architects of the West owe it to themselves and the profession that a creditable exhibit of their work be made, as it is the first time such a showing has been attempted on the present scale in the East. [EDITORS INLAND ARCHITECT AND BUILDER.]

New Publications.

Any book noticed in these columns will be sent post paid on receipt of price, by the Inland Publishing Co., 10 Tribune Building, Chicago.

PLUMBING PROBLEMS: Or Questions, Answers, and Descriptions relating to House Drainage and Plumbing, from *The Sanitary Engineer*; with One Hundred and Forty-six Illustrations. New York: *The Sanitary Engineer*, 1885.

One of the wonders of our age is the unprecedented development of American sanitary plumbing, which, occurring within scarcely half a dozen years has, we believe, placed this country quite in advance of all others. This must be ascribed largely to the opportune appearance of Mr. J. C. Bayles' admirable and popular book on "House Drainage and Water Service," and to the almost simultaneous establishment of the *Sanitary Engineer*, originally the *American Plumber and Sanitary Engineer*, a journal which, from the start, has shown marked enterprise and ability, and has achieved corresponding success. It is now issued regularly in London as well as in New York. One of the characteristic features of this journal has been its column of queries and answers. Here have appeared questions on every conceivable detail of practice in the plumbing and kindred trades, all of which have been answered with a clearness and precision which has made this column peculiarly valuable. The editors have now rendered the plumbing fraternity, and the general public as well, additional service by making a selection from the most instructive portions of this correspondence and publishing it in book form under the title "Plumbing and House Drainage Problems. This work make a neat octave volume of nearly two hundred and fifty pages clearly printed, and with one hundred and forty-six illustrations, some of them covering a full page. The general classification is as follows: Dangerous Blunders in Plumbing, House Drainage, Miscellaneous, Hot Water Circulation, Hot Water Supply, Form of Plumbing, Specification for an Isolated Country House, Appendix (with the plumbing laws of New York, Brooklyn and

Boston,) and Index. Under the first heading are treated the dangers of running vent pipes in improper places, and of the connection of soil pipes with chimney flues, etc. It is impossible to quote even a fair selection of topics in the chapters, so great is their variety. Among the more unusual ones are objections to galvanized iron pipes, intermediate tanks for water supply in high buildings, illustrated details of plumbing in notable buildings, such as the mansions of the Vanderbilts, Mr. Marquand and others, hot water service in an office building, etc. The contents are not confined strictly to questions and answers, there being frequent extracts from editorials in the way of introduction or explanation, sometimes also one question has several replies from different experts. While this work does not profess the completeness of a treatise architects, builders and plumbers, particularly those who are learning their trade or taking their first steps alone, will find it an invaluable *vade mecum* for practical information to be found nowhere else, and generally expressed and illustrated with a precision and clearness which is as admirable as it is rare.

AN announcement of the publication of fifty masterpieces of American and foreign artists, by the photo-gravure process of W. A. Cooper & Co., of Chicago is received. The collection contains the works of some of the first artists represented at the World's Exposition at New Orleans. The edition is limited and sold by subscription only. The work is published by R. R. Donnelley & Sons, Chicago.

THE October issue of the *Decorator and Furnisher* begins the fourth year of this successful artistic journal. The magazine has always employed the best writers and artists it could command, and each monthly number is crowded with entertaining articles, pleasing designs and valuable suggestions on the subject of house-furnishing and decorating. The October number contains articles on well known London houses, the homes of Madame Marie Rose Mapleson, Carl Rosa, Mrs. Langtry, Lewis Morris and others; designs for metal work, camp building in the Adirondacks, furnishing with moderate means, design for handsome sideboard, ceiling ornamentation, French house-furnishing, suggestions for decorators, letters for fancy work and sign painters, interior of the new Synagogue in New York, jewelry designs, and decorative art study for women.

Mosaics.

SEND twenty-five cents to THE INLAND ARCHITECT for a specimen copy of the "New Departure Specification."

THE terra-cotta frieze in the new Pension building at Washington is 3 feet by 1,200 feet, and contains 2,000 figures.

ABRAM C. MOTT, formerly vice-president of Abram Cox Stove Co., has now been elected president of the company, *vice* Abram Cox, deceased.

THE "New Departure Specification" is now ready, and we are filling orders as fast as received. If you have not seen it yet, send 25 cents for a specimen copy.

THE name of Architect Richard M. Hunt, of New York, was added to the list of those interested in the Grant memorial letter published last month, but too late for publication.

SUPERVISING ARCHITECT of the United States, M. E. Bell, has resigned; also Chief Clerk Jacobs, of the supervising architect's office, wearied with the unhealthy condition of things in that bureau, has resigned.

THOS. KELLY & BROS., 75 Jackson street, Chicago, have issued a neat catalogue and price list of their self-acting water-closets and other devices. It contains, also, a table showing the pressure of water in pounds per square inch for every foot in height to 205 feet.

ARCHITECT S. M. RANDOLPH brought suit in the superior court against Thomas Parker, Jr., to recover for plans of house No. 522 West Monroe street. The defendant paid him \$50, but refused to pay the balance, claiming that he has since accepted other plans.

THE government has commissioned Howard Kretschmar, the sculptor, of Chicago, to make a bust of General Grant. It is to be of marble, heroic in size and treatment, similar in style to the Sheridan bust, of which a copy is now being made, it having been ordered for the headquarters of the army in Washington city.

"STEAM HEATING for Private Residences and Public Buildings" is the title of a pamphlet issued by the Duplex Steam Heater Company of New York. It describes the heater made by this company, and gives several short dissertations upon the different problems involved in the heating of buildings by steam.

TOMLINSON & CARSEY, the well known contractors for fine wood finishing, have erected a kiln, and as the capacity is larger than their consumption requires they are prepared to do kiln-drying for outside parties at reasonable rates. They have gone to considerable trouble and expense to secure perfect apparatus.

METALLIC TILES are being used for wainscoting purposes to a larger extent than formerly. When they were first produced by the Metallic Tile Company, of Chicago, some difficulty was experienced in getting them properly set, but since the business came under the management of Mr. J. D. Duffy better results have been obtained. They were originated and designed by Architect J. W. Root, and have a superior artistic quality, as well as practical utility, to recommend them to use in offices and private buildings.

THE Goss & Phillips planing mill property was recently purchased by Messrs. A. H. Andrews & Co. It is situated on the east half of the block bounded by Twenty-first, Twenty-second, May and Fisk streets, on the South side, and is known as one of the largest properties of the kind in Chicago. The improvements on the ground consist of three large brick buildings filled with machinery used in the manufacture of sash, blinds, doors, etc., together with several sheds and outbuildings devoted to the drying and storing of lumber. In addition to this, they have also purchased several lots in the block adjoining on the north, which they

propose to use as a lumber yard. The new firm will not carry on the planing mill business, but propose to devote the property to the manufacture of their own specialties in the furniture line, and will not take possession for some months to come. The buildings were all in excellent repair, and the price paid was \$150,000.

PATTON & FISHER is the name of a new Chicago architectural firm, composed of Architect Normand S. Patton and Reynold Fisher, who has held for many years a prominent position in the office of E. E. Myers, of Detroit. The ability of the members of the new firm is well recognized, and entitles them to a high class of work.

S. H. HARRIS & SONS are manufacturing a roller skate that seems to be a vast improvement, both in mechanism and in finish, upon those that have heretofore given an element of danger to the pleasant pastime of roller skating. Mr. W. H. Winslow, formerly with the well known architectural and ornamental iron firm of Poulson & Eger, of New York, has connected himself with this firm and, under his supervision Messrs. Harris contemplate the addition of ornamental iron work for architectural purposes to their business, and with a prospect of ample success.

ATTENTION has been called to the duplex steam heater, manufacturer's office, No. 10 Barclay street, New York. The use of steam as a heating agent for buildings having passed the experimental stage, and found to be both healthful and effective, the only question is as to its economy and convenient manipulation. The inventor of the duplex steam heater appears to have solved this question effectually, and we commend its claims to the attention of architects and house owners. Its simplicity of construction and operation, economy in cost and maintenance, and perfect utilizing of the latent heat of steam are among its chief merits.

In regard to the competitive designs for the Grant memorial in Lincoln Park, four architects submitted designs. They were Messrs. Julius H. Huber, E. S. Jennison, W. L. B. Jenney and Albert Chappelle. The designs showed a variety of suggestions, and anyone of them would make a creditable memorial. That of architect Jenney, is an arch, and the committee decided that an arch was what they wanted, but instead of awarding the choice to Mr. Jenney they, contrary to all professional usage and even to the expressed judgment of the architects who competed, and who said Mr. Jenney was entitled to it, they ask the architects to again submit designs, this time for an arch. It is about equally certain, that no reputable architect will try to make capital out of Mr. Jenney's idea, and, that if other designs are submitted, that they will be thrown out and Mr. Jenney's accepted. The strangest part of the proceeding is, that the secretary and members of the board are perfectly just and honorable men, and only seek to carefully execute the trust placed in their hands.

Our Illustrations.

Warehouse for the McCormick estate. Burnham & Root, Architects.

Residence for A. C. Wakeman, Esq. Alfred Smith, Architect, Chicago.

Design for a national monument to General U. S. Grant, by Irving K. Pond, architect.

Residence for D. A. H. Cook, Esq., Dearborn Avenue, near Chicago Avenue. A. M. F. Colton, Chicago, Architect.

Competitive design submitted for the Cincinnati Chamber of Commerce, by James W. McLaughlin. The building was designed to occupy the entire lot 100 feet on Fourth street by 150 feet on Vine street. The material proposed was rough hewn red granite for basement up to water table, and long meadow stone for the remainder of exterior, with polished granite columns at the entrances. The roof of tower covered with red tiles, the top finial of this tower being 200 feet above the level of Fourth street. The hall of the Chamber of Commerce was located on the second floor, and had a clear floor space of 10,164 square feet inside of walls. Besides the large windows, this apartment was lighted by clearstory windows on all sides, the upper stories being set back from the front line of building. The various committee rooms, etc., were in three intermediate stories across the main front contained in the height of the main hall of commerce. The basement and first story, and the three upper floors were for rental purposes. The construction throughout to be fireproof.

Inventive Genius in Building.

- 325,245. Door, sliding. H. H. Hewitt, New York, N. Y.
- 328,479. Level, spirit. R. Barker, Lansing, Mich.
- 325,231. Sewer-trap and cess-pool. H. G. Badgley, New York, N. Y.
- 325,529. Window-screen. S. F. Gilmore, Princeton, Ind.
- 325,834. Sash-fastener. J. H. Hamaker, Canton, O.
- 326,073. Sash-weight. R. Vosburg, Oregon, Ill.
- 326,055. Ventilating buildings. I. J. Ordway, Chicago, Ill.
- 326,371. Blind. J. G. Wilson, New York, N. Y.
- 326,320. Door-check. J. E. Newcomb, Rock Island, Ill.
- 326,325. Doors and shutters, operating. E. Perkins, St. Joseph, Mo.
- 326,226. Sash-holder. H. Laurence, Chicago, Ill.
- 326,514. Scaffold-binder. J. A. Moross, Detroit, Mich.
- 326,735. Floor, fire-proof. W. W. Hazlett, Toronto, O.
- 326,920. Knob-attachment. H. E. Russel, Jr., New Britain, Conn.
- 326,848. Sash-fastener. C. O. Cole, Leets, Iowa.
- 327,335. Blind. R. M. Clapp, Burlington, Vt. Two patents.
- 327,450. Door-hanger. H. Myers, Alton, Ill.
- 327,228. Door-shield. N. Camp, Sedgwick, Kans.

Publishers' Department.

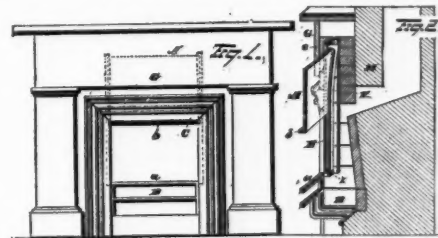
As the INLAND ARCHITECT AND BUILDER always manifests an interest in meritorious devices and inventions that in any way bear upon the specialty of which it is the advocate, it will be understood in calling attention to the Detroit Cast-Iron Steam Radiation it considers that novel steam-heating device as coming legitimately under this head of special mention, since it is a wide departure, in very many respects, from accepted methods of construction for steam-heating apparatus. Wherein this departure lies may be summed up briefly, in part, as follows: Made of the best grey iron, cast in beautiful designs, and constructed on the coil principle; minus

the customary base, so objectionable from its propensity to accumulate dust and dirt; large radiating surface; not affected by contraction or expansion owing to the absence of all packing and the joining of the sections by a heavy wrought-iron nipple-nut, which maintains a tight joint under all circumstances; capable of bearing increased or diminished in size at will, an invaluable feature which permits repairs without removal of the



radiation from the building; separating the loops by a diaphragm compelling the steam to pass through the entire length of the sections before returning to the boiler in condensation, thereby insuring perfect and immediate radiation of the heat, economical in operating, and adapted to either high or low pressure.

A VERY useful invention has been patented by C. A. Preston, architect, 57 Buhl block, Detroit, Mich., which the following cut will serve to illustrate:



A sliding grate-blower which slides up behind the mantel out of the way and out of sight, yet always handy the moment needed, is a grand improvement over the old blowers for which there seems never to be any place. The construction is simple, most economical, and durable; and working very easy, conveniently adjustable, and the blower removable for renewal if required, and not the least important, the fact that most all of the old styles of frames and mantels which are already set can have this new invention attached thereto. Then again it serves the purpose of a summer-piece and soot-protector when drawn down, is of Russia iron commonly, but is quite decorative when of brass or bronze (according to the expense and trim of the frame, fender, etc.,) with its embossed or repousse surface in artistic designs. The inventor will gladly furnish information regarding its manufacture.

Synopsis of Building News.

Akron, O.—Architect Jacob Snyder reports plans for a U. P. church edifice, to be constructed at Bellefontaine, O., to cost \$10,000. The building will have hot air heating, stained glass, slate mantels, wood cornices, channels, beams, soft and hardwood finish. Contracts will be let October 8.

Atlanta, Ga.—Architects Bruce and Morgan: Plans prepared and bids being received for a three-story brick hotel, 84 by 100 feet, to cost \$15,000; tin roof, galvanized iron cornices, electric annunciator, and modern conveniences. For Monroe County, N. C., two-story brick court house, 62 by 100 feet, to cost \$25,000; stone trimmings, slate roof, and galvanized iron cornices; under way. F. Hart, of Monroe, N. C., contractor; frame dwelling, under way; cost \$3,000.

Austin, Tex.—Plans have been agreed on by the county commissioners for a new county jail and the contracts are being let. It will be of brick, 31 by 61 feet, and contain eight cells in the cage. The Herzog Manufacturing Co., of Minneapolis, have been awarded the contract for the iron work, the sum being \$8,750.

Canon City, Col.—Considerable business is being done and the prospect is good for a busy fall and winter, as there is considerable building contemplated.

Architect Geo. W. Roe reports for A. O. W. W. Society, a hall, 44 by 100, two stories high, brick, cutstone front, cost \$6,000, Roe & Bradbury, contractors. For Andrew Hemerley, residence, 32 by 34, brick, cost \$2,400. Just commenced; For D. G. Peabody, apartment house, 34 by 88, two stories, brick, stone trimmings, tin roof, cost \$8,000; plan just finished. Just perfecting plan for a hotel for the Royal George Hot Springs Co. It is to be frame, Gothic roof, dormers, two stories high, will contain about forty rooms and cost about \$10,000.

Cheyenne, W. T.—While there has not been much idleness among mechanics, building business has been, compared with previous years, quite dull. Most of the construction has been unimportant and the prospects are unfavorable.

Architect J. S. Mathews reports the following near completion: Two-story brick stable, 40 by 70 feet, for A. H. Swan, cost \$4,000. One-story-and-a-half frame cottage 32 by 48 feet, for W. S. Hurlburt, cost \$4,300. As under way: Nine-room, one-story-and-a-half frame cottage, 26 by 44 feet, for E. A. Abry, cost \$3,500. Water closets, boiler and steam-heating apparatus for School District No. 1, cost \$3,000. One-and-a-half-story frame and stone, eight room, cottage, 25 by 50 feet, for E. Nagle, cost \$6,000, projected. Two-story frame residence, thirteen rooms, 32 by 74 feet, for Dr. Quinby, to cost \$8,500. One-and-a-half story frame and brick dwelling, 50 by 52 feet, for Nagle & Warren, to cost \$8,000. Stone church building, open tin roof, stained glass, etc., for Episcopal Society, to cost \$115,000. Two-story residence of stone—main building and wings—54 by 40 feet, for D. Amarratta, to cost \$18,000. In addition to the above, a number of smaller

buildings, and improvements to buildings are reported, amounting, in the aggregate to over \$8,000.

Chicago.—The outlook and building situation in Chicago is exceedingly satisfactory and promising. A general round among the architects found them, for the most part, driven with business in the carrying forward and completing of work already reported, in the furtherance of new work, and in the preparation of plans for projected buildings. One of the indices of active winter construction is the fact that brick are stiffening in price, and all other material is held firm at present figures.

Architect W. L. B. Jenney itemizes the following new work: Residence on Drexel boulevard and Forty-seventh street, pressed brick and cutstone ornamentation, for C. E. Gifford, cost \$18,000. Residence on North State street, brick with cutstone facade, for J. A. Woolford, cost \$7,000.

Furnace for Bower-Baff process of making iron; location not decided upon. The Bower-Baff process imparts to the surface of iron a blue-black color on rough iron castings, and on polished work, a beautiful steel-blue shade. It converts the surface into a magnetic oxide which absolutely prevents rust and highly ornaments the iron. The plans are now under preparation. Mr. Jenny reports several other projected buildings, the plans of which are not sufficiently advanced for mention.

Architect W. L. Carroll reports: Five detached residences at Groveland Park, for Annie L. Gartside, being finished, cost \$9,000. Residence for B. D. West, at 968 Jackson street, 22 by 64, pressed brick front with sandstone and terra-cotta trimmings, cost \$6,000. Private residence, for J. D. Osgood, two-story and high attic, pressed brick front with slate roof, mansard, cost \$3,800. Block of fourteen flats at 211 Illinois street, for T. Mackin, an elegant structure with ground area of 56 by 97 feet, height three stories with basement, cost \$25,000. Additional story to D. Weaver estate flats, adjoining the Mackin flats, cost \$2,000. Has prepared plans for a number of projected modern cottages to be erected at Normal Park, by Judge Williamson and P. H. Seymour. Is preparing plans for a South-side residence to cost in the neighborhood of \$4,000. One for cutstone front building on N. Clark street, and another similar to the Osgood residence at Irving Park.

Architect Wm. Longhurst reports: Brownstone front residence, 821 Washington boulevard, for J. C. McElroy, cost \$9,000. Pressed brick, stone trimmings, residence 785 West Monroe street, for Mrs. C. S. Scott, cost \$6,000. Brownstone front building, 231 Michigan avenue, for H. C. King, cost \$12,000. Pressed brick front, Hummelstown brownstone trimmings, 3218 Groveland avenue, cost \$10,000. Flat building, 3335 Dearborn street, for Jacob Winger, cost \$5,000.

Architects Edbrook & Burnham report as new work: Four-story apartment building, on Western avenue and Madison street, for J. O. Smith, cost \$16,000. Four-story stone front building, corner Indiana avenue and Franklin street, for F. Headen. Four green and brownstone dwellings, Calumet avenue, between Thirty-second and Thirty-third streets (not yet let), to cost \$36,000. Two-story building on Forest avenue, below Thirty-first street, for G. H. Cole. Fine pressed brick and terra-cotta front dwellings on Terrace street, for Campbell Bros.

Architect Wm. Striplenman reports: Cottage dwelling, on Cottage Grove avenue, for H. A. Brown, cost \$5,000. Winston contractor. Dwellings at 997 and 1001 West Harrison street, for ——— McGinnes, cost \$7,000. Three-story store and flats, pressed brick front and stone trimmings, corner of Center avenue and Harrison street, 75 by 125 feet, cost \$15,000.

Architect E. Bauman reports: Store and flat building at 186 N. Clark street, for J. Waldhauser, cost \$10,000. O. Clipp, contractor.

Architects Addison & Fiedler report taking bids on pressed brick and terra-cotta front residence building at 2452 Prairie avenue, for E. P. Taylor. On three flat buildings, on Belmont avenue, for A. Heile. Five-story, iron and stone and plate glass front building, on Monroe street and Fifth avenue, to cost \$75,000.

Architect J. L. Silsbee reports: Dwelling at 2954 Calumet avenue, for J. E. Taylor, cost \$21,000. Barn for Chicago City Railway Co., at Cottage Grove avenue and Twenty-ninth street, cost \$7,000.

Architects McAfee & Lively report they are taking figures on a three-story block of stores and flats, for Frank D. and A. L. Patterson, pressed brick and red terra-cotta, location, corner Cottage Grove avenue and Forty-third street, to cost \$45,000. A double flat, for same owners, on Thirty-sixth street, near Halsted street, to cost \$2,500. M. Stafford, contractor. Plans prepared for residence, T. Needham, owner, at La Grange, to cost \$3,000. Two semi-detached dwellings, for W. Lester, 261 Park avenue, to cost \$8,000. Flat-building, for H. Bentz, 352 West Congress street, to cost \$5,000. A flat and two stores for B. Quigley, 144 West Twelfth street, to cost \$8,000.

Architects Wheelock & Clay are taking bids on three-story and basement residence, for J. P. Ahrens, on Vernon avenue, pressed brick and terra-cotta front, steam heating and fine interior finish, to cost \$12,000. Three two-story pressed brick and brownstone dwellings, 50 by 61 feet, at 3764-6-8 Indiana avenue, for H. Wheelock, cost \$12,000. Also, making plans for \$40,000 residence for E. Partridge, to be on South side. Seven thousand dollars dwelling for B. F. Nourse, 3649 Grand boulevard, B. G. Robison, contractor.

Architect H. D. Deam reports: Four houses for J. R. Laing, 3230 to 3232, Forest avenue, facade, pressed brick and brownstone trimmings, interior hardwood and cherry finish, cost \$8,000. Four semi-detached houses on Madison avenue, South Park, Hyde Park, to cost \$16,000. Improvements on Judge Jamison's new residence at Hyde Park, cost \$5,000.

Architects C. L. Stiles reports taking bids on residence for E. Maher, at corner of Thirty-eighth street and Indiana avenue, to cost \$7,000. On two-story frame residences for J. H. Hoskins and Henry Werno, at La Grange. Three-story and flat building, 356 Blue Island avenue, stone, iron and plate glass front, to cost \$1,600, owner Jno. Patterson; contractor, M. Hogan.

Architect C. H. Gottig reports: Store and flat building at Chicago avenue and Wells street, for Jno. Voltz, cost \$10,000, C. Halmon, contractor.

Architects Bauer & Hill report: Plans completed for two dwellings at Madison avenue, Hyde Park, for Congressman Dunham, facades to be of artesian stone, cost \$20,000.

Architect W. A. Furber reports: Plans for residence for Dr. J. A. Swasey, Michigan avenue, between Thirtieth and Thirty-first streets, three stories, brownstone front, dining-room, kitchen, reception-room and laboratory on first floor; parlors, family room, etc., on second floor; third floor, chambers. Two stores and apartment building at Thirty-third street and Cottage Grove avenue, for W. Werner, to cost \$10,000. Two brick residences, stone trimmings, at Forty-ninth street and Drexel boulevard, for H. E. Brown, to cost \$8,000.

Architects J. M. Van Osdel & Co., report the following new work since the last number: For Mr. Bines, seven-story building, 50 by 68 feet, on Dearborn street and Third avenue, south of Van Buren street, pressed brick and nickel-plate stone. For Mr. Courtie, two dwellings and stables on Washington boulevard, near Clarkson court, each 26 by 70 feet, two story, French roof and basement, cost \$15,000. For Mr. C. C. Heisen, of Aberdeen, Miss., six-story and basement building, northeast corner of Dearborn and Quincy street, 50 by 92 feet, St. Louis pressed brick and nickel-plate stone trimming, cost \$35,000. Two dwellings for John Spry, on Sangamon street, near Adams street, each 18 by 54 feet, three stories and basement, Anderson pressed brick, brownstone trimmings, cost \$5,000 each.

Architect Otto H. Matz has just let the contracts for a basement and three-story brick building, 26 by 90 feet, to be used by Messrs. Ernst Bros. for office and storage purposes, with front on Larrabee street. Also, for the same party, a brick barn and stables for fifty horses, with a front of 90 feet on the same street, three stories high, with trussed roof. Also, an ice house, 60 feet by 90 feet, three stories high. In the rear of same, a boiler-house and chimney, 130 feet high, will be erected. The building of foundations has already been commenced. Cost of these improvements will be \$60,000. Mr. Matz has also commenced the building of a brick residence, 30 by 65 feet, on Park street for Mr. H. C. Buechner. The fronts will be of Racine bricks with cutstone trimmings, cost \$8,500.

Cincinnati, O.—There is not much change in matters since the last report, except that the buildings mentioned are further advanced and new ones commenced.

A new city hall combined with a central police station is talked of and will no doubt soon assume definite shape. This improvement is certainly necessary, as well as is that of a new market house, the upper part of which could be used as an armory and a public hall.

The Burnet House and Gibson House, two of our prominent hotels, have been undergoing extensive repairs, additions and alterations during the summer, and these when completed, will add greatly to the convenience of the traveling public. Modesty on the part of the architects forbids the mention of their names, and let it suffice to be said that their reputations are national and their ability unquestioned.

The electrical service in the Burnet House will be absolutely perfect and reflect credit on the contractors, while the office, dining-hall, parlors and barber shop will be models of completeness and beauty.

In the Gibson House is to be seen one of, if not the finest wrought iron stair railing in

this country, the cost for one floor being nearly \$2,300. The barroom and ladies ordinary when finished with beautiful frescoes, stained and plate glass, cannot fail to attract. The arrangements for removing garbage, ventilating the bin, etc. are perfect, while the immense refrigerators cannot be improved upon. The cellars will be perfectly dry, and will have a portion set apart as a parlor for the servants' use, away from all the heat and fumes of the kitchen, nicely carpeted and comfortably furnished. Such, in short, is a brief description of a few of the improvements. In my next introductory I will have something to say concerning trade and unreliable builders.

Architect Chas. Crapsey reports: For the C. H. & D. R. R. Co., alterations and additions to railroad station at Hamilton, Ohio. The interior arrangements of depot are changed, and light waiting-rooms, ticket office, and closets secured. The new additions consist of a tower at the end, two stories high to be used as a telegraph office. For H. D. Peck, Esq., a two-story brick of ten rooms, bath, etc., pine finish and slate roof, cost \$7,500. For H. D. Schockley, Esq., a two-story frame of eight rooms, bath, etc., pine finish and slate roof, cost \$5,500. Remodeling house for A. G. Clark, Esq., brick for the first story and frame for the second. The new stairs are quite ornamental, and appear to good advantage in a new hall.

Architect James W. McLaughlin, the architect of our art museum building, is busily engaged in preparing plans for the new School of Design building. David Linton, Esq., has given \$75,000, and the late Reuben R. Springer, Esq., \$20,000 toward the erection of this building. It will be situated close to the museum in Eden park and its architecture is in correct keeping with that of the museum.

Architect Gustave W. Drach reports: For Joseph S. Cleaney, Esq., a frame dwelling of two-and-a-half stories, ten rooms and slate roof, cost \$5,500. For Louis Manss, Esq., a handsome brick residence of fifteen rooms, two-and-a-half stories high. The finish on first floor will be hardwood. The principal features and points of beauty will be a conservatory, porte-cochere, and a wide staircase hall 13 by 30 feet. The cost will be about \$15,000. For Mrs. E. Euphrat, a brick residence of three stories, and ten rooms, with tin roof, cost \$4,000. Outlook encouraging for next year.

Architect Emil G. Reuckert reports: A row of three houses, each two-and-a-half stories high, seven rooms, laundry, bath, etc., and tin roof, for H. Kranig, A. Klare and H. Vondem Felder. Each cost \$4,750. For A. Shimp, a frame dwelling of two-and-a-half stories, six rooms and slate roof. Sketches are in preparation, and the house will probably cost \$3,000.

The architects are not very busy on new plans this month, but completing old ones. Messrs. Anderson, Hannaford, Nash and Plympton & Trowbridge all feel encouraged at the outlook for work. As long as Government bonds keep so far above par, I think, quoting a well known builder's ideas, "will investors put their money in brick and mortar, which yields as a rule, a better income than these bonds."

Cleveland, O.—The building situation is dull and not over-promising for the fall and winter.

Architect Clarence reports: Three-story brick and stone building, 60 by 85 feet, for Henry Wich, cost \$20,000. Two-story brick and frame building, 80 by 80 feet, for Mrs. A. R. Cole, cost \$15,000. Alteration and improvements on dwelling for G. W. Perkins, cost \$4,000. A frame building, 50 by 80 feet, for W. T. Crawford, cost \$15,000, and three cheaper buildings aggregating \$5,000.

Clinton, Ia.—There is considerable building in the line of cottages, what is known as the Chicago cottage, having quite a run.

Architect W. W. Sanborn reports the following buildings under way: Two frame cottages, 28 by 44 feet for E. C. Walsh, cost \$3,500. Brick dwelling, 32 by 60 feet, for W. H. Harding, cost \$5,000. Frame dwelling, 30 by 50 feet, for J. Henery, cost \$2,000. School district, Lyons, Ia., brick school house, 53 by 80 feet, cost \$10,000. Jail for Clinton county, Iowa, brick, cost \$21,500.

Coldwater, Mich.—Quite a number of small buildings are being erected and all hands are plentifully supplied with work. A considerable amount of changes in buildings have been made during the season.

Architect M. H. Parker reports addition and changes planned for a two-story frame building to cost \$1,350; work not yet let.

Colorado Springs, Col.—Present building condition quiet with a poor outlook for winter. For the coming spring and summer the prospects are good.

Architect C. S. Wright reports: Plans made and in preparation for Hotel Co., four story brick and stone hotel building, 100 by 125 feet, cost \$100,000. One-story brick dwelling, 28 by 38, for W. Strong, cost \$5,000. One-and-a-half story stone dwelling, 52 by 68 feet, for Lieut. Hall, U. S. A., cost \$10,000. One-story frame dwelling, 40 by 42 feet, for F. A. Boon, cost \$4,000.

Columbus, O.—D. K. Watson is erecting a \$4,000 residence on Town street; will have modern conveniences. D. Ramsey has under way a fine residence on Oak street, to cost \$6,000.

Council Grove, Kan.—There is no flattering outlook for present work. Quite a number good buildings are projected for the spring season.

Architect J. H. Leedy reports seven frame dwellings under way, ranging from \$1,500 to \$2,000, and three projected buildings aggregating \$7,400, one a brick office building, 24 by 60 feet, for Scott & Jones, to cost \$5,000.

Detroit, Mich.—While the present condition is fair, the outlook is very much brighter, as most of the architects are busy now, some driven, all indicative of a return of better times.

Architects Scott & Co. report: A roller-skating rink 90 by 100 feet, brick, on upper end of Griswold street, arranged for a riding school in summer. It is centrally located and to be first class; owner H. N. Williams, cost \$10,000; two-story brick dwelling 38 by 70 feet; stone and terra-cotta trimmings, slate roof; owner F. B. Clark, cost \$8,000; two-story dwelling 38 by 45 feet, first story brick, second story frame and slate, owner Henry Hawke, cost \$7,500; two-story frame dwelling 60 by 80 feet, shingle roof, for Wm. Woods, Phoenix, Arizona, cost \$4,000; three double two-story brick dwellings, stone and terra-cotta trimmings, slate roof, area 50 by 80 feet, owner Dr. H. H. Jackson, cost \$13,500; three double brick dwellings same character, area 60 by 75, owner Wm. Bercry, cost \$12,500; projected; two-story brick dwelling, stone trimmings, slate roof, area 40 by 50 feet, owner Richard Hall, cost \$5,500; two-story brick dwelling, stone trimmings, slate roof, area, 28 by 70 feet, for C. K. Griggs, Rochester, Mich., cost \$4,500; two-story brick barn, terra-cotta trimmings, slate roof, 40 by 32 feet, for W. C. Colburn, cost \$3,000; two-story brick dwelling, stone trimmings, 35 by 40 feet, for W. King, cost \$4,000.

Architect G. W. Lloyd reports: For St. Joseph's R. C., Dearborn, Mich., a Retreat to supersede old Retreat on Michigan avenue, Detroit. The entire plans call for a building 600 feet long at a cost of \$118,000. The structure is to be of brick with Ohio stone trimmings. The building is to be largely fireproof, the plastering to be done on wire, etc. The present construction will comprise two three-story wings 160 by 50 feet deep and a rear extension 30 by 62 feet. The plan calls for a central building four stories high, with an area 60 by 170 feet. Nuppenan & Clark and A. Chaption, Jr., contractors.

Architects Donaldson & Meir report: For St. Joseph's Church heating and ventilation, direct and indirect system, two low-pressure boilers, 380,000 cubic feet of air to heat, cost \$6,000, Lane Brothers, contractors; three-story brick dwelling, stone trimmings, gravel roof, 26 by 28 feet, for Jas. A. Marsh, cost \$6,000.

Architect H. Englebert reports: Two-story brick store and dwelling, stone trimmings, 25 by 56 feet, cost \$4,000.

Other buildings reported are two-story frame dwelling and barn for N. D. Backus, cost \$6,000; frame hotel building with barn and stock-yards for H. King, cost \$25,000; two-story brick store and hall, 70 by 54 feet, cost \$8,000; two-story brick store and hall, 46 by 56 feet, cost \$6,500, Begrim & Co. contractors; two-story brick manufacturing building, 38 by 80, cost \$4,500, C. A. Bendsley, contractor; two-story brick dwelling, 41 by 41 feet, for G. W. Moore, cost \$6,000; block of three two-story brick stores, 66 by 64 feet, for Phil. Letourneaux, cost \$8,000; two-story brick store, 20 by 68 feet, cost \$5,400; two two-story brick dwellings, slate and gravel roof, for J. B. Gibson, cost \$5,000; brick dwelling, slate roof, 40 by 65 feet, cost \$8,000, H. Carew, contractor; fourteen one-story dwellings, frame, one block each, 18 by 38 feet for C. K. Secor, cost \$7,000; three-story brick addition to Nursery building, slate roof, 34 by 50 feet, Hubbard & King owners, cost \$8,000.

Permits issued for new buildings during month of September\$275,715

Permits issued during September for additions, etc. 29,445

Total\$305,160

Des Moines, Ia.—Business has been very good but somewhat more quiet now. The outlook for the coming season is unusually good. Architects are being consulted already by clients who contemplate building in the spring, and most of the architects are now at work on plans for the coming season.

Architects Foster & Liebbe report the following: Fire-proof court house for Page county, Iowa, 96 by 110 feet, cost \$75,000. Court house for Washington county, Iowa, brick and fire-proof, 86 by 90 feet, cost \$65,000. Frame court house for Calhoun county,

Iowa, 50 by 50 feet, cost \$6,000. Brick school house at Atlantic, Iowa, 90 by 90 feet, cost \$20,000. Insane asylum building, fire-proof, Clarinda, Iowa, cost \$1,000,000. Brick school house, Clarion, Iowa, 60 by 60, cost \$7,000. Frame school house, Clarinda, Iowa, 50 by 60 feet, cost \$4,000. At Des Moines, brick business block, 66 by 132 feet, for Martin Flynn, cost \$35,000. Brick business block, 44 by 132 feet, for B. Rice, cost \$22,000. Brick business block, 44 by 132 feet, for C. Youngermann, cost \$22,000. Brick business block, 22 by 80 feet, for Jno. O'Connor, cost \$9,000. Brick business block, 22 by 80 feet, for H. Henson, cost \$6,000. Brick business block, 22 by 100 feet, for J. Noblgermuth, cost \$7,000. Brick business block, 44 by 60 feet, for W. Phillips, cost \$8,000. Brick business block, 66 by 80 feet, for H. J. Shackelford, cost \$18,000. For P. N. Musser, Muscatine, Iowa, two-story dwelling, 60 by 80 feet, cost \$15,000. W. H. O'Hara, Cedar Rapids, Iowa, business block, 40 by 70 feet, cost \$5,000. C. Lewis, Ottumwa, Iowa, opera house, 60 by 100 feet, cost \$20,000.

Architect W. L. Plack reports: Three-story, 50 by 70 feet, brick, stone trimmed hotel building, at Sutton, Neb., for Sutton Hotel Company, cost \$12,000; W. B. Schumacker and Hand & Carter, contractors. School house, two stories, 47 by 33 feet, for Patterson school board, cost \$3,500. Three-story business block, 44 by 110 feet, brick and cutstone, for H. Galley, cost \$12,600; W. B. Christy, contractor. Two-story frame residence, 42 by 70 feet, for W. W. Lyons, cost \$7,000; Jas. Garrity, contractor. Two-story brick veneered residence, 36 by 52 feet, for Chas. Hutchinson, cost \$5,200; Roberts & Smith, contractors. Three-story brick apartment house, 25 by 45 feet, for C. E. Riser, cost \$4,700 (not let). Two-story brick tenement building, 23 by 40 feet, for S. A. Robertson, cost \$3,200. Two-story brick office building, 66 by 22 feet, for Guthrie, Williams & Co., cost \$5,100; Chas. Nichols, contractor; and five other buildings ranging from \$1,200 to \$2,350, and aggregating \$10,900. Two story dwelling, 40 by 70 feet, cost \$5,000. All the above work under way.

Architect C. H. Lee reports the following plans completed since his last report: Finishing plan for Ward building, at Brooklyn, Dak., cost \$6,000. Dormitory for young ladies' seminary, at Brooklyn, Dak., cost \$60,000. Public school building, at Iowa City, Iowa, cost \$10,000. Residence for S. Calvin, Iowa City, Iowa, cost \$4,000. Residence for C. S. Newcomb, Des Moines, Iowa, cost \$6,000. Cottage for F. L. Palmer, Des Moines, cost \$1,000.

Dubuque, Ia.—Architect F. D. Hyde reports: A two-story frame cottage, 40 by 41 feet, for Dr. Irving W. L. Smith, of Charles City, Iowa, cost \$3,000. And remodeling and enlarging Catholic church, at Lycurgus, Iowa, cost \$2,500.

El Dorado, Kan.—For the past two months there has been a lull in building, but it is now brightening up and the promise of fall business is good.

Architect N. A. Collins reports: Two-story brick building, tin roof, and basement, 24 by 100 feet, for E. Comes & Co., cost \$6,950. Brick building, two stories, 22 by 100 feet, for J. C. & W. P. Rodgers, cost \$6,000. Two-story brick building and basement, tin roof, 24 by 40 feet, for W. N. Smalley, cost \$3,000. Three-story and basement, brick hotel, tin roof, 50 by 100 feet, for N. Rector, cost \$12,000. Two-story frame residence, 24 by 40 feet, for F. Wing, cost \$3,000. Two-and-a-half-story frame residence, 24 by 40 feet, for Jno. Fouch, cost \$4,000. One-and-a-half-story frame residence, 44 by 54 feet, for J. Phillips, cost \$2,200. Brick hotel building, with basement, two stories, 30 by 90 feet, for T. Mussilman, cost \$7,000. Round house and machine shops for St. Jo., H. & W. R. R., 80 by 100 feet, cost \$7,000; and eleven other buildings ranging from \$1,000 up to \$2,000, aggregating \$9,500.

Enterprise, Kansas.—Architect S. W. Howard reports plans: For frame dwelling for F. M. Whittier, cost \$3,000. For two-story frame cottage, Queen Anne style, for J. H. Brady, modern improvements, stained glass, marble mantels, hot air, hardwood finish, cost \$10,000.

Fort Wayne, Ind.—Architect H. W. Matson, reports: remodeling St. Mary's Catholic church, cost \$6,000. J. Pronger, contractor. Shaw, Kendall & Co., of Toledo, O., put in the steam-heating apparatus; three-story brick store building, for Mr. Hartman, J. Butler, contractor; five other minor buildings aggregating \$6,450.

Fredonia, Kan.—By a vote, the people of Wilson county have just decided, by a majority of 101, to build a \$30,000 court house.

Gainesville, Ga.—It is projected to build a first-class modern hotel building at Gainesville to cost \$100,000. A New York party has agreed to furnish \$75,000 of the amount, and a hotel man of large experience, agrees to invest in it \$10,000, on the condition that he shall have the management of the hotel when constructed. This leaves \$15,000 to be raised by subscriptions to stock among the citizens of the town.

Galatin, Mo.—The citizens of Daviess county are about to vote on a proposition to issue bonds to the amount of \$50,000, for the construction of a court house and jail at Galatin.

Galena, Ill.—Considerable excitement exists among lead-miners at Galena over a rich discovery of mineral in Apple River township on the old Squire McCarty farm. The lode bids fair to be one of the most valuable ever struck in this region. The zinc mines at Benton, Wis., twelve miles from this city, in which several Chicago capitalists are interested, are now turning out 150,000 pounds of ore, which is shipped to La Salle, Ill. The Hewett and Pritchard mines in Benton and along Fever river are also very productive, yielding from six to eight car loads of black-jack (zinc ore) and lead ore per week.

Grand Rapids, Mich.—Architect W. G. Robinson reports: Plans for spire on St. Mary's Church. As designed, the spire will be ninety-three feet above the roof and one hundred and fifty feet from the ground, surmounted by a cross, cost \$4,000.

Hannibal, Mo.—Architect Jas. Oliver Hogg, reports: he is preparing plans for a Presbyterian chapel, to be brick, with cutstone and galvanized iron trimmings, at an estimated cost of \$25,000.

Hastings, Neb.—A skating rink, 88 by 150 feet, is under construction. It will be so arranged that it can be changed to a natatorium; cost, \$12,000.

Ionia, Mich.—Outlook fair and mechanics all busy. Architect O. Waterbury, reports: a Queen Anne dwelling under way, and a projected double store with row of iron columns in center of first floor, second story devoted to offices and ladies' library, third story to Masonic hall. One hundred feet back to be three stories, balance two stories, area 33 by 155 feet; cost, \$15,000.

Jerseyville, Ill.—Architect Wm. Embley, reports new work under way: two-story brick storehouse, tin roof, galvanized iron cornice, 32½ by 70 feet, for Geo. Goeke, cost \$3,200. Howell Bros. and H. D. Sibert, contractors; two-story brick building, stone trimming, tin roof, galvanized iron cornice, plate glass front, 28½ by 70 feet, for E. M. Boyle, cost \$3,000. Grant & Sons and E. B. Scutt, contractors; Grafton, Ill., two-story modern style cottage with tower, brick, stone trimmings, slate roof, 34 by 48 feet, for Chas. Brainerd, cost \$4,000. E. B. Scutt, contractor; Greenfield, Ill., two-story frame dwelling, slate roof, stone cellar, 34 by 59 feet, for Thos. Ford, cost, about \$3,600; receiving bids.

Joliet, Ill.—Architect H. Boehme, reports: plans for a stone and brick town hall building, for Seneca, Ill. It will provide for a jail and fire engine; cost, \$5,000.

Kansas City, Mo.—There is considerable activity in building, with the drawback of a scarcity of brick, owing to the wet season. They are ruling high in price.

Architect A. Van Brunt reports: four four-story brick and terra-cotta stores, with basement, 24 by 108½ feet, for the Deardorff estate, cost \$46,000; a four-story brick, stone and terra-cotta building, 48 by 110½ feet, for the Y. M. C. A., cost \$50,000; six dwellings, brick, stone and terra-cotta 150 by 48 feet, for Geo. Wheelock, cost \$22,000; six two-story brick buildings, 112 by 42 feet, for C. A. Henyon, cost \$18,000; two-story brick barn, 24 by 50 feet, for J. A. Gallagher, cost \$4,000; three four-story buildings, 24 by 110 feet, for Geo. Eng & Co. (Cincinnati), cost \$28,000. The Y. M. C. A. building is not yet let, the excavation going on.

Architects W. W. Polk & Son report: two-story, nine room cottage residence, Queen Anne style, on Penn street, for D. B. McMerchant, cost \$5,000. Will have stained glass, hot-air heating, electric bells, speaking tubes, wooden mantels and hardwood finish.

Marshalltown, Iowa.—Business is moderately fair, with fair prospects for fall trade. The outlook for 1886 is very promising.

Architect F. M. Ellis reports: State Insane Asylum, Norfolk, Neb., four-stories, 244 by 60 feet, (foundations now in) cost \$100,000; Reform School building, Kearney, Neb., three-story structure, (foundations nearly in) 50 by 52 feet, cost \$30,000; Home for the Friendless, Lincoln, Neb., three-stories, 50 by 50 feet, cost \$12,000; four-story building, bank, stores and offices, Lincoln, Neb., 50 by 142 feet, for Richards Bros., cost \$60,000; Congregational Church building, Lincoln, Neb., brick, and slate roof, 54 by 96 feet, cost \$25,000; M. E. Church, Beatrice, Neb., one-story, brick, 54 by 114 feet, cost \$25,000; Congregational Church, frame, Norfolk, Neb., 48 by 85 feet, cost \$10,000; brick residence, Queen Anne style, 40 by 52 feet, for N. A. Rainbolt, Norfolk, Neb., cost \$8,000; high school building, Norfolk, Neb., brick, two-stories, 60 by 60 feet, cost \$13,000; two brick school houses, Red Oak, Iowa, 60 by 50 and 60 by 60, cost \$20,000;

frame school house, Eagle, Iowa, 53 by 52 feet, contract to be let October 15, cost \$6,000; Presbyterian Church, Marion, Iowa, stone, with slate roof, 63 by 75 feet, cost \$25,000; frame and shingle residence, Queen Anne style, 45 by 61 feet, for J. E. Houtz, Lincoln, Neb., cost \$12,000; same and same dimensions, for F. Neely, Waterloo, Iowa, cost \$12,000; opera house, Newton, Iowa, brick, stone and iron, 66 by 100 feet, cost \$30,000; opera house, Huron, Dak., brick and iron, 63 by 75 feet, cost \$25,000; high school building, Robinson, Ill., brick, ten rooms, 85 by 95 feet, cost \$20,000; high school building, Waukon, Iowa, brick, ten rooms, 85 by 95 feet, cost \$20,000; court house, Hanson county, Dak., brick, 50 by 90 feet, cost \$25,000.

Minneapolis, Minn.—The prospect for the fall trade holds out fair, the usual amount of good, substantial buildings are going up. Within the past month 155 building permits have been taken out at an aggregate estimated cost of \$299,285.

Mr. Wm. Wehner, who is largely interested in the panoramas of Gettysburg and Shiloh, has formed a company and effected a lease for the term of 50 years, of a lot on the corner of Fifth street and First avenue and a brick building will be erected at once on the plan adopted for these panoramas. It is understood the panoramas to be painted for the Minneapolis building will be the siege of Atlanta, and will be completed for exhibition by April or May next.

Architect Jas. H. Record sends in report of two small dwellings inclosed and under way at an aggregate cost of \$6,500.

Architect C. F. Struck reports: Church edifice for St. Joseph's Church Society, 80 by 145 feet, basement and auditorium stone and brick, wooden truss and wood joists, tower on each corner raising 160 feet, height of side walls 30 feet, cost \$50,000, style of architecture Romanesque, contractor Joseph Knobloch; three-story and basement, 52 by 30 feet, brick and stone office and store building for J. M. Griffiths, cost \$5,000; church edifice for free Christian Church Society, brick veneered and stone basement, 47 by 80 feet, cost \$10,000, J. A. Gilman, contractor.

Architect Geo. Corser reports plans in preparation for a nine-room residence for himself, on Ludley avenue and Nineteenth street; cost, \$40,000.

Architects Long & Keis are preparing plans for store and dwelling for T. A. Braun on Clinton avenue; cost, \$5,000.

Architect H. W. Jones reports residence for J. C. Hoblitt on Harmon place, cost, \$9,000; also, making plans for dwelling in Oak Park for J. C. Rockwork, cost, \$3,000; also, house on Second avenue south for C. Babcock; cost, \$5,000.

W. B. Tuttle is erecting a house on Portland avenue, cost, \$3,000; Lester Bros. are erecting a three-story dwelling, 40 by 60 feet, on Thirteenth street, for Mrs. Simms; cost, \$6,500.

Mount Vernon, Ohio.—A Company known as the Magnetic Springs Health Home Company has been incorporated at this place, with a capital stock of \$20,000. It is proposed to erect a health hotel resort.

North Springfield, Mo.—Building has been quite active this season and the outlook is good. Architect S. B. Abbott sends in a report of the Bank of Springfield, now under way. It is said it will be the finest building west of St. Louis. It is to be two stories in height with a frontage of 24 feet. The facade will be of variegated stone, sills of limestone, water table of Warrensburg stone, pilasters and spandrels Tennessee marble, polished columns and keystones. The walls will be of Sterling pressed brick, trimmed with Warrensburg stone, and surmounted with a galvanized iron cornice.

Oberlin, Kas.—The Chicago, Burlington & Quincy Railway has just opened another branch of its line for the traveling public. The new branch extends from this place to Republican, Neb., a distance of about seventy miles. Six stations have been built on the road, the chief one as yet being situated at Norton, Kas. It is thought the branch will shortly become an important feeder of the main line, as it passes through a thickly populated country and one of the finest tracts of land with which the country is covered. The growth and needs of that section of country demanded an outlet which is now properly supplied. The last time-card shows that arrangements have been made for the regular running of trains on the branch from this time forward.

Omaha, Neb.—There is considerable activity in building this fall. The Exposition building is progressing in construction. The Board of Trade building will be delayed until next season.

Architect Sidney Smith reports three-story brick tenement, terra-cotta ornamentation, 132 by 36 feet area, for Dr. Graddy, cost, \$18,000; Griffith & Chapin, contractors. Similar building for E. Creamer, same cost and same contractors; three-story double tenement building, pressed brick and terra-cotta front, 58 by 36 feet area, for Wm. Parrott, cost, \$8,000; J. Lewis, contractor; three-story block, stores and flats, pressed brick and terra-cotta fronts, 132 by 66 feet, for C. A. Clowry, cost, \$40,000; Griffith & Chapin, contractors; two-story frame residence 26 by 56 feet, for E. P. Birkhewer, cost, \$4,000; similar structure for J. M. Hurlburt.

Ripon, Wis.—Not much doing beside overhauling. Mechanics, however, are kept from idleness. Prospect for the future fair. Architect A. N. Barney, reports the walls of the City Hall going up, and the remodeling of several residences and dwellings.

Rockford, Ill.—This is one of the liveliest cities from a building standpoint, this season, there is in the West. The prospect for a \$2,000,000 soldiers' home being erected here is more than favorable. The contemplated site is on the east bank of the Rock river, north of the city. A club house, also an Athenaeum building, have been started and a Catholic church edifice is under way, the latter by Architect J. J. Egan, of Chicago.

St. Louis, Mo.—Reports are that business is a little slow at present, but a very favorable prospect of a good winter's work.

Architects Ramsey & Swazey send a few buildings they have under way: Queen Anne cottage, two stories and attic, frame, second story and roof shingles, frontage 40 feet, cost, \$5,000; for John Till, Esq., stone front building, brick walls, three stories, 25 by 76 feet, cost, \$11,000; for Wm. Graham, Esq., pressed brick front building, two stories and attic, 25 by 51 feet, cost, \$5,000; for F. P. Oliver, Esq., Queen Anne cottage, two stories and attic, first story, brick, second, frame with red slate, attic and roof, black slate; cost, \$5,000.

Architect L. B. Legg reports brick dwelling on Waverly place for Capt. I. H. Conn, cost, \$12,000; A. E. Cook, contractor.

Weber & Co., builders, are erecting three-story brick building on Locust street, between Jefferson avenue and Beaumont street, for Jno. A. Smith; cost, \$7,000.

Architect C. C. Helmers reports three-story brick building on Russell avenue, for C. W. Hammond, cost, \$5,000; A. P. Rogers, contractor.

Architects Fames & Young report two-story brick dwelling on Washington avenue, for G. W. Simpkins, cost, \$19,000; contractors, F. S. Greene & Co.

Springfield, Ill.—Architect G. H. Hemle has completed the Methodist church building, corner of Fifth street and Capitol avenue, to the satisfaction of the building committee. Cost of structure, \$74,000.

St. Paul, Minn.—Building is quite active for the season of the year, and architects and builders are accordingly elated. During the month of September, 90 building permits were taken out, at an aggregate estimated cost of \$143,415.

Syracuse, Neb.—Architect Thos. Jones reports under way: one-story frame store 22 by 50 feet, for C. W. Ireland, cost, \$1,400; two-story frame dwelling, for Wm. Ashley, \$3,500; two-story frame dwelling, for H. P. Ashton, \$3,900; and a projected frame residence for A. Weller, to cost \$4,200, besides one or two other smaller edifices under way.

Sturgis, Mich.—Architect J. M. Barrows reports: under way, Church edifice for the Baptist society. Building is in the form of a cross, brick veneered, and shingle roof, area 40½ by 64 feet, cost \$5,000.

Topeka, Kan.—Architects Haskell & Wood report: Plans for two-story library hall for Washburn college, limestone trimmed with sandstone, cost \$20,000; F. L. Stephenson, contractor. For State of Kansas, for a natural history building for the State University. The building will be steam-heated, stained glass, sky-lights, elevators, electric bells, etc., etc., and be hardwood finished, cost \$50,000, Jno. McFarland, contractor. For prison building for the State Industrial Reformatory, to cost \$500,000. It will contain 660 cells, be provided with steam-heating apparatus, sky-lights, elevators, electric bells, slate mantels, channels, beams, speaking tubes, etc., etc., and hardwood finished. None of the contracts have been let.

Texarkana, Ark.—Architect Chas. Ginocchi reports: Plans for a \$68,000 hotel building. It will have 125 rooms, elevators, electric bells, steam-heating apparatus, and all modern hotel conveniences.

York, Neb.—Architect Wm. A. Bell reports: Two structures begun and one just completed. Brick business block, at Seward, Neb., trimmed with stone and galvanized iron, for Jno. Zimmerer, cost \$10,000. Dwelling for Judge J. C. Post, of York, Neb., Queen Anne style, frame, five stories, with attic, cost \$9,000. Bank building at Fairmont, Neb., brick, one story, birdstone basement, cutstone and galvanized iron trimmings, cost \$3,000.

RUBBLE-STONE.
[At Cape Ann Harbor, Mass.]
UNITED STATES ENGINEER OFFICE,
33 FEMBERTON SQUARE,
BOSTON, MASS., September 25, 1885.
Sealed proposals, in triplicate, addressed to the undersigned, will be received until 12 o'clock, noon, on Monday, the 26th day of October, 1885, for delivery of about 122,500 tons of rubble-stone for the Harbor of Refuge, Sandy Bay, Cape Ann, Mass.
Persons desiring to make proposals for this work are requested to apply to the undersigned, at this office, for specifications, instructions to bidders, and the requisite blanks, and such information as may be desired concerning the same.
CHAS. W. RAYMOND,
Major of Engineers.

SCHOOL HOUSE.
[At Cincinnati, O.]
The Board of Education of the Fern Bank Special School District hereby advertises that it will open bids for the erection of a school house in Fern Bank, at 12 o'clock, noon, on Wednesday, the 21st day of October, 1885, at the office of the clerk of said Board, in the Purchasing Agent's office of the C., I. St. L. & C. R'y, Central Union Station, Cincinnati, O., at which place the plans and specifications will be on file on and after October 1, 1885.
Bids must be in accordance with the provisions of Section 3,988 of the Revised Statutes of Ohio.
The right to reject all or any part of said bids is hereby reserved.
GEO. TOZZER, Clerk.

SLATES.
[At Washington, D. C.]
OFFICE OF BUILDING FOR STATE,
WAR AND NAVY DEPARTMENTS,
WASHINGTON, D. C., October 1, 1885.
Sealed proposals for furnishing and delivering 10,000 purple roofing slates with rubbed faces and sawed edges, at the site of the building for State, War and Navy Departments, in this city, will be received at this office until 12 o'clock, noon, Tuesday, October 20, 1885, and opened immediately thereafter in presence of bidders.
Specifications, general instructions to bidders, and blank forms of proposal will be furnished to established manufacturers and dealers on application to this office.
THOS. LINCOLN CASEY,
Colonel Corps of Engineers.

PRICES OF BUILDING MATERIALS.

CHICAGO, October 10, 1885.

Common	Per M.
Chicago pressed (Anderson).....	22 00@29 00
St. Louis pressed.....	27 00
Purinton Kimbell "Standard".....	26 00
Indiana pressed.....	16 00@28 00
Philadelphia pressed.....	42 00@45 00
Milwaukee pressed.....	25 00
Tiffany Pressed.....	22 00@30 00
Trenton.....	38 00
Zanesville (Harris Bros.).....	29 00
Perth Amboy Buff.....	50 00
" " Mottled.....	50 00

Moulded:

Chicago (Anderson).....	\$65 00@300 00
St. Louis.....	50 00@125 00
Indiana.....	25 00@50 00
Tiffany.....	75 00
Zanesville (Harris Bros.).....	75 00

Enameled:

Enameled edge.....	90 00
Enameled edge and end.....	105 00
Enameled (Harris Bros.).....	80 00

CEMENT, LIME, ETC. Per Cask.

Chicago Lime.....	\$ 0 65@ 75
Wisconsin.....	96@ 1 00
Milwaukee, Utica, Louisville, Akron.....	1 00@ 1 25
Portland.....	3 25@ 3 50
Keene's coarse.....	7 50@ 9 00
Keene's fine.....	11 00@12 50
Plaster of Paris.....	1 75@ 2 00
Hair (cattle), per bu.....	20 00
Hair (goat), per bu.....	40 00
Sand (lake shore), per yard.....	1 00@ 1 25

STONE.
(Quotations furnished by J. S. F. Batches.)

Limestone:	Per cubic foot.
Buff Bedford.....	50
Blue Bedford.....	65
Hoosier blue Bedford.....	65
" " buff.....	50
Joliet.....	35@ 50
Lemont.....	40@ 50
Salem Oolitic.....	50

Foundation:

Dimension.....	20@ 25
Rubble, per cord.....	8 00
Sidewalk.....	40@ 1 00
Planed.....	40@ 1 00

Sandstone:

Hummelstown Brown Stone.....	1 50
Brown Connecticut.....	1 50
Amherst.....	60@ 75
Berea.....	55@ 65
Brown Potomac.....	1 25
Carbondell.....	1 10
Malone Blue.....	55@ 65
Long Meadow Brown Stone.....	55
" " Red.....	65
New York bluestone.....	1 35@ 1 40

Marble:

Italian, veined.....	4 00
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Marble, continued:

Tennessee, red.....	2 50@ 5 00
Tennessee, Knoxville.....	3 00
Vermont, white.....	3 50@ 8 00
Ophite.....	4 50@ 5 00
Armodite.....	1 50

Slate:

Roofing, Vermont, per square:	
Green.....	6 50
Purple.....	6 50
Red.....	13 50
Black, Lehigh.....	5 75@ 6 75
Black, Chapman's.....	7 30@ 8 00
Black, Bangor.....	5 50@ 5 80

LUMBER, CAR LOTS.
(Lumbermen's Exchange, 250 So. Water St.)

Boards: (Ordinary Dimensions.)

Pine, 1st quality, clear.....	\$46 00@48 00
Pine, 2d quality.....	45 00@47 00
Pine, 3d quality.....	43 00@44 00
Common.....	13 00

Siding:

Pine.....	10 50@22 00
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Framing Timber:

Pine.....	12 00@17 00
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Laths:

Pine.....	2 00
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Shingles:

Pine (sawed).....	2 10@ 2 60
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Miscellaneous:

Pickets, pine.....	9@ 21
Posts, cedar.....	9 00@21 00
Pine, yellow southern.....	30 00@35 00

HARDWOODS.
(Quotations furnished by The Holbrook Co.)

Walnut, 1st & 2d, 1 in.....	\$ 75 00@ 80 00
" 1 1/2 in.....	80 00@ 100 00
Walnut, counter top.....	15 00
Ash, 1st & 2d, 1 in.....	30 00@ 32 00
" 1 1/2 in.....	33 00@ 36 00
Maple, 1st & 2d, 1 in.....	30 00@ 35 00
" 1 1/2 in.....	35 00@ 40 00
Oak, white, 1st & 2d, 1 in.....	30 00@ 35 00
" 1 1/2 in.....	35 00@ 40 00
Oak, red, 1st & 2d, 1 in.....	30 00@ 35 00
" 1 1/2 in.....	35 00@ 40 00
Oak, quarter sawed.....	40 00@ 50 00
Cherry, 1st & 2d, 1 in.....	75 00
" 1 1/2 in.....	80 00@ 85 00
" 2 1/2, 3 & 4 in.....	95 00@ 100 00
Beech, Red, 1st & 2d.....	25 00@ 30 00
Whitewood, 1st & 2d, 1, 1 1/4, 1 1/2 & 2 in.....	26 00@ 30 00
" 2 1/2, 3 & 4 in.....	32 00@ 38 00
Birch, red, 1st & 2d.....	35 00@ 40 00
Butternut, 1st & 2d, 1 in.....	45 00@ 50 00
" 1 1/2 in.....	50 00@ 55 00
Sycamore, 1st & 2d.....	20 00@ 25 00
Gum, red, 1st & 2d, 1 in.....	25 00@ 30 00
" 1 1/2 in.....	35 00@ 40 00

FINISHING WOODS.

Mahogany, Mexican, per lb.....	15@ 20
Mahogany, St. Domingo, per lb.....	20@ 25

Finishing Woods, continued:

Mahogany, Cuba, per lb.....	12@ 20
Rosewood, per lb.....	5@ 15

CALIFORNIA WOODS, ETC.
(Quotations furnished by Charles B. Crombie & Co.)

Redwood lumber.....	\$60 00@65 00
Redwood shingles—square, hexagon, round, diamond and octagon, small quantities.....	6 50@ 7 00
Mexican Spanish cedar.....	150 00@300 00
California pine.....	65 00@ 75 00

Georgia Yellow Pine:

Flooring:	
1st & 2d clear, 4 in.....	35 00
1st & 2d clear, 6 in.....	35 00
Boards, D 1 s.....	33 00@ 35 00
Beaded Ceiling:	
1st & 2d clear, 3/4 in.....	18 00@ 21 00
" 1/2 in.....	26 00@ 30 00
" 3/4 in.....	33 00@ 36 00
Step plank:	
1st & 2d clear 1 1/4, 1 1/2 & 2 in.....	33 00@ 35 00

Georgia Cypress:

Lumber, 1st & 2d clear.....	35 00@ 40 00
Shingles.....	3 75@ 4 25

Frame Oak Lumber and Timber:

Plank.....	23 00@ 25 00
Timber.....	24 00@ 30 00

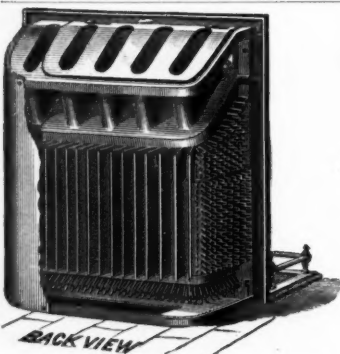
PAINT, ETC.

	Dry.	In Oil.
White lead (American).....	6	6 1/4
Zinc, white (American).....	8@10	10@ 12
Red, Venetian.....	2@	6@ 12
Red, Vermilion.....	20@50	40@100
Red, Indian (English).....	12@	22
Yellow, Ochre.....	2@	15
Yellow, Chrome.....	18@	25
Green, Chrome.....	12@	20
Green, Paris.....	20@	35
Black, lamp.....	8@	30
Blue, ultramarine.....	16@	35
Putty.....	1@	3
Whiting (dry).....	1@	2
Paris white (English).....	2@	3
Litharge (American).....	6@	10
Sienna, burnt.....	9@	16
Umber, burnt.....	7@	16
Oil, linseed (raw), per gal.....		43
Oil, linseed (boiled).....		46
Turpentine.....		40
Varnish, coach.....	1 25@	2 00
Varnish, shellac.....	3 25@	4 00

HARDWARE.

Nails:	Per Keg.
Spikes, wrought.....	\$4 00
Tenpenny, common.....	2 75
Shingle, 4 s.....	3 50
Lath, 3 s fine.....	5 75
Steel nails, 10's to 60's.....	2 85

For steel nails add 10 c. per keg.
For finishing-nails add \$1.50 per keg.
For casing-nails add 75 c. per keg.



The grate is situated in the parlor, 15x14 feet, with which communicates a sitting-room, 17x14 feet, which is used as a bed-room. The grate has kept the air pure, and there has been no frost nor frozen flowers, nor any severe cold in our house the whole winter.
EDWIN L. KIMBALL, M.D., Jackson.

The grate thoroughly warms and ventilates a room 16x14 feet when the mercury ranges from 30° to 40° below zero. In more moderate weather it also warms a second room, 12x14 feet.
JOSEPH RIPLEY, Sault Ste Marie

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J. H. PENMANN, Battle Creek.



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	Days' test.	Minimum Breaking Strain.	
		Per sq. centimetre	Per Eng. sq. in.
Neat "Star" Cement,	7	40 kilos.	568.9 lbs
do do	28	50 "	711.1 "
1 Cement and 3 Standard Sand	7	15 "	213.3 "
do do	28	20 "	284.4 "
1 Cement and 6 Standard Sand	7	6 "	85.3 "
do do	28	10 "	142.2 "

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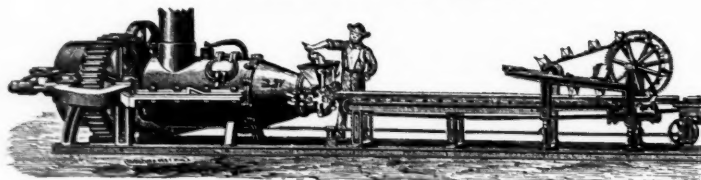
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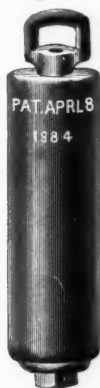
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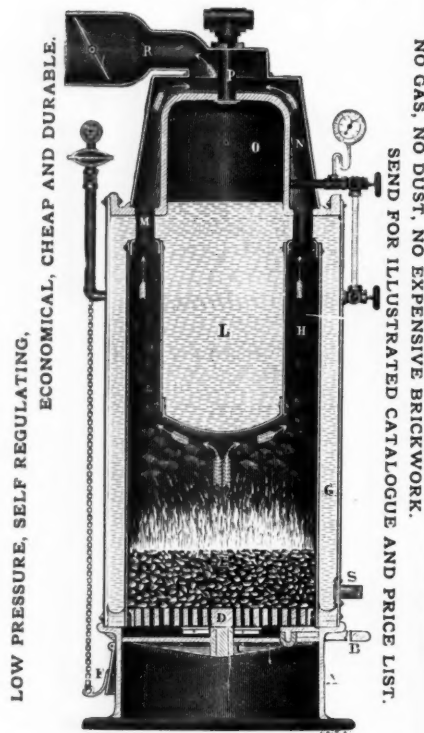
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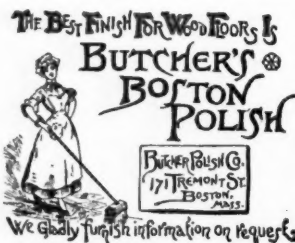
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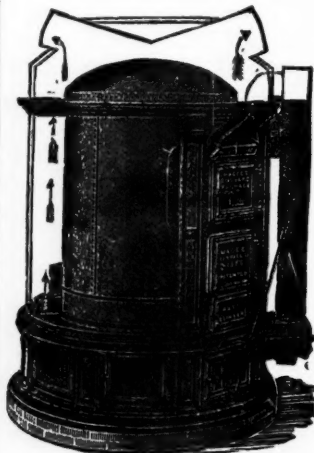
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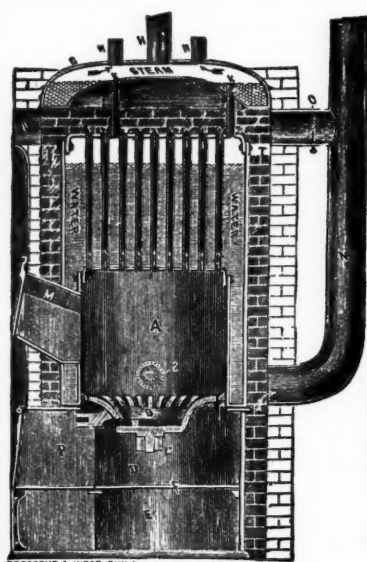
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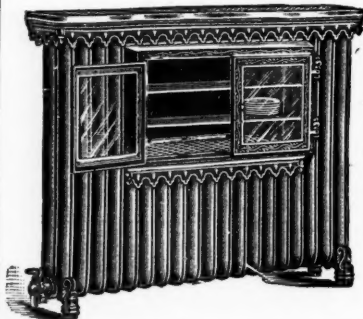
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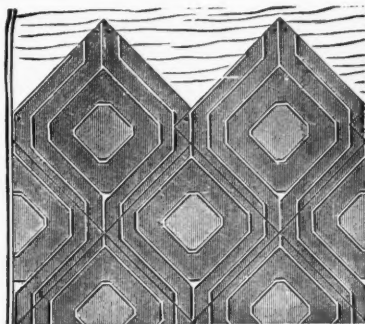
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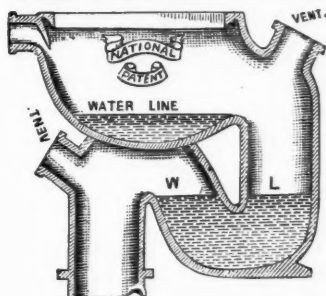
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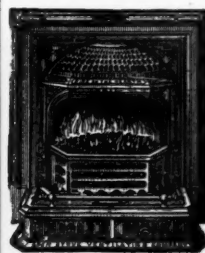
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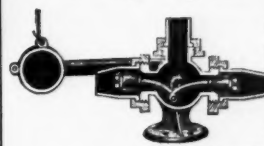
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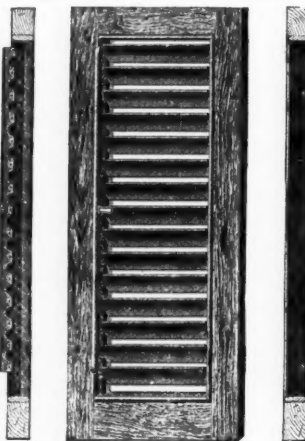
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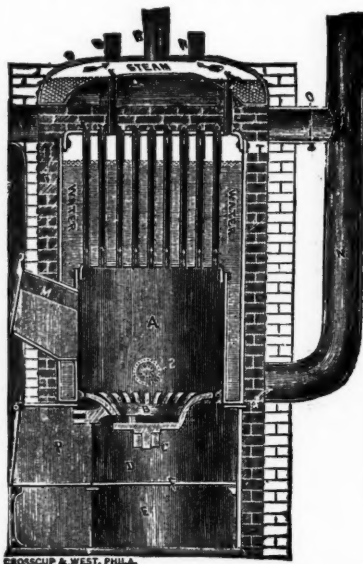
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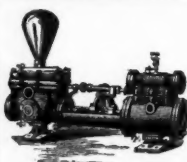
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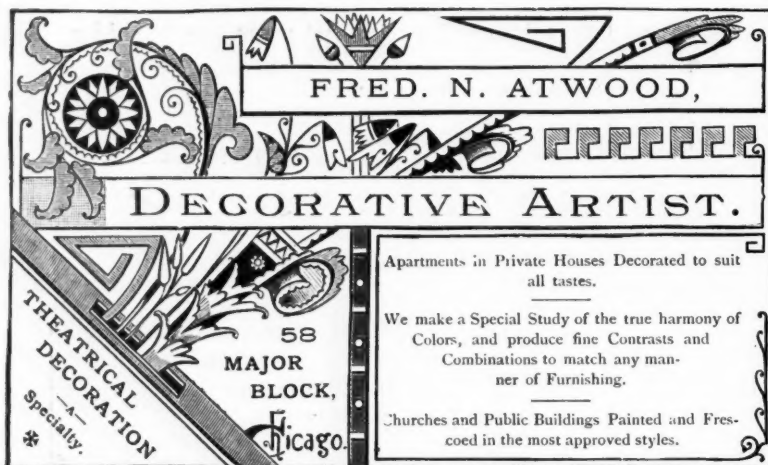
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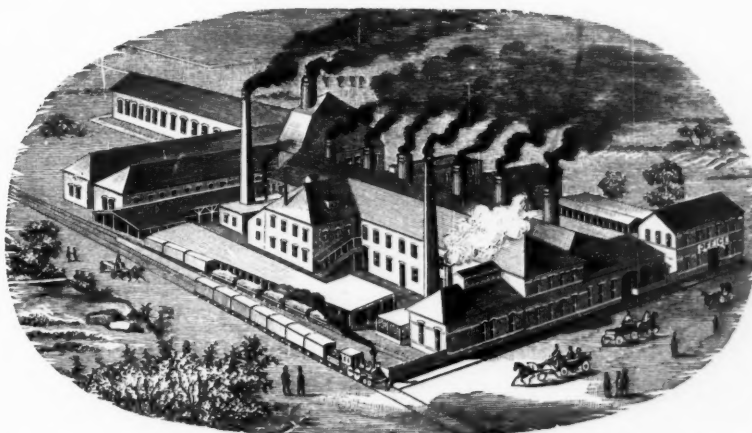
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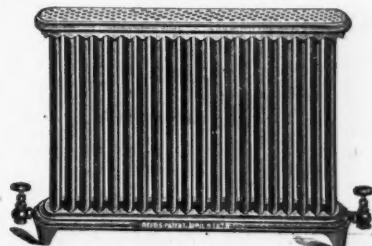
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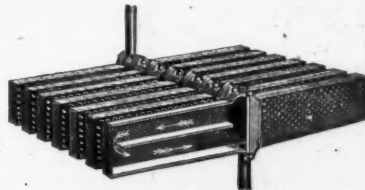
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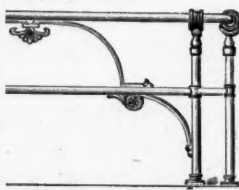
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