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132 Market Street, San Francisco.

No. 00408 A Pulley.
Page 12 in 1890 Supplement.
The above cut shows the Norris Pulley as it appears in the frame. This Pulley is made so that the Rope cannot possibly leave the wheel.

The California Architect and Building News.

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SAN FRANCISCO, CAL.

VOLUME XI.

AUGUST 20, 1890.

NUMBER 8.

The California Architect

and Building News.

A monthly Journal devoted to the Architectural interests of the Pacific Coast. Published on the 15th of each month by THE CALIFORNIA ARCHITECTURAL PUBLISHING COMPANY, 408 California Street, San Francisco, Cal.

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OLIVER EVERETT, Secretary.

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THE OCTOBER ISSUE.

Our regular October issue will be an unusually large one, and we propose to make it a remarkably interesting and valuable number; the price of single copies of the issue will be fifty cents.

NOTICE.

MR. George H. Wolfe, having no further connection with the business of this journal, correspondents will in future address their communications to the California Architect and Building News, 408 California street, San Francisco, Cal.

NOTICE OF MEETINGS.

SAN FRANCISCO CHAPTER, AMERICAN INSTITUTE ARCHITECTS, meets second Friday of each month at 408 California Street.

SETH BABSON, Pres.

W. P. MOORE, Vice-Pres.

OLIVER EVERETT, Sec.

JOHN W. CURTIS, Treas.

TECHNICAL SOCIETY OF THE PACIFIC COAST, meets first Friday of each month at 408 California Street.

JOHN RICHARDS, Pres. PROF. FRANK SOULÉ, Vice-Pres.

OTTO VON GELDERN, Sec.

JAS. SPIERS, Treas.

THE regular monthly meeting of the San Francisco Chapter of the American Institute of Architects was held Friday evening, August 8th.

President Babson in the chair.

Geo. A. Bordwell was elected to fellow membership.

The awards in the monthly competition of the A. I. A. Sketch Club for hall clock were made as follows: H. J. Van Vlack, first mention; S. C. Benson, second; and Jos. W. Rowell, third.

Mr. George H. Sanders entertained the society, and the A. I. A. Sketch Club, (whose members were present by invitation) by an instructive talk on *How to Study Architecture*.

An invitation was extended to Prof. Keith, the electrician, to read a paper before the Chapter explaining the details of electric motors as applied to running elevators.

Several nominations for officers for the coming term were made, and then, owing to the lateness of the hour, the meeting adjourned for two weeks, to complete unfinished business.

THE regular monthly meeting of the American Institute of Architects Sketch Club was held on Friday evening, August 8th.

Mr. C. E. W. Hubbell and Herbert Lowery were elected members of the club. The application of Harvey E. Harris for membership was received and referred to the investigating committee.

A communication was received from the Chapter extending to the club a cordial invitation to attend the lecture to be given by M. G. H. Sanders. Moved and seconded that a vote of thanks was tendered the Chapter, carried unanimously.

The usual routine of business being transacted the drawings for the August competition (subject, A Country Chapel) were examined by those present. A Yacht Club House was selected as the competition for October. Required plan and perspective rendered in Sepia with a brush. Competition closes October 9th 1890.

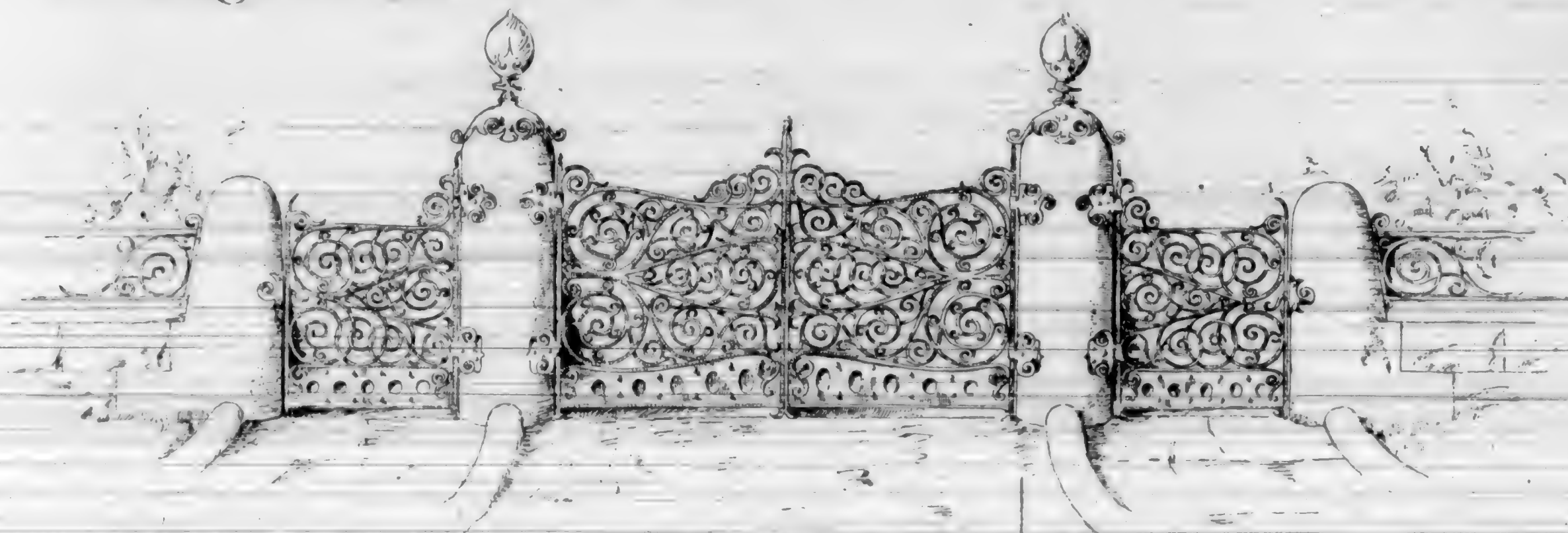
The members then retired to the Chapter rooms to listen to the lecture by Mr. Sanders which was very instructive and which was highly appreciated.

THE California Electrical Society held their two last meetings in their new apartments in the Murphy Building. The principal topic under discussion at the first meeting was electrical discharges from clouds. Many useful points were developed in relation to the security afforded buildings by the use of lightning rods. At the second meeting the subject being induction many of the members entered into the discussion. This society is taking in new members at each meeting.

THE meeting of the Technical Society of the Pacific Coast was held on August 15th at their rooms, 408 California street. The principal business was the reading of a paper by the President, Mr. John Richards, on "balancing centrifugal pumps." An interesting discussion followed the reading of the paper.

THE Amateur Photographic Association gave their eleventh public entertainment at Pioneer Hall on July 31st. The subject, "Illustrated Chicago" being well represented by the lantern and an explanatory address by the speaker.

Wrought Iron Gate.
Wrought Iron Gate.



THE SCROLL, THE STAR AND THE CITY.

A paper read before the S. F. Chapter of Architects, July 1890. By W. J. Cuthbertson.
 (CONCLUDED.)

Man being a gregarious animal it is necessary that quantities of men should associate together, not only in their business but also in their abiding places; this becomes a habit, and conglomerations of human beings are the consequences. Notwithstanding the periodic outcries of humanitarians, this consolidation of humanity and consequently of its habitations has been going on through the centuries, until we come to the final development of it in our modern city. It is useless to try to stem the course of this natural habit and wish of man, and therefore it becomes necessary for us to mitigate the severity of its consequences, and finally to hit upon a plan by means of which what appears now to be a curse may become a blessing.

In the course of the evolution of the city, we come across quite a number of different types:

1. We have first the African Kraal, simply a crystallized nomadic encampment, the huts thrown together indiscriminately without order and without plan—the Anarchic type—therefore nothing to learn from this.

2. The ordinary nucleus of an inland town has been some stopping place along a main road of travel, which gradually accreted itself, running out small feelers or feeders in all directions, these generally following the cow paths of the adjoining country—which especially for hilly parts will generally be found the most practicable.

The animal kingdom is given to us for an example as well as for other uses, and in this case the bovines teach us by the paths picked out and made by them to reach their pastures, the most expeditious and least wasteful way of doing this. On the slopes of hills we always find them following the contours of the hills and not making any direct ascents or descents unless absolutely necessary, and we may get some idea even from a cow. Another member of the animal kingdom, the spider, may also teach up a lesson in laying out towns and means for communication, who weaves her web in such fashion that the radiating lines allow her to dart out after prey in short order.

In the inorganic world the section of a tree has also the rings and the radiating lines, but the types I have taken are geometrical, one also being celestial and the other gravic.

These figures, the star and the scroll, have been taken as the guiding principle in designing or laying out a town, and their adaptability will be examined after we have considered the modern type of a town patterned after the rectangular, peculiarly American system. In this there is a formality and stiffness which can be called anything but beautiful. But even leaving on one side its artistic incapacity, we find it greatly lacking in that principle which the moderns pride themselves so much on—utilitarianism or practicality. Economy, another science modern society so unjustly plumes itself upon understanding and possessing, is sadly lacking in this plan.

As you are aware in traveling from one point to another in a town laid out in the rectangular plan, you are compelled to travel along two sides of a triangle instead of along its hypotenuse.

This waste of time and labor is very apparent when one is traveling in the country, where your journey's end may be seen but a short distance to one side of you, but you are compelled to deviate from the direct line to it until you become abreast of it and then have to turn at right angles within an infinitely small part of a second backward; but ranchers who use the road constantly would rather be inconvenienced that way than have their ranches cut in two, but in towns that objection doesn't hold. In fact, the only mitigating circumstance seems to be that the surveyor's art is made more simple and easy, but the surveying is done only once while the locomotion is continuous.

The before mentioned waste of time and energy is even added to should the town be situated on hilly ground as in San Francisco, where one has to go up and down hill over and over again in a reckless manner to reach a point which may be nearly on the same level with the starting point.

I believe the rectangular type of town has been in use since the days of George Washington, sometimes in a pure state and at other times with sundry modifications made to help a little the inconveniences mentioned above, such as a few radiating lines for main outlets, cutting the rectangular system arbitrarily, or such as that adopted in the eastern one-half of San Francisco of one main artery with blocks at right angles to it on one side and blocks at some other angle on the other.

Taking everything into consideration, I believe we shall find the mapping of the old towns which have grown up like Topsy, haphazard and shiftless, on the lines of the old generally direct ways of travel more convenient at least for purposes of communication than the modern rectangular blocked city. But this type of city being as one might say anarchistic, i. e. put together without any guiding principle or law, it cannot be taken as a pattern throughout, but only so far as it should accidentally coincide with some law of arrangement. But a number of good points can be taken from it.

In applying any of these examples we find that non-elastic rule will not work with advantage, as the contours of the ground, proximity of the seaside harbor, etc., require modification, and therefore what we want is some system that can be easily modified to suit these abnormal conditions, and yet at the same time retain its guiding principle intact. These conditions are fulfilled, I think, in the plan based on the star and scroll forms. However, before we go into any detailed description of this ideal town, I will bring to your notice an existing instance of an adaptation of that plan.

In Barcelona here represented, (see Figure 1) each block forms an irregular octagon, otherwise the plan is based upon the rectangular system. Clipping the corners off in this way eased the inconveniences somewhat of that system, but still leaves the aspect matter untouched. However, the large open spaces at the intersection of the streets,

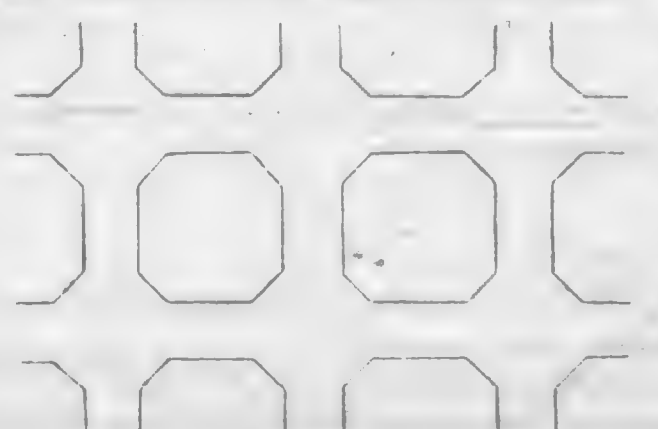
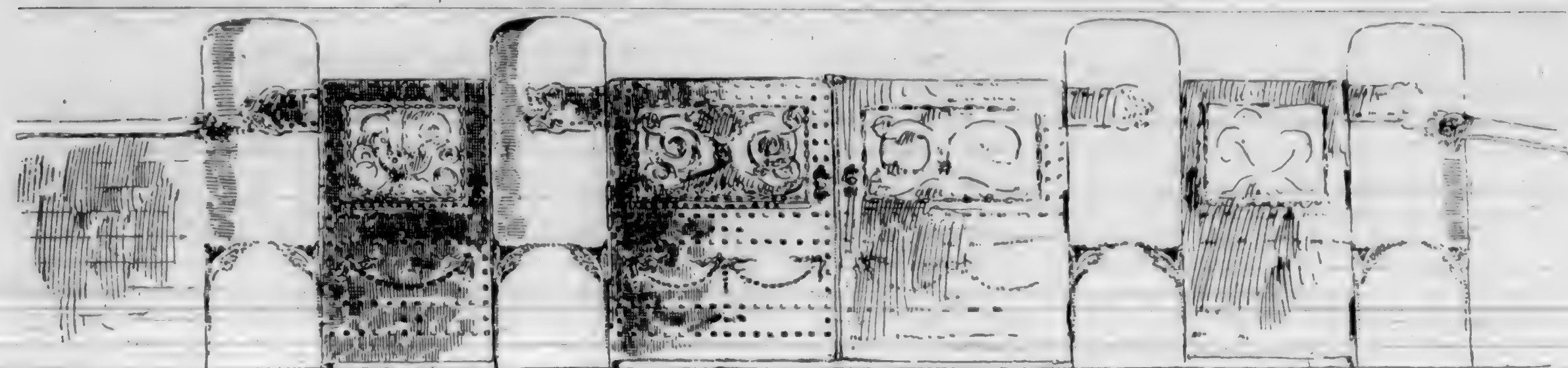


FIGURE 1.



SECOND MENTION.

WROUGHT IRON GATE.

H. J. VAN BLANK.

give plenty of light and air and the chance of getting a partial diagonal.

We will now glance at the objection to the rectangular system, and then see whether we can mend matters by the adoption of the scroll and star.

Take it all in all, I think that a no more objectionable form than the rectangular could be adopted for a city where plenty of space is available. Its adoption, no doubt, is due not by reason of its adaptability for laying off a method of connecting a conglomerated mass of habitations, but by the mania existing about the time of the Revolution, or immediately after, for doing everything by hard and fast rules and regulations. To practical men used to the simple surveying adopted in laying out the virgin lands of the new world, what came to hand so well as the same method for laying off a town. And how methodical, proper and correct it looked on paper—blocks all exactly same size, angles all similar, and those all right. No other system was it possible to introduce into the ruling minds of that period, and when once adopted, the natural inertia of humanity has never thought of change until now, when activity and boldness of intellect and life of artistic sense are the worthy characteristics of the generation and age.

The objections, then, are chiefly these:

1. Monotony of aspect.—The houses of every block facing the same points of the compass as those of the others, there remains no chance of getting variety of sunlight or of wind protection. This is aggravated by the absurd devotion to the cardinal points, causing generally the streets to run north and south, or east and west; thus giving one-half the houses with one front constantly without sun, and the other half getting the sun on the front and back during his weakest moments; i. e., early and late in the day.

2. Monotony of prospect.—A man has no choice of prospect, the houses all facing the same way, and is debarred from living in a house facing a different way from the general run, and therefore has to put up with the prospect the system turns up and no other.

3. Worst possible means of horizon travel short of going absolutely backwards.—This has been already adverted upon.

4. Bad means of vertical travel.—The roads being arbitrarily laid out without reference to contours, cannot but necessitate the unnecessary going up in one place to go down in another. This does not apply to a town laid out on a prairie like Chicago—where it is necessary to have tall buildings to know that there is any town there.

These unmitigated obstacles to enjoyable life in a city, lead one to ponder on a means of deliverance, and I suggest the scroll and the star as such; the scroll being almost constantly before an architect's eyes when looking down, and the star being in the same condition nearly half the time when looking up. What more natural than that these forms should suggest themselves?

The scroll, when started from its centre, can be carried out into infinite space, a fit emblem for the capacity for infinite progress in the human soul.

The star, with its rays starting from its centre, likewise shooting out infinitely—a fit companion to the scroll—both typical of infinite progress. Such noble types are worthy of study and worthy of adoption for suitable purposes, and I think you will find them applicable for our present purpose "The mapping or arrangement of human habitations in bulk."

1st. They both have a centre, necessary to communal life as the heart to the body. This centre would be the location for the common meeting hall and municipal buildings—including all the Government buildings—head postoffice, telegraph office, telephones and all other buildings necessary for a proper municipal system.

Here would also be the common unsectarian church, opera house, theatres, cafes, etc., and the main distributing stores and hotels for strangers all grouped around this large central space, its nearest representations being the large places in Paris.

2nd. From this central circus, place, or plaza, would radiate in straight lines the roads or rays of the star. These would only be used for purposes of communication, being supplied with cable cars. No residences would be allowed on these avenues, but only local distributing stores, local post and parcel offices, etc., and manufactories, at a decent distance from the centre. At the end of these roads would be the car houses, steam power houses, etc.

3rd. The scroll roadway would be the wide driveway planted with shade and fruit trees and clear from all car tracks, commencing from the centre and running in one curved line to the outskirts of one township to that of the next. This would be the residence street, and as it got out into the suburbs the spaces between the road would widen out, and would be used for the larger residences, gardens, etc.; and as it got still further out from the city, for fields and orchards, until the next township commenced. The large diamond-shaped spaces between the circular townships, would be used for pasturage and for large parks for the recreation of the people.

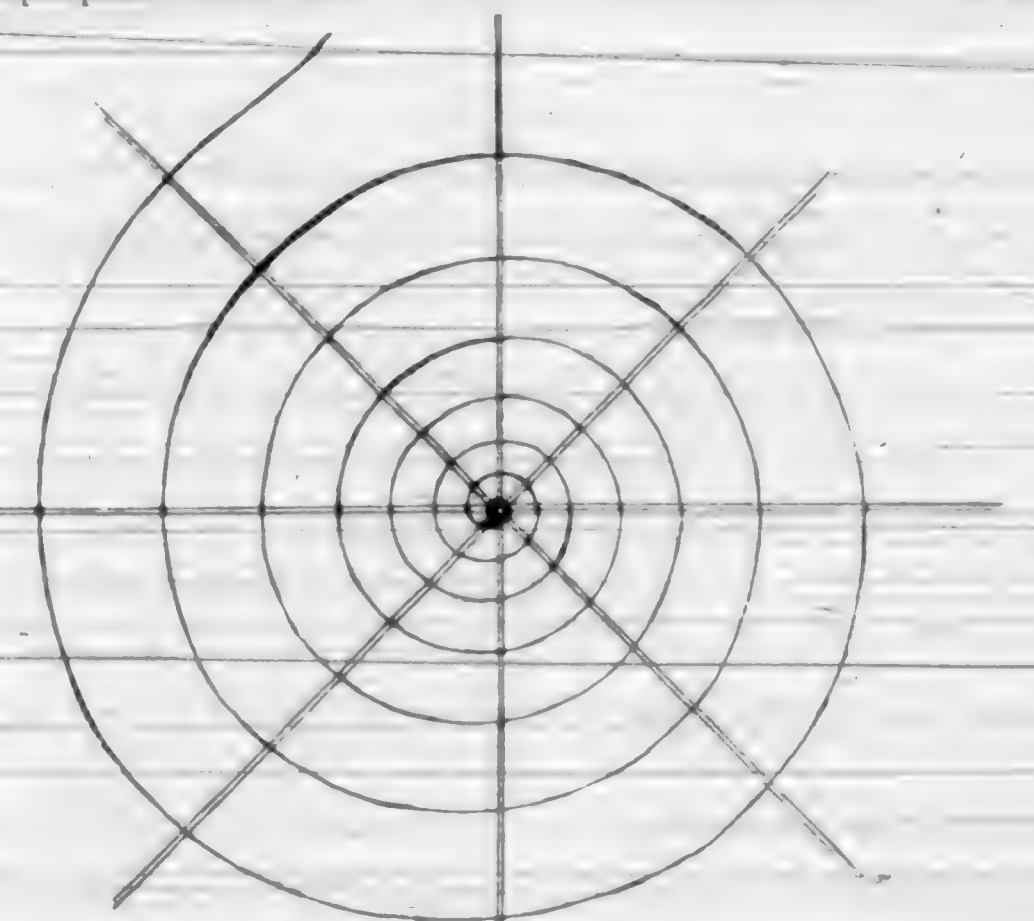


FIGURE 2.

All the manufactories and warehouses being on the radiating lines, freight would be carried on the cable freight cars, or a special freight cable could be used alongside the passenger one. No residences being on these avenues, the hideous and constant noise attending the running of cable cars would be an undisturbing element, and as the scroll residence road would be paved with bituminous rock or some other quiet-conductive material, peace would reign supreme amongst the domiciles, although the advantages of city life would be so close.

On this road would run a constant succession of Gurney cars or stages both ways, so that in rainy weather or for old or feeble people, they would carry the inhabitants to the nearest radiating avenue and its cable cars.

Thus every house throughout the whole town and township would be supplied with means of travel from its own doors to any part of the world.

On a plain this system would work to perfection, but on a town of many hills, which concerns us of San Francisco, some modifications would have to be made. In this case the scroll road would not be a true scroll, but would be a continuous.

broken curved line following the contour of the hills, giving splendid easy drives, while the radiating avenues would still be continued in straight lines over all obstacles for cable cars. Under this system no scars would be made on earth's breast, but it would be left in its pristine state and the street grader's occupation would be considerably reduced, together with all the squabbles and Commissioners attending the same. By following the contours, big and little, lots would be formed to suit all purchasers.

Each house would have a different aspect and prospect and be got-atable with the least possible expenditure of labor.

The enumeration of the houses could also be carried out to perfection; numbering from the centre outwards, each house would have its own number on the spiral road. The stellar avenues could be numbered in the San Francisco style.

Adaptations of these ideal figures can easily be made when dealing with a town located on the sea coast or harbor, but you will find in all cases that the scroll will answer without any material change.

An approximation to the spiral form is found in the circular or elliptical lines represented in the maps of old European cities, where the enciente of the fortifications gave that form to many of the streets. In this case, however, there is lost the continuous line obtained by the spiral.

Literature not being my profession, any angularities of style as long as they do not interfere with the meaning must be forgiven.

This paper is meant really more to contain hints than anything else, and any objection against this scheme I hope will be freely expressed; for by that means only may these papers be of benefit.

An interesting discussion followed the reading of the paper, which our limited space will not allow of us reporting this time.

LEGAL INFORMATION.

NEGLIGENCE IN WALKING ALONG THE STREET.—Where one was walking along the street, fell into an area way which was not guarded, nor was there anything to call his attention to it; but could have been seen by looking at it, he was not as a matter of law negligent in not seeing the opening.

Matthews v. City of Cedar Rapids, Supreme Court of Iowa, 45 N. W. Rep. 894.

GOODS SATISFACTORY TO BUYER.—When one party agrees to do a thing to the satisfaction of another, and the excellence of the matter is a matter of taste, as a design for a draft, a piece of furniture, or a suit of clothes, the employer may reject it without assigning any reason for his dissatisfaction.

Gray v. Alabama Nat. Bank, City Court of New York, 10 N. Y. Sup. 5.

BUILDING CONTRACT AND SUBSEQUENT PURCHASERS.—Plaintiff loaned money upon some buildings in process of erection under a contract that he should be at liberty to foreclose at any time if the completion of the buildings was unreasonably delayed. Such agreement was legal and valid between the parties, and also against all persons who dealt with the property with notice of its existence.

Metropolitan Life Ins. Co. v. Hall, Supreme Court of New York 10 N. Y. Sup. 196.

JOINT BUILDING CONTRACT.—When one contracted with an architect to furnish plans for a building, and told him that he and his father-in-law were building it together, and the architect so entered it in his books, the contract is a joint one and the defendant is not liable on a several recovery.

Van-Leyen v. Wieford, Supreme Court of Michigan, 45 N. W. Rep. 1116.

COVENANT IN DEED CONTROLLING THE MANNER OF ERECTING BUILDINGS.—Where a parcel of land is subdivided into lots shall be built on a certain line and of a certain height, and the city built on one of the lots contrary to the covenant. It will be liable in damages to a lot-owner whose easement is thus injured.

Ladd v. City of Boston, Supreme Judicial Court of Massachusetts, 24 N. E. Rep. 858.

Mosser & Cuthbertson have sent plans down to Guatemala for several two-story dwelling houses to cost about \$5000 each. They have also prepared plans for O. T. Davis, Florence, Arizona, for stone, brick and wood ranch house, costing \$5000.

NOTICE TO CONTRACTORS.

Sealed proposals will be received at the Office of the Supervising Architect, Treasury Department, Washington, D. C., until 2 o'clock P. M., on the 10th day of September, 1890, for all the labor and material required for excavation, concrete foundations, stone and brick work of the basement and area walls of the U. S. Post Office, etc., building at Sacramento, Cal., in accordance with the drawings and specification, copies of which may be had at this office or the office of the Superintendent at Sacramento, Cal.

Each bid must be accompanied by a certified check for \$500. The Department will reject all bids received after the time fixed for opening the same; also bids which do not comply strictly with all requirements of this invitation.

Proposals must be sealed and endorsed, "Proposal for excavation, concrete foundations, stone and brick work of the basement and area walls of the U. S. Post Office, etc., building at Sacramento, Cal.," and address to,

JAS. H. WINDRIM,
Supervising Architect.

August, 7th, 1890.



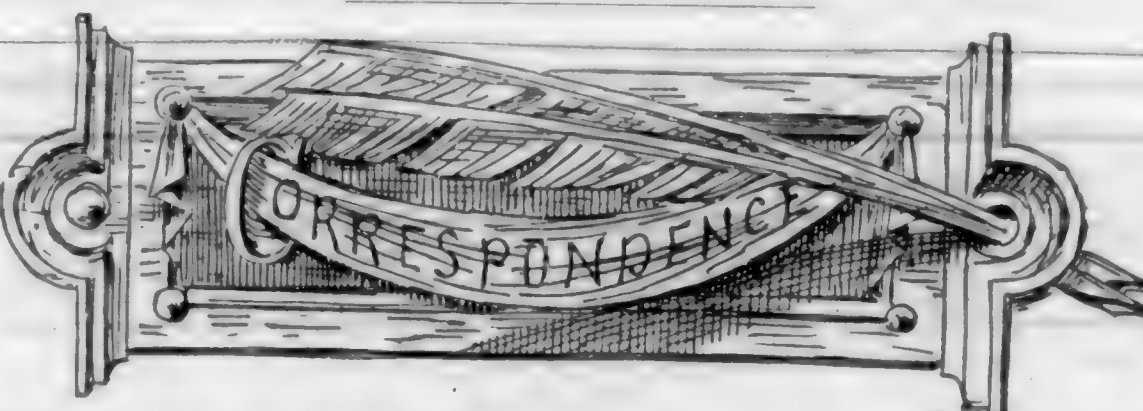
The management of this journal desires to extend a cordial invitation to all Architects on this Coast and elsewhere to contribute designs for publication.

Drawings should be made with perfectly black lines on a smooth white surface. Good tracings, if made with black ink, answer the purpose.

The designs selected will be published without charge. All drawings, whether accepted or not, will be returned to their authors, who must bear express charges both ways.

The double plate shows the accepted design for the new City Hall and Court House, Salt Lake City, from the drawings of the architect, C. E. Apponyi. The fronts are to be of two different kinds of stone, rock-faced, and the construction fire proof throughout.

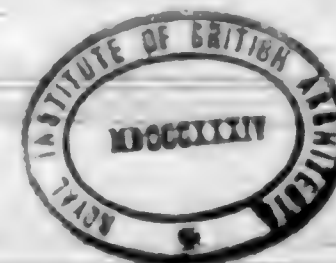
The artotype of the California State Bank at Sacramento (of which a more extended description appears elsewhere) is to be credited to Curlett & Cuthbertson, architects.

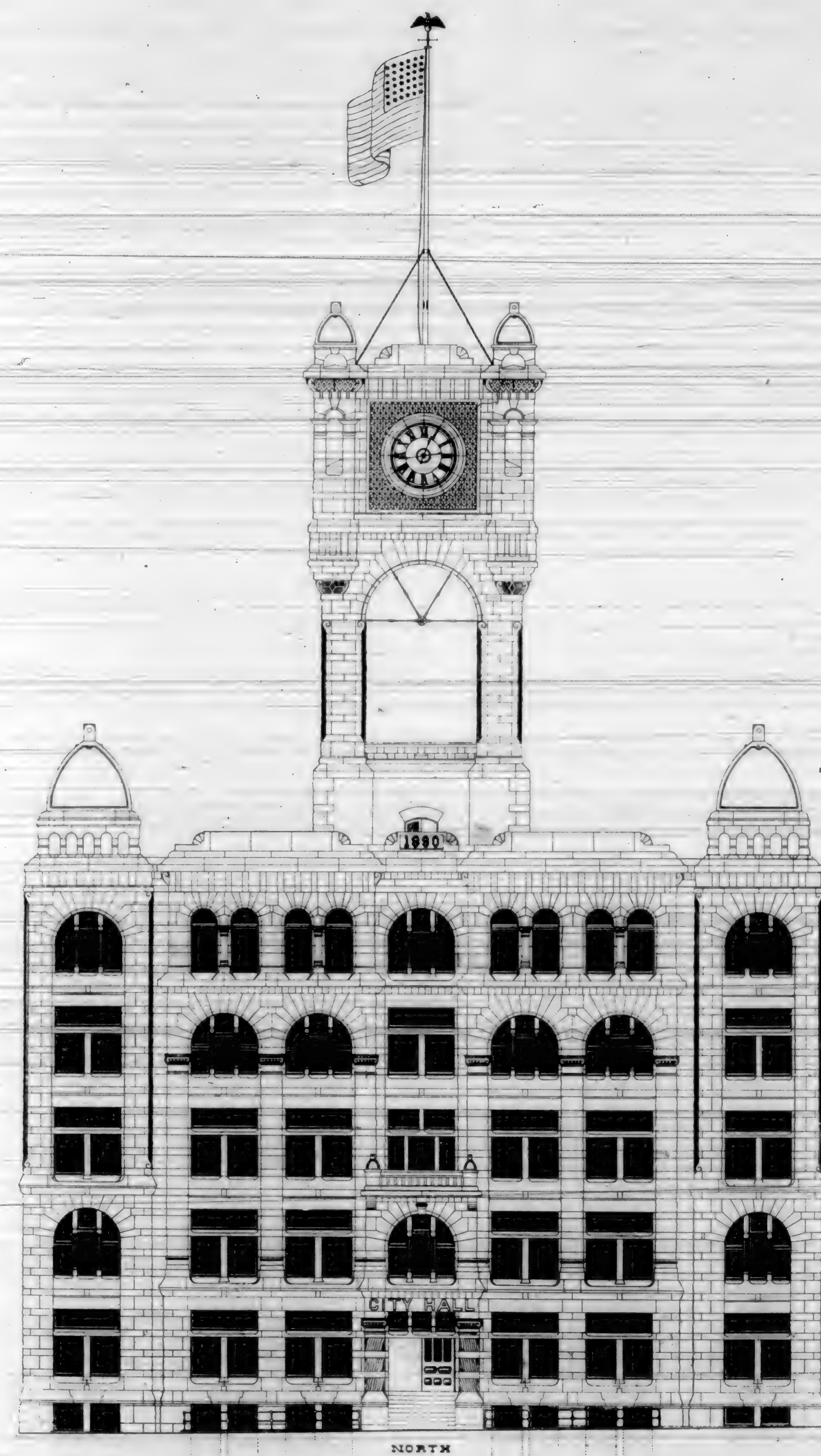


TO EDITOR CALIFORNIA ARCHITECT:

Sir:—It is too bad that the Supervisors did not heed the protests from all sides against the Bush and Market street engine house; and thus another blunder will be made which will be cursed by our children as much as the present generation curses the short-sightedness of our fathers in covering up with buildings what should have been our City Hall Park, and destroying an approach equal to any in the world.

Now another of our few down-town open spaces is gone from us—and what could have been made a delightful little rest with the \$25,000 fountain in the centre which our deceased esthetic minded fellow citizen, Merwyn Donahue, had presented to the city for that spot—and a little grateful shade and green around, is now given up to the tender mercies of a fire engine station and its attendant annoyances. A forbidding looking fortress, striking fear into the quailing heart of the incoming stranger, instead of inviting him onward with pleasant attractions to the more pleasurable part of the city.

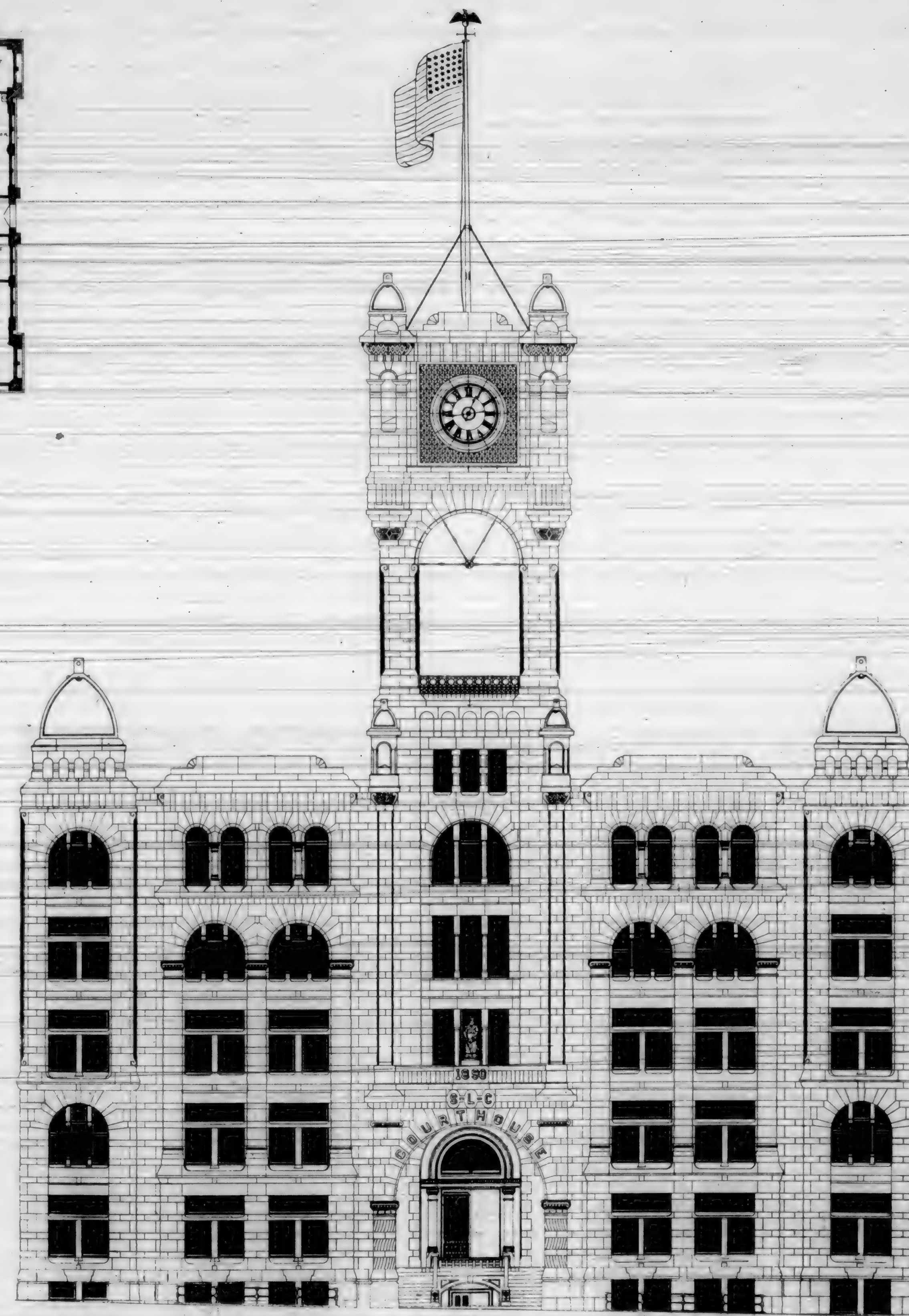




NORTH



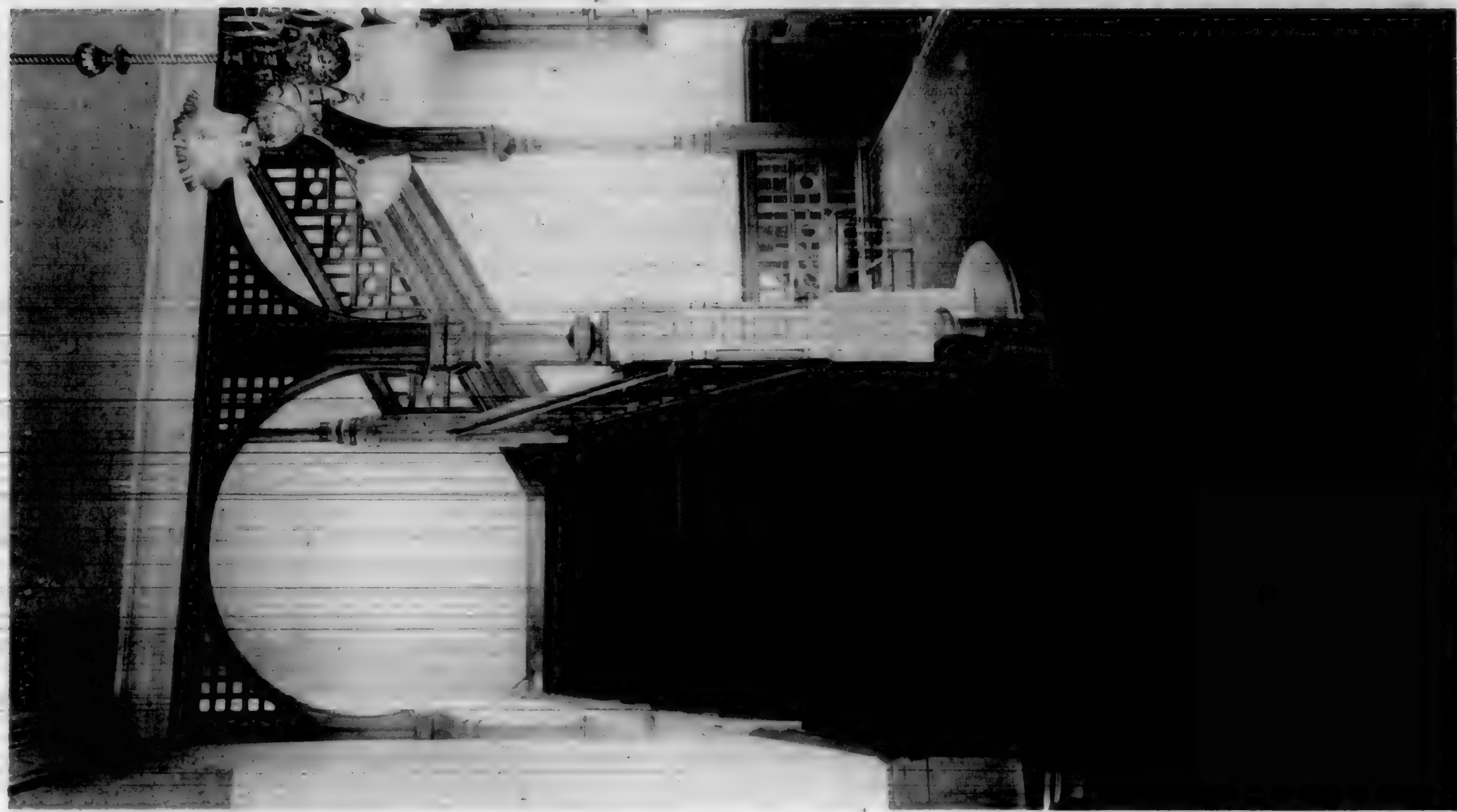
SECOND FLOOR



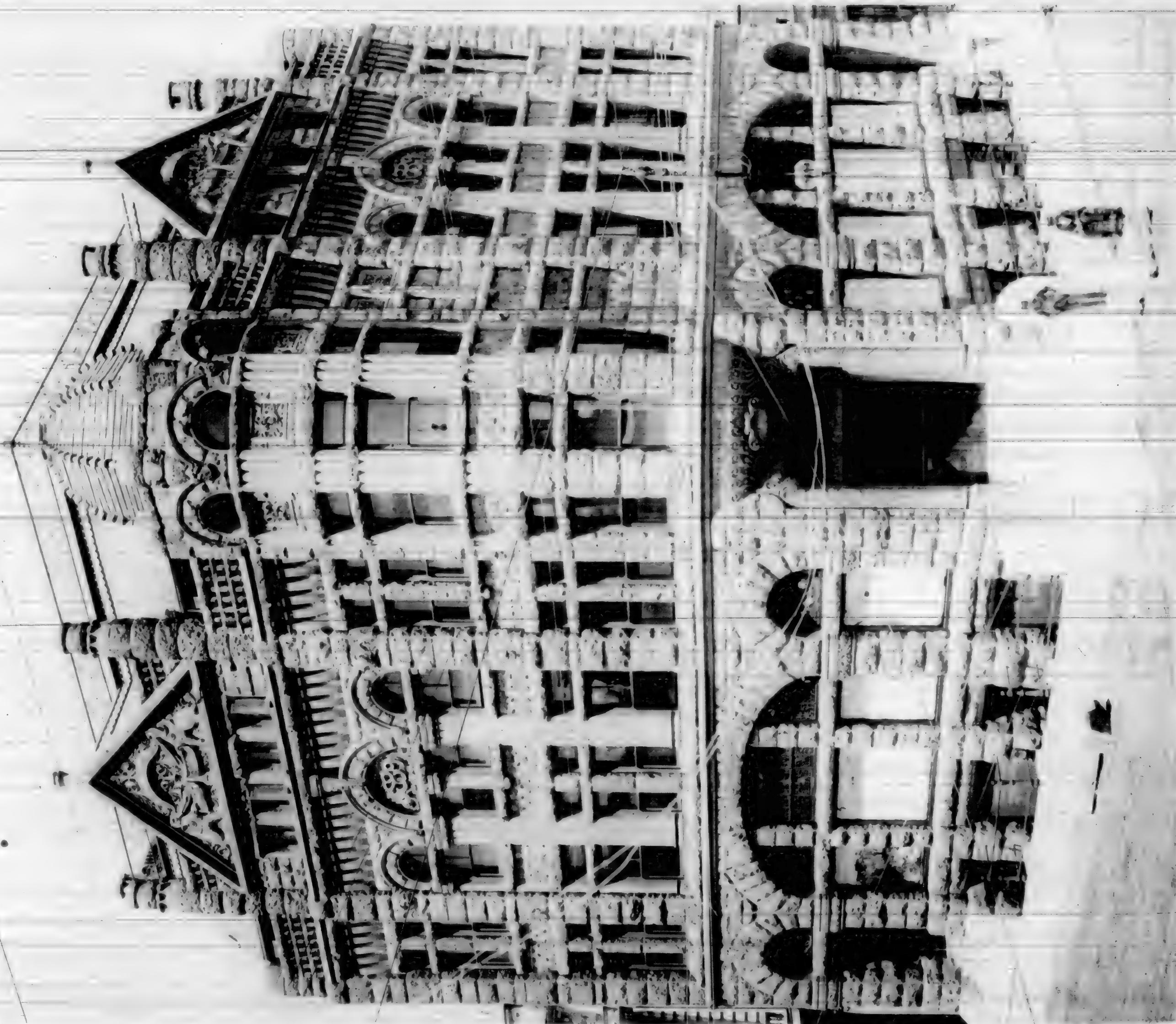
WEST

NEW CITY HALL & COURT HOUSE
SALT LAKE CITY

C.E. APPONYI
ARCHITECT.



HALL.



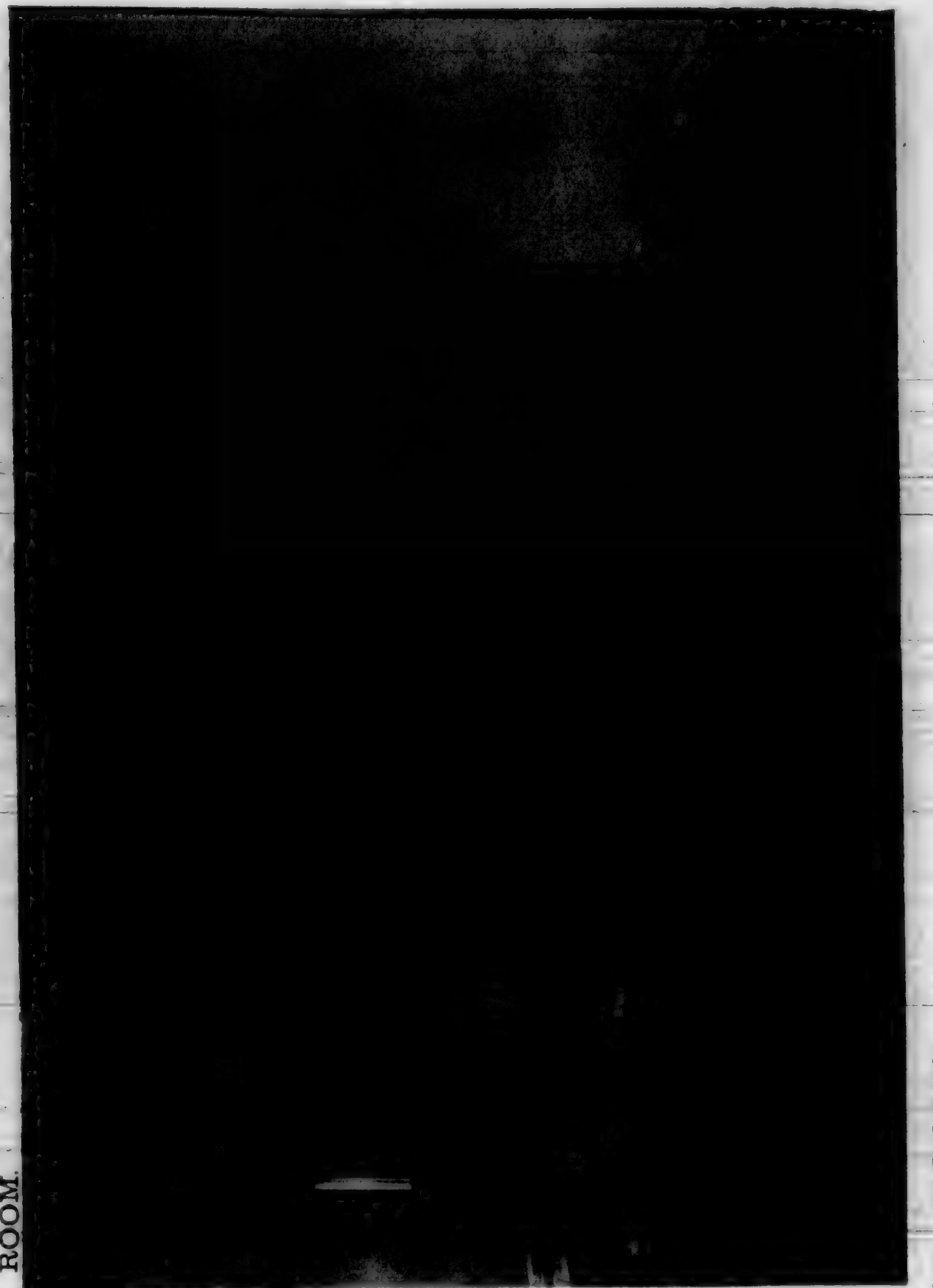
PERSPECTIVE VIEW.

CALIFORNIA STATE BANK,
SACRAMENTO, CAL.



CURLETT & CUTHBERTSON,
Architects.

BANKING ROOM



DINING ROOM



BILLIARD ROOM

SUTTER CLUB ROOMS.

Power & Son,
Architects.

ST. ANDREW'S CHURCH, Kingston.

DESIGN FOR A CHURCH.

From the Canadian Architect.

But what can be said to our erring municipal authorities, when we find the State looking on with uninterested eyes upon the wanton waste and destruction of the very few redwood groves, those pleasant oases, left to us.

Look at the energy wasted by our State Representatives in pushing lunatic asylum buildings and spending millions thereon, while a paltry \$100,000 to condemn and buy up a few of our remaining redwoods for the benefit and recreation of the people, would be met, even if it were possible to get a member bold enough to propose such a thing, with a howl of indignation and ridicule. But the economy of it is palpable, as any one visiting these State groves a few times a year would have no need of brick and mortar lunatic asylums. These trees can never be renewed, and therefore it is even a greater crime to look on supinely while their destruction proceeds than to help in covering our open spaces with fire engine stations, which we can clear away again when we come to our senses.

The national Government, I hope, will reserve parts of the "Giant Forest" in Tulare county for national parks, and I believe are intending to do something of the sort. Let it preserve our giant sequoias and let California attend to our Coast Range redwoods, and posterity will bless us and admire our regard for it.

* * * * *

While glancing over one of our weeklies lately, I found illustrations of one of our suburban hostelrys which has lately been added to, together with the adjacent club house and other adjuncts, with an architect's name attached whom I knew was not the architect of the building. I found out that he was the architect for certain additions made thereto; and it struck me that this inadvertance, no doubt, has left the impression on one who did not know the facts of the case, that this architect was the architect for the entire building illustrated, and not merely for the additions; which was not right, for a professional man, or any other man, for that matter, should be most punctilious in only claiming what is really his. We cannot have too much of the spirit of honesty and justice in this world.

Yours truly,

STROLLER.

LIEN LAW.

The Mechanics Lien Law has heretofore been pretty badly tinkered by courts and Legislature, and it seems reserved for the present court to construe an illogical, unreasonable and unjust law in a most unreasonable manner. A decision handed down last week establishes the rule that if a contractor abandons a building for thirty days, the owner becomes liable for the contractor's debts. If that be the correct principal of the Lien Law, it ought to be called "An act to discourage the erection of buildings in this State." That is really its true import to-day. It prescribes how a man shall contract for the erection of a building, not only by directing that such contracts shall be in writing, but, further, that nothing but money shall be taken as payment, and that one-fourth of the sum shall not become payable until thirty-five days after the completion, thus depriving persons of the right to make contracts for lawful purposes as they think best, and it punishes owners who contract to the contrary by making them liable for all the debts and dues of the contractor. The whole thing is a job, and an imposition on property-owners. It was railroad through the Legislature by the lumber ring of this city. Mechanics' lien laws were originally designed to protect mechanics only. Now their operation has been extended to all and everybody who has anything whatever to do with a building. Why should a lumber merchant, who is as fully as able to look after his rights as any other business man, be preferred by law and given security for the material he sells. Other merchants have no protections or liens, nor do they need lien laws. On the other hand, it is a notorious fact that lien laws have made the merchants entitled to their benefits utterly reckless, and that they are responsible for nearly all of the numerous failures which occur among building contractors. Responsible builders are underbid by worthless ones, who are backed by lumbermen, relying in turn entirely on the lien law for their pay. The contractor is always expected to and does fail, and if the latest Supreme Court decision on this subject holds good, the owner would seem to be shorn of all and every protection. The next Legislature should be applied to to reduce the lien business to some reasonable basis again.—S. F. News Letter.

THE CALIFORNIA STATE BANK AT SACRAMENTO, CAL.

We present our readers with this issue a beautiful art-to-type view of the exterior of this imposing structure, together with several interior views, and below will be found the names of the persons who have been the leading instruments in the production of this grand display of art and architecture.

FOUNDATION.

The really most important part of the structure of any building, is that of which but little is to be seen after the building has been completed.

Upon foundations, in a great measure, depend the success of the enterprises for improving and beautifying our towns and cities with well constructed and imposing business blocks, bank buildings, manufactories, etc.

If care is taken and taste displayed in the construction of these improvements, the place obtains a character that makes it attractive for both the citizen and visitor. The California Bank Building, now nearly completed in Sacramento, is a structure of the kind above referred to, and the Chatain-Gillette Stone Company are to be credited with giving it a foundation that will ensure the stability of the structure for ages. Their place of business is 1219 Market street, San Francisco.

STONE.

Mr. David O'Neil of 330 Montgomery street furnish stone used on this building. It is from the Ione Quarry in Amador County. It is a red sand stone and a piece being tested by Mr. Irelan of the State Mining Bureau, stood a pressure of 9295 lbs. to the square inch before it crushed. Among the numerous buildings in which it has been used may be mentioned the following: Crocker Building, cor. Washington and Laguna street, San Francisco; Architect Perry's house, Oakland; Methodist Church, Stockton; Church of the Holy Immaculate, corner of 26th and Fair Oak streets. The new engine house, Bush and Market streets, in the Preston Industrial school buildings at Ione and the Jackson Court House erected thirty years ago.

CARPENTER WORK.

Mr. Fletcher, the well-known contractor, whose office is at 330 Pine street, was selected to do the carpenter work, and his name is a sufficient guarantee that the work has been fulfilled to the letter of the contract. He has an extensive business in this city, as well as throughout the State. Among the many fine buildings that attest his skill and workmanship may be mentioned that of Mrs. Parrott's on California street, between Montgomery and Kearny, also another for the same lady on the corner of Davis and Sacramento streets, valued at \$26,000, four large buildings from three to five stories in height, for the Pacific Power Co., and many others, including the residences of James Burling, William Burling, Col. E. E. Eyre of San Mateo, and the present residence of M. H. De Young on California street. He is now engaged on the Academy of Science building on Market street, which is a gift from the late James Lick.

STAIRS.

The stairs were constructed by A. I. Sanborn, of Mission & Fremont streets, in this city.

He is one of the pioneers in his line of business, and his work adorns many of the finest houses here and throughout the coast.

The stairs are of Spanish cedar and are eight feet wide. The flight of stairs leading to each floor break into two parts, thus winding about an eight foot well running to the roof, closed in by elegant wood-work in oaken balustrades, with carved oaken posts supported by mounted arches and lattice.

HOSE REELS.

The fire protection consists of four of the Schenck's hose reels, which are considered the finest fire protection for the inside of buildings it is possible to procure. Since their introduction some three years ago, hardly a prominent building has been put up but what is provided with them, and the record shows they have put out a large number of fires, and have never yet failed when called upon.

The large hotel at Coronado Beach has 87 of them in service, and 48 have just been placed in the Palace Hotel of this city. Quick and sure work and reliable apparatus is an absolute necessity for all inside fire protection, and these reels give this in perfection.

INLAID FLOOR AND FRET WORK.

The rooms of the Sutter Club have been fitted up in a style of finished elegance befitting the renown of this celebrated association. The floor of the dining room is of ornamental hard wood with wide inlaid border of oak and walnut finished in the most approved manner.

Fret work like inlaid floors has come to be almost a necessity where an attempt is made for ornamentation, it being at once structural, artistic and light, this fact is made apparent in the billiard room where a beautiful panel of intricate fret work has been placed at one end which adds to the general lightness and agreeableness of the room. The work mentioned has been done by Messrs. Reynolds & Adams of 1237 Market street, San Francisco, who are acknowledged to be at the head for the best of this class of work. From the long list of buildings where Messrs. Reynolds & Adams have put inlaid floors and fret work, we select the following: S. Hirsch, Broadway between Van Ness avenue and Franklin streets, S. L. Everett, S. W. Rosenstock and Wm. Friese, Washington and Van Ness avenue, of San Francisco, Governor Geo. C. Perkins and Geo. D. Metcalf, Oakland and A. N. Fink, Washington Market, Alameda.

VAULT WORK.

As one of the first considerations in a bank building are the safes and vaults, an architect cannot be too careful in giving out a contract of this kind so as to be sure that the parties contracting for such work are responsible people. The Hall's Safe and Lock Co., of 609 and 611 Market street, were selected to do this part of the work. There are two vaults, one 8x12 feet, steel lined, burglar and fire-proof, and closed by massive steel lined doors, secured by Hall time locks.

Beneath this main vault, in the basement, is the bank's storage vault, of similar character and size. There are 500 small steel safes for renters, each safe being fitted with the most approved safe deposit locks, with different combinations for each safe. This firm is the leading one of this kind on the Pacific Coast, and their numerous large contracts which they have on hand at the present time, aggregating \$150,000, attest this fact.

ART TILE WORK.

The improved methods of fitting up the interiors of buildings for business and domestic purposes is meeting with general favor among all classes, hence the impetus that has been given to the manufacture of fine and artistic goods for that purpose. With this fact staring us in the face, one cannot deny that the esthetic side of the American character is keeping pace with the development of its general nature. Those who have never visited such establishments, would be surprised, on their first visit to such a one as W. W. Montague & Co's., where displays of goods would meet their eyes outstripping almost the highest ideal for interior fittings in the way of fire-place facings of art tile, illustrating in enduring form and color, almost every phase of domestic and civic life. They would there find tiles of the most beautiful patterns of inlaid mosaics, and brass and bronze frames, mountings, and ornaments of beautiful designs and skillful workmanship.

At the New California State Bank, now in course of completion at Sacramento, may be seen evidences of the ability and skill of the above named firm. All tile flooring, grates and fire places, as well as all of the heating and ventilating contrivances were furnished and put in place by this firm. We therefore recommend to persons who contemplate building and completing to the extent illustrated by the above named beautiful building, to call on W. W. Montague, 309 to 317 Market street, San Francisco.

SHEET METAL WORK.

The slate roofing, copper, tin and galvanized iron work on the new bank now nearly completed in Sacramento, was executed by the Eagle Sheet Metal Works located at 1213 and 1215 Market street, San Francisco.

William Cronan, the proprietor of this establishment is an old resident of this state and is well known in the building trades to be one of the foremost workers in sheet metal on this coast. His extensive contracts successfully executed have given him a standing in the building trades that inspires the fullest confidence in his ability and integrity. We commend him to those needing his services in this line.

INTERIOR BANK FITTINGS.

The counters for the Banking department are constructed of solid mahogany, of an unique design, with Tennessee marble base and bevel plate glass guards or screens set in frames of oxidized copper ornamenting the top of the counter. All this work was furnished and put up by Webber & Co., corner of Post and Stockton street, San Francisco.

GLASS AND GLAZING.

The glass and glazing of a building of this class is of the first importance. The large lights require strength and toughness as well as clearness, which in this instance are highly polished plate for the windows, and heavy glass for the dome, over the stairway. Only a firm of large resources could assume the responsibility for such an amount of high grade glass as has been used for this building. With pleasure we note that the pioneer house of the Sullivan, Kelly Company 915 and 919 Second street, Sacramento, furnished and set the glass. This of itself is a sufficient guarantee to note that this portion of the building is as it should be. This old and tried house has occupied a high position for many years on account of the superior quality of their goods, and the fair and equitable manner of dealing with their customers.

ART GLASS.

All this work has been furnished by the well known Pacific Art Glass Works, No. 1211, 1213 and 1215 Howard street, San Francisco. John Mallon, the proprietor of this establishment is now, we believe, the oldest worker in Art Glass on the Pacific Coast.

PLUMBING.

The plumbing in this building was done by Crouch & Lyman whose place of business is at No. 511 J street. They are an old established firm and their work speaks for itself. The edifice is fitted up with combination gas and electric light fixtures throughout. There are twenty-four marble top washstands fitted up with 16-inch bowls and Peck's No. 8 combination faucets, also three enamel bath tubs with faucets similar to washstands. The latrines are Boyle's patent and are set in stalls of Tennessee marble. The water-closets are of a pattern made especially for this enterprising firm. The sanitary appliances as far as drainage is concerned is complete throughout, extra heavy cast iron pipe being used in conjunction with traps and vents. They have the most complete stock of plumbing goods and gas fixtures in Sacramento.

PAINTING.

Messrs. Krebs & Co., the pioneer firm of 626 J street, Sacramento, was selected to do the painting and decorative work. From an artistic point of view they have carefully carried out their contract, the wood for interior rooms being especially selected had to be preserved as far as possible. Messrs. Krebs & Co. have by a series of experiments discovered methods of treating woods so as to give a gloss and finish equal to a piano polish. They are the recognized leaders in their line of business, and have done work on many fine buildings, such as the State Capitol, Art Gallery, Hall of Records, County Hospital, Odd Fellow's Temple, Masonic Hall, and the residences of Albert Gallatin, the late Charles Crocker, Mrs. E. B. Crocker, Edgar Mills, General Redding and many others.

Being thorough men of business as well as competent mechanics, attentive to their work, and careful to fulfil all agreements to the entire satisfaction of their many patrons.

CITY BUILDING NEWS.

Broadway between Franklin and Gough. Painting; owner, B. Strauss; architect, C. Geddes; contractor, T. Downing; cost, \$570; signed, July 30; filed, August 2; payments, \$200, painted outside; \$228, completed; \$142, 35 days.

Broadway between Franklin and Gough. Plumbing; owner, B. Strauss; architect, C. Geddes; contractor, W. L. Snook; surety, N. Schwerin; cost, \$474; time, Nov. 1; 30; payments, \$200, gas and water pipes in; \$156, accepted; \$118, 35 days.

Broadway between Franklin and Gough. Brickwork; owner, B. Strauss; architect, Chas. Geddes; contractor, F. L. Hansen; surety, B. Joost; cost, \$7,300; time, four months and fifteen days; signed, July 8; filed, August 2; payments, \$1,250, graded; \$1,000, enclosed; \$1,000, brown coated.

Bryant between Fifth and Sixth. Painting, etc.; owner, La Societe Francisco; architects, Pissis & Moore; contractor, L. Palmit, cost, \$1,300; signed, July 28; filed, July 29; payments, \$1,000, on first and fifteenth day of each month; balance, 35 days.

Bush near Baker. Two-story frame; owner, T. Ryan; architects, Shea & Shea; contractor, R. Sulzoff; surety, W. J. Adams; cost, \$1,600; signed, July 1; filed, July 9; payments, \$600, raised; \$600, accepted; \$400, 35 days.

California near Kearny. Cast iron work; owner, D. R. Jones; architect, W. H. Arncliffe; contractor, R. Llewellyn; cost, \$1,900; signed, August 1; filed, August 2; payments, 75 per cent. of work done; balance 35 days.

California near Kearny. Wrought iron work; owner, D. R. Jones; architect, W. H. Arncliffe; contractors, Biglow and Little; cost, \$822; signed, August 1; filed, August 2; payments, \$822 entire work is completed.

Chestnut between Stockton and Dupont. Brick foundation; owner, A. E. Bert; contractor, A. Guilbert; cost, \$2,000; signed, August 2; filed, August 3; payments, \$500, foundation laid; \$500, brown coated; \$500, front finished; \$500, completed.

California near Taylor. Mill work; owner, Mahony Brothers; architect, A. Page Brown; contractors, Miller and Hamilton; cost, \$4,650; filed, July 17; payments, 75 per cent. as work progresses; 25 per cent., 35 days.

California near Steiner. Additions; owner, J. S. Franklin; architect, M. J. Welch; contractors, Orin Brault and John Miron; cost, \$5,700; filed, July 28; payments, \$1,425, framed; \$1,425, brown mortared; \$1,425, completed; \$1,425, 35 days.

Clara, between Fourth and Ritch. Carpenter work; owner, J. Carolan; contractor, Mullins Bros.; surety, R. G. Wilson; cost, \$2,800; signed, July 28; filed, July 29; payments, \$450, brick foundations in; \$450, framed; \$450, plastered; \$450, inside finish on; \$1,000, 35 days.

911 and 913 Capp street. Alterations; owner, M. A. Byrne; contractor, E. C. Worden; cost, \$1,125; time, 30 days; signed, July 21; filed, July 22; payments, \$350, kitchen up; \$350, bay windows finished; \$143, completed; \$282, 35 days.

California, corner Taylor. Marble work; owner, F. M. Wells; architect, A. Page Brown; contractor, California Marble and Building Stone Co.; cost, \$1,100; signed, July 8; filed, July 9; payments, first and fifteenth day of each month as work progresses; final payment, 35 days.

Chenery near 30th. One-story cottage; owner, C. H. Baker; contractor, E. C. Worden; cost, \$1,850; time, 90 days; signed, July 8; filed, July 9; payments, \$350, framed; \$350, rough plaster on; \$300, finished; \$350, on 10th day of December.

Collingwood, near 18th. Two-story house; owner, L. Blank; contractor, J. E. Loomer; cost, \$2,200; signed, July 19; filed, July 29; payments, \$700, enclosed; \$700, brown coated; \$800, accepted.

Douglas near Eighteenth. Owner, J. R. Kull; architects, Cook and Wry; contractor, T. J. Cook; surety, W. J. Adams; cost, \$1,650; time, 70 days; signed, July 23; filed, July 31; payments, \$400 framed; \$125, brown mortared; \$410, completed; \$415, 35 days.

Eddy near Buchanan. Brick work; owner, Mrs. E. Coleman; architects, Salfeld and Kohlberg; contractor, H. Holzenberg; sureties, J. F. and H. W. Kennedy; cost, \$1,475; cost, \$500; signed, August 1; filed, August 5; payments, \$400, framed; \$100, enclosed; \$100, brown mortared; \$145, accepted; \$145, 35 days.

Ellis near Powell. Elevators; owner, C. Mangels; architect, H. Gelfuss; contractors, A. J. McNichol & Co.; cost, \$2625; signed, July 25; filed, August 6; payments, 75 per cent. as work progresses; 25 per cent., 35 days.

Erie near Howard. Frame building; owner, A. Sanderson; architect, J. T. Kidd; contractor, J. J. McKeagie; cost, \$330; signed, July 18; filed, July 21; payments, \$618, framed; \$618, brown mortared; \$618, white coated; \$621, accepted; \$621, 35 days.

Fulton between Webster and Filmore. Two-story dwelling; owner, C. E. Foye; architect, G. A. Birchell; contractor, A. H. Plummer; cost, \$524; signed, August 1; filed, August 2; payments, \$982, framed; \$982, ready for plastering; \$982, white coated; \$982, completed; \$1335, 35 days.

Franklin near Myrtle Ave. Frame building; owner, J. W. Carmany; architect, J. Marquis; contractors, R. Parker and W. C. Chamberlain; cost, \$600; signed, August 1; filed, August 4; payments, \$340, framed; \$340, windows in; \$150, brown coated; \$130, finished; \$150, 35 days.

Fulton near Franklin. Alterations; owner, P. Rohrbacher; architect, H. Gelfuss; contractor, H. Munster; cost, \$225; signed, July 29; filed, 31; payments, first Monday of each month, 75 per cent. of work done; balance, 35 days.

Fair Oak near Twenty sixth. Mission Chapel; owners, F. W. Van Reynegom and F. G. Eichbaum; architect, E. A. Coxhead; contractor, J. Norris; cost, \$1100; filed, July 29; payments, 75 per cent. as work progresses; 25 per cent., 35 days.

Fulton near Lyon. One-story frame; owner, R. Dolan; architect, M. J. Welch; contractor, J. J. O'Brien; cost, \$1900; signed, June 25; filed, June 30; payments, \$350, framed; \$350, brown mortared; \$350, completed; \$900, 35 days.

Greenwich near Filmore. Two-story tenement; owner, F. Buehu; architect, W. Schrof; contractor, A. Morton; cost, \$3,100; signed, Aug. 7; filed, Aug. 8; payments, \$775, framed; \$775, brown mortared; \$775, white plastered; \$775, accepted; \$775, 35 days.

Greenwich near Larkin. Owner, J. Trohn; contractor, J. Bauman; cost, \$1,700; time, 70 days; signed, Aug. 5; filed, Aug. 7; payments, \$500, enclosed; \$500, brown mortared; \$700, 35 days.

Guerrero near 17th. Two-story frame; owner, P. McGlinn; architect, A. J. Barnett; contractor, Tegeler & Muller; surety, H. Schroder & W. H. Rowe; cost, \$4,600; signed, July 18; filed, July 23; payments, \$1,000, roofed; \$1,245, brown mortared; \$1,145, completed; \$1,170, 35 days.

Grove near Broderick. Two-story dwelling and one-story barn; owner, J. G. Doane; architect, C. J. Havens; contractor, White Bros.; cost, \$1871; signed, July 8; filed, July 10; payments, \$900, enclosed; \$900, rough pipes in; \$900, outside work is primed; \$921, completed; \$1,250, 35 days.

Grove near Buchanan. Three-story building; owner, A. McLaughlin; architect, H. Gelfuss; contractor, C. Heppely; cost, \$5,200; signed, July 29; filed, July 31; payments, \$787, framed; \$787, partitions set; \$787, outside work completed; \$787, white coated; \$787, completed; \$1,315, 35 days.

Gough bwt. Bush and Sutter. Alterations; owner, S. Buchanan; architect, H. C. Macy; contractor, J. S. W. Saunders; cost, \$2,170; time, Sept. 10, 1889; signed, July 29; filed, July 31; payments, 75 per cent. of work done; balance, 35 days.

24th bwt. Guerrero and Valencia. Alterations; owner, J. H. Grady; architect, A. C. Ludwig; contractor, Jax McConahy; cost, \$2,300; signed, July 29; filed, July 29; payments, \$200, framed; \$400, brown mortared; \$300, white coated; \$485, accepted; \$556, 35 days.

Owner, J. Bower; contractor, J. Glavin; cost, \$1,250; filed, July 29; payments, \$300, rustic on; \$300, brown mortared; \$350, finished; \$300, 35 days.

Grove near Buchanan. Alterations; owner, C. H. Thornton; contractor, L. D. Frichette; cost, \$2,050; signed, June 27; filed, June 30; payments, \$12.50, raised; \$512.50, brown coated; \$312.50, completed; \$312.50, 35 days.

Howard, near 11th. Three-story building; owner, H. Wilkins; architect, T. J. Welch; contractor, S. H. Kent; cost, \$4,500; signed, July 19; filed, July 25; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

Hartford, near 19th. Two two-story houses; owner, L. Lander; contractor, J. E. Loomer; cost, \$5,000; time, 60 days; signed, July 18; filed, July 24; payments, \$1,000, enclosed; \$1,000, brown coated; \$1,500, completed.

Hyde, between Filbert and Beach. To build road beds; owner, California Street Cable Co.; contractors, Foley & Keenan; cost, \$4,600; filed, July 8; payments, 75 per cent. of the amount so determined by said Superintendent; 25 per cent. 35 days.

Howard, near 28th. Three-story frame; owner, C. H. Van Orden; architect, C. T. Havens; contractors, R. Doyle & Son; cost, \$6,494; signed, July 2; filed, July 7; payments, \$1,200, framed; \$1,200, brown mortared; \$1,200, hard finished; \$1,244, finished; \$1,650, 35 days.

Jackson, near Powell. Brick and carpenter work; owner, J. Klein; architects, Salfield & Kohlberg; contractors, J. O. and B. Brown; sureties, C. Hanson and R. L. Taylor; cost, \$6,700; signed, June 28; filed, July 11; payments, \$1,250, framed; \$1,250, enclosed; \$1,250, white coated; \$1,250, accepted; \$1,700, 35 days.

Julian Avenue, near 15th. Church of St. John; owner, Church of St. John; architect, E. A. Coxhead; contractor, J. Norris; cost, \$32,675; signed, July 15; filed, July 23; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

Julian Avenue, near 15th. Owner, St. John's Church; architect, E. A. Coxhead; contractor, Union Pressed Brick and Terra Cotta Co.; cost, \$6,000; signed, July 15; filed, July 23; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

Leavenworth and Ellis. Elevators; owner, J. A. Schmidt; architect, J. E. Kraft; contractors, Cahill & Hall; cost, \$2,975; signed, Aug. 6; filed, Aug. 7; payments, 50 per cent. of value of work done; 50 per cent. 35 days.

Larkin, between Ellis and O'Farrell. Owner, P. J. Coffee; architect, Wm. H. Armistead; contractor, H. Keenan; cost, \$5,000; signed, July 15; filed, July 31; payments, 75 per cent. of work done; balance, 35 days.

Mount Calvary Cemetery. To build vault; owner, M. Skelly; contractor, E. J. Herpin; cost, \$3,000; time, November 1, 1890; signed, July 21; filed, July 22; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

Mission near Eleventh. Brick work, etc.; owner, H. Wilkins; architect, T. J. Welch; contractor, S. H. Kent; cost, \$7,900; signed, July 19; filed, July 25; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

Market near Sixth. Elevator; owner, A. Vetter; architect, R. Zimmerman; contractor, A. J. McNichol; cost, \$2,750; signed, July 23; filed, July 24; payments not mentioned.

Market between Fourth and Fifth. Balconies; owner, California Academy of Science; architects, Perry and Hamilton; contractors, Ransom and Cushing; cost, \$750; filed, July 24; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

Mission near Tenth. Concrete work; owner, S. H. Kent; architect, T. J. Welch; contractor, D. J. Brennan; cost, \$1,600; filed, August 7; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

Mission between Twenty-fourth and Twenty-fifth. Frame building; owner, A. W. Stone; architects, Pissis and Moore; contractors, Smilie Brothers; cost, \$9,415; signed, August 2; filed, August 4; payments, \$2,000, framed, \$1,500 brown coated; \$2,500, interior plastered; \$1,500 completed; \$2,555, 35 days.

Market betw. 4th and 5th. Soft wood mill work; owner, W. M. Fletcher; architect, Salfield and Kohlberg; contractor, P. A. Buell & Co.; cost, \$8,000; time, 90 days; filed, July 11; payments, installments before tenth day of each month; 75 per cent. as work progresses; remainder, 35 days.

Minnesota near Sierra. One-story house; owner, M. Haskins; contractor, R. O. Davis; cost, \$1,400; time, 65 days; filed, July 10; payments, \$350, studding up; \$350, brown mortared; \$350, white plaster is on; \$350, completed.

McAllister near Gough. Three-story frame; owner, H. Nieman; contractor, C. Zwiertein; cost, \$8,400; signed, July 3; filed, July 8; payments, \$1,575, framed; \$1,575, white coated; \$1,575, completed; \$2,100, 35 days.

Market near Fourth. Marble work; owner, F. M. Wells; architect, Percy & Hamilton; contractor, California Marble and Building Stone Company; cost, \$1,000; time, 60 days; signed, July 8; filed, July 9; payments, first and fifteenth day of each month as work progresses; final payment, 35 days.

Market near Sixth. Carpenter work; owner, A. Vetter; architect, R. Zimmerman; contractor, Adam Miller; cost, \$3,800; signed, July 22; filed, July 24; payments, \$2150, floors laid; \$2200, inside finish on; \$1450, completed.

Market near Sixth. Plumbing; owner, A. Vetter; architect, R. Zimmerman; contractor, W. F. Wilson; cost, \$2,568; signed, July 21; filed, July 24; payments, \$750, rough work done; \$750, second certificate delivered; \$768, accepted.

Market near Sixth. Plastering; owner, A. Vetter; architect, R. Zimmerman; contractor, W. C. Watson; cost, \$3,250; signed, July 24; filed, July 24; payments, \$800, first of main contract; \$300, second; \$275.50, third; \$312.50, fourth.

N. E. corner Broadway and Powell. Frame building; owner, J. Dupas; architects, Mooser & Cuthbertson; contractor, J. Dupas; cost, \$8,500; signed, July 18; filed, July 22; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

N. E. corner Noe and 24th. Two flats and one-story frame; owner, J. Attinger; architect, H. D. Mitchell; contractor, J. A. Ehmann; cost, \$5,470; signed, July 31; filed, Aug. 1; payments, \$1,100, ready for studding; \$1,000, enclosed; \$1,000, brown coated; \$1,000, accepted; \$1,370, 35 days.

N. W. corner McAllister and Larkin. Galvanized-iron work; owner, W. Cronan; architect, T. J. Welch; contractor, J. P. Hale; cost, \$6,891; signed, July 12; filed, July 23; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

N. W. corner Bryant and 11th. Three-story frame; owner, H. M. Butler; architect, J. T. Kidee; contractor, J. P. Whyte; cost, \$7,123; signed, July 28; filed, Aug. 2; payments, \$1,068, first floor joists in; \$1,068, framed; \$1,000, glazed; \$800, outside work done; \$800, completed; \$1,731, 35 days.

N. W. corner Jones and McAllister. Brick and cement fillings; owner, Hibernia Loan and Savings Society; architects, Pissis & Moore; contractor, G. D. Nagle; cost, \$2,385; signed, July 9; filed, July 9; payments, \$385, half done; \$900, completed; \$600, 35 days.

N. E. corner Hayes and Broderick. Three-story frame building; owner, C. Roller; contractor, R. Dreyer; cost, \$2,855; time, 90 days; signed, Aug. 5; filed, Aug. 5; payments, \$2,463.75, enclosed; \$2,463.75, plastered; \$2,463.75, 35 days.

N. E. corner Fillmore and Filbert. Frame building; owner, C. Dix; architects, Mooser & Cuthbertson; contractors, Wilson and Johnson; cost, \$3,811; signed, July 21; filed, July 22; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

N. W. corner Powell and Sacramento. Plumbing; owner, V. Menesini; architects, C. R. and J. M. Wilson; contractors, Childs and Chatham; cost, \$13,500; signed, August 1; filed, August 1; payments, \$231, enclosed; \$252, brown mortared; \$231, white mortared; \$231, completed; \$375, 35 days.

N. E. corner Sacramento and Mason. Brick work; owner, E. A. Denicke; architect, P. R. Schmidt; contractor, R. Ringrose; cost, \$2,636; signed, July 29; filed, July 30; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

N. E. corner Sacramento and Mason. Two-story building; owner, E. A. Denicke; architect, P. R. Schmidt; contractor, J. G. and J. W. Day; cost, \$1,960; signed, Aug. 1; filed, Aug. 3; payments, first and fifteenth day of each month; 75 per cent. as work progresses; 25 per cent. 35 days.

N. E. corner Van Ness and Myrtle Avenues. Elevators; owner, L. A. Levy; architect, P. R. Schmidt; contractor, Wm. H. Birch & Co.; cost, \$2,800; signed, July 22; filed, July 25; payments, installments on first and fifteenth day of each month; balance, 35 days.

O'Farrell near Gough. Two two-story building; owner, M. Samuel and J. H. Jacobs; architect, A. J. Barnett; contractor, Fancher & Cantor; surety, J. Levy and D. H. Bibb; cost, \$3,850; signed, Aug. 3; filed, Aug. 6; payments, \$3,374, roof boards on; \$2,750, brown coated; \$2,750, white coated; \$2,750, completed; \$3,375, 35 days.

Octavia near Golden Gate Ave. Carpenter work; owner, H. H. Taylor; architect, Pissis and Moore; contractor, A. Jackson; cost, \$4,008; signed, Aug. 8; filed, Aug. 8; payments, \$1,100, framed; \$1,100, enclosed; \$1,000, ready for painting; \$1,100, completed; \$1,100, 35 days.

Octavia near Sutter. Wood work; owner, I. Trumbo; architect, J. J. and T. D. Newson; contractor, A. White; cost, \$1,405; signed, July 7; filed, July 8; payments, \$1,068, when work is completed; \$337, 35 days.

Pine near Scott. Brick work; owner, W. E. Stevens; architect, H. M. Munson; contractor, O. E. White; cost, \$17,365; signed, July 23; filed, July 26; payments, \$3300, framed; \$3300, brown coated; \$3300, white coated; \$485, completed.

Post and Montgomery. Concrete work; owner, Robert Mitchell; architect, A. Page Brown; contractor, The Gray Bros. A. S. P. Co.; cost, \$15,900; filed, August 4; payments, 75 per cent. of value of work done; 25 per cent. 35 days.

Powell and Union. Three-story building; owner, J. Peralta; architect, C. M. Rousseau; contractors, D. Fraser & M. Yerxa; cost, \$8500; signed, July 23; filed, July 24; payments, \$1500, concrete work done; \$1500, roofed; \$1300, brown coated; \$1075, white coated; \$1000, completed; \$2125, 35 days.

Pierce near Eddy. Alterations; owner, M. E. Volz; contractor, M. Plums; cost, \$1,985; signed, July 21; filed, July 14; payments, \$540, roofed; \$400, outside finish on; \$385, completed; \$500, 35 days.

Pine near Scott. Plumbing for four two-story buildings; owner, W. E. Stevens; architect, H. M. Munson; contractor, H. Williamson; cost, \$1,798; signed, July 23; filed, July 25; payments, \$850, rough work done; \$142.50, completed; \$142.50, 35 days.

Pine between Taylor and Jones; alterations; owner, J. W. Steele; architect, Samuel, Newson; contractor, S. H. Lang; cost, \$7,000; signed, July 10; filed, July 9; payments, \$2000, completed; \$2500, 35 days.

Pacific near Front. Painting; owner, J. G. Fair; architects, Schulze & Meeker; contractor, F. S. Poland; cost, \$1725; time, October 15, 1890; signed, May 9; filed, July 11; payments, on first and fifteenth day of each month, 75 per cent. as work progresses; 25 per cent. 35 days.

Scott, between McAllister and Fulton. Owner, J. L. Nott; contractor, A. De Laiz; cost, \$1,580; signed, July 29; filed, July 27; payments, \$400, framed; \$400, brown mortared; \$400, finished; \$380, 35 days.

Sanchez, near 30th. Four-room cottage; owner, J. Loeme; contractor, B. Pfarrer & Son; cost, \$1,260; signed, July 23; filed, August 2; payments, \$625, framed; \$625, 25 days.

S. E. corner Stockton and Greenwich. Two-story frame; owner, V. Contradio; architect, C. M. Rousseau; contractor, K. C. Gordon; sureties, Blyth and Trout; cost, \$3,960; signed, August 2; filed, August 5; payments, \$743, enclosed; \$743, brown mortared; \$743, white coated; \$902, completed.

Sanchez, between Sixteenth and Seventeenth. Brick work; owner, F. Kaysar; contractor, G. Houston; cost, \$4,050; time, 90 days; signed, July 28; filed, July 31; payments, \$1,000, shingled; \$1,000, brown coated; \$1,000, white coated; \$1,050, 35 days.

Eighteenth, near Sanchez. Two flats; owner, M. Dempsey and wife; contractor, W. V. Rednall; cost, \$2,400; time, 75 days; signed, July 26; filed, July 29; payments, \$600, roofed; \$700, brown coated; \$550, white coated; \$700, finished; \$850, 35 days.

S. E. corner Bush and Van Ness Ave. Brick work, etc.; owner, S. F. Med. and Benevolent Society; architect, J. J. Clark; contractor, J. H. Wilson; surety, R. P. Huribus; cost, \$1,390; signed, July 25; filed, Aug. 4; payments, \$500, grading is complete; balance, 35 days.

S. W. corner Davis and Jackson. Brick work, etc.; owner, P. Griffin; architects, R. McDougall & Son; contractors, Martin Fennell & Son; cost, \$6,300; signed, July 22; filed, July 23; payments, \$1,300, first payment; \$1,300, second; \$1,300, third; \$725, fourth; \$1,575, 35 days.

S. W. corner Fillmore and Post. Alterations; owner, Bear Club; architect, G. H. Wollner; contractor, W. F. J. Plums; cost, \$1,190; signed, July 28; filed, July 30; payments, \$200, enclosed; \$300, exterior finish done; \$450, accepted; \$290, 35 days.

S. E. corner Hayes and Steiner. Frame building; owner, Mrs. M. Holladay; architects, Mooser & Cuthbertson; contractor, H. Somers; cost, \$5,350; signed, June 20; filed, July 12; payments, 75 per cent. of work done, remainder, 35 days.

S. W. corner Van Ness Avenue and California. Mill work; owner, J. C. Johnson; architect, H. C. Maey; contractor, N. Parrish; cost, \$5,000; signed, July 23; filed, July 24; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

S. W. corner Fulton and Octavia. Two frame buildings; owner, C. Deloche; architect, E. Depierre; contractor, J. R. Whalen; cost, \$17,000; signed, June 30; filed, July 9; payments, 75 per cent. as work progresses; 25 per cent. 35 days.

S. E. corner Ellis and Leavenworth. Painting and wood finishing; owner, J. A. Schmidt; architect, J. E. Kraft; contractor, H. F. Wagner; cost, \$3,150; signed, July 23; filed, July 31; payments, 75 per cent. of work done; balance, 35 days.

S. E. corner Bush and Van Ness Avenue. Two-story frame; owner, S. F. Med. and Benevolent Society; architect, J. J. Clark; contractor, P. Maloney; sureties, D. S. Cartwright and N. Doran; cost, \$3,600; signed, July 23; filed, Aug. 4; payments, \$1,700, framed; \$1,700, enclosed; \$1,700, first coat of mortar on; \$1,700, inside finish on; balance, 35 days.

Sixth and Minna. Alterations, etc.; owner, J. Molony; architect, M. J. Welch; contractor, D. Currie; cost, \$1,938; signed, July 21; filed, July 22; payments, \$484.50, framed; \$484.50, brown mortared; \$484.50, completed; \$484.50, 35 days.

Owner, J. Mitchell; contractor, J. E. Loomer; cost, \$2700; time, October 30, '90; signed, July 21; filed, July 22; payments, \$600, framed; \$800, brown mortared; \$500, inside finish on; \$800, 35 days.

Treat Avenue between 22nd and 23rd. Two flats; owner, J. C. Flood; contractor, E. Wilberg; sureties, J. H. Kruse and Wilberg; cost, \$3000; signed, August 1; filed, August 2; payments, \$500, foundations laid; \$500, enclosed; \$500, plastered; \$500, complete; \$1000, 35 days.

Turk near Steiner. Owner, M. Hart; contractor, A. R. Denke; cost, \$5500; time, Oct. 15, '90; signed, July 25; filed, July 29; payments, \$600, framed; \$600, first coat of plaster is on; \$700, 35 days.

Turk near Seymour. Carpenter work; owner, J. Siddle; architect, T. J. Welch; contractor, C. P. Marze; cost, \$4,250; signed, July 30; filed, July 30; payments, \$1000, framed; \$1000, brown coated; \$1,000, accepted; \$1250, 35 days.

Third cor. Perry. Walls and etc.; owner, W. J. Ramage and Wife; architect, A. C. Luitgens; contractors, Chatain & Gillett; cost, \$2000; signed, July 7; filed, July 8; payments, seventh and twenty-first day of each month, 75 per cent. as work progresses; 25 per cent. 35 days.

Union, between Laguna and Buchanan. Owner, Mrs. E. H. Coe; architect, A. De Fair; contractors, Smith & Marchant; cost, \$6,800; time, Nov. 15, '90; signed, Aug. 6; filed, Aug. 7; payments, \$1,350, framed; \$1,350, enclosed; \$1,350, brown mortared; \$1,350, completed; \$1,350, 35 days.

Owner, S. M. Hausel. Brick work; contractor, A. N. Nelson; cost, \$2,040; signed, July 28; filed, July 29; payments, \$340, brick foundations in; \$450, brown mortared; \$450, white coated; \$250, completed; \$550, 35 days.

Van Ness Ave. near Market. Artificial stone work; owner, J. Nitingale; architect, A. J. Barnett; contractors, Ransome and Cushing; cost, \$2,070; signed, July 1; filed, July 9; payments, 75 per cent. of value of work done; 25 per cent. 35 days.

Washington near Laguna. Owner, George Davidson; architects, Duffy Bros; cost, \$1,315; time, 120 days; signed, July 21; filed, July 23; payments, \$600, rough plumbing done; \$285, 35 days.

Webster near O'Farrell. Two-story frame; W. Wrode; architect, C. Devlin; contractor, J. Ahmann; sureties, M. Shewl and K. Kronenberg; cost, \$9,000; time, 90 days; signed, July 29; filed, July 29; payments, \$500, framed; \$500, enclosed; \$625, first coat of plaster is on; \$551, plastered; \$850, all wood work; \$250, completed; \$1125, 35 days.

ALAMEDA.

Regent, near Encinal Avenue; owner, N. Galliani; contractor, R. Gillis; cost, \$1,200; time, 90 days; signed, April 7; filed, July 5; payments, \$300, brown mortared; \$300, white coated; \$300, 35 days.

Regent, near San Jose Avenue. Owner, G. Pistolesi; contractor, R. Gillis; cost, \$2,000; time, 90 days; signed, April 7; filed, July 5; payments, \$500, framed; \$500, brown mortared; \$500, white coated; \$500, 35 days.

Railroad near San Pablo Avenue. Two-story frame; owner, W. O'Neill; architect, J. J. Clark; contractor, T. R. Bassett; cost, \$8,350; signed, July 7; filed, July 9; payments, \$2,300, frame up; \$2,300, brown mortared; \$2,300, inside finish on; \$2,300, 35 days.

Encinal Park Tract. Five-room cottage; owner, F. Marcuse; contractor, R. Gillis; cost, \$1,150; signed, July 8; filed, July 9; payments, \$400, brown mortar on; \$400, completed; \$350, 35 days.

Chestnut, near San Antonio Avenue. Two-story dwelling; owner, W. Hoge; architect, C. S. Shaner; contractor, H. E. Hatch; sureties, A. Kendall and W. H. Wharf; cost, \$2,000; signed, July 16; filed, July 17; payments, \$1,082, shingles on; \$1,082, brown mortared; \$1,082.50, stairs up; \$1,082.50, completed.

Buena Vista Avenue, near Everett street. Five-room cottage; owner, I. W. C. Hegelund; contractor, J. L. Atwood; sureties, J. L. Atwood, H. M. Wood and F. G. L. Lawlor; cost, \$1,200; signed, July 31; payments, \$300, framed; \$300, brown mortared; \$500, interior plastering finished; \$500, ready for painting; \$400, completed; \$895, 35 days.

McPherson, near Santa Clara Avenue. One-story frame; owner, D. Graham; contractor, A. R. Denke; cost, \$2,360; signed, July 24; filed, July 24; payments, \$600, framed; \$600, first coat of paint on; \$600, completed; \$600, 35 days.

BERKELEY.

James Tract. Owner, W. G. Sanborn; contractor, Wm. A. Powell; cost, \$1,400; time, Nov. 1, '90; signed, July 9; filed, July 10; payments, \$32.50, frame up; \$32.50, brown mortar on; \$32.50, completed; \$32.50, 35 days.

Double two-story frame. Owner, M. A. Helphusine; contractor, John Spencer; cost, \$3,500; time, 75 days; signed, July 17; filed, July 17; payments, \$1,500, first coat plaster on; \$1,400, completed; \$1,000, 35 days.

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To meet the growing demand created by a stricter interpretation of the Fire Department orders in this city, the Forrester Cornice Works at 224-226 Mission street are constantly receiving new supplies of goods for their works. The name of the proprietor of this establishment stands as a guaranty for the work of the Company, and that the satisfactory manner in which new patrons will find their contracts completed, we are sure will induce them to continue business with them.

We desire to call the attention of the public to the excellent water closets now being manufactured and sold at a very low price by W. J. Rustmeyer & Co., 215 Mission street.

House painting and decoration, both for its preservative nature as well as for decorative considerations, is perhaps the one in which the greatest abuses and frauds are practiced. Therefore care should be taken in selecting the painter, that he have both character and reputation. A combination of such qualifications the public will find in Wm. Armstrong & Son, No. 404 McAllister street.

In letting out your plumbing work invite those who have established reputations for doing good and faithful work. For such call upon Thomas Clark & Sons, No. 611 McAllister street.

The pressure brought upon the public by the increased rates of insurance consequent upon the immense destruction of property by fire, have led the public to adopt less combustible material for the construction of buildings, hence the Iron Lath has been introduced to prevent the spread of fire in interiors. There are several patents for this material now on the market, and one of the best of its kind, probably, is that manufactured and for sale by M. J. Donovan, No. 1171 Market street, San Francisco. There are points of excellence in his which builders and others will do well to examine, which he will take great pleasure in pointing out to those who will make him a call.

Wire Works.—Since the first introduction of wire works and wire wares on this coast, a great improvement has been made, both in style and variety of the goods manufactured, and the ingenuity of the artisan continues to be taxed to produce new articles of usefulness for domestic and building purposes. Persons needing supplies for building purposes, will find a great variety of designs from which to select at C. H. Gruenhagen's San Francisco Wire Works, 669 Mission street.

A few years ago we heard for the first time of the attempt to manufacture gas in small quantities for domestic and commercial purposes. The ideas of safety then required that the crude material from which the gas was to be made must be removed at a distance from the place at which it was to be used. But modern improvements and ingenuity have banished distance for this purpose and gas is now obtained by the use of portable machines located anywhere about the premises. Such machines are now to be had of Jacob Schieber at No. 43 and 45 Stevenson street, San Francisco.

Tanks are now more frequently used for storage of water for domestic purposes than ever. With the abundance of water now known to exist beneath our feet, there is no excuse for the lack of that precious fluid in towns and country places, where there are not public water works. Fulda's Planing Mill makes a specialty of furnishing this article at No. 30 to 40 Spear street, San Francisco.

One of the laws peculiar to the State of Illinois is that pertaining to the line wall, and is the exact opposite of the law in several of the Eastern States.

When an architect commences work on a lot adjoining one on which a building stands, he sends word to the owner of said building that operations are about to be commenced, and warns him to protect his foundations. Should he fail to do so, and because of excavations made for the new building, the whole or a portion of the old one should fall on the lot on which is the building in process of construction, the owner of said lot and building may sue his neighbor for trespassing, and obtain damages as has already been ruled by the Supreme Court. It is a law which amuses and enrages the ordinary property owner, according as he is an active participant in the fray or merely a passive observer.—*American Architect.*

Mann's Patent chimneys as a substitute for brick have long been in the market and are well known among architects, builders and owners, and are acceptable to the insurance companies. With this, patent, marble mantels can be put up in any part of a wooden structure. They have been found to be both earthquake and fire proof. As the inner surface is smooth terra cotta and the joints flush, there is but little chance for lodgment of soot and can therefore be relied upon for a clean current of heated air and smoke, upwards, and down drafts are prevented by the cap surmounting the whole above the roof. This chimney is for sale by Schuster Bros., No. 306 Sutter street, San Francisco.

There seems to be a growing desire for capitalist to invest in tall buildings, as the ground in densely populated cities increases in value. That a greater rate of interest is thereby obtained, is evidently becoming a fact. In connection with this comparatively new mode of utilizing ground values, other important considerations are forced upon the investor's attention; such as safety of construction, and a safe and convenient method of access to the upper stories. To this end the elevator is now engaging the attention of the foremost inventors. Among the many contrivances for this purpose, those embodying the hydraulic principle seem to be the most in favor, and those most used in this city now are manufactured by Wm. H. Birch & Co., who have added as a factor to the safety of their elevator the Ellithorpe Air Brake and Air Cushion. Their place of business is No. 119 Beale street, San Francisco.

Formerly cement pipes were extensively used for sewers and drains, but now the iron stone pipe is manufactured and sold at such low rates that the cement pipe has been driven from the market. The best Vitrified Iron-Stone Pipe can now be found at Tracy Bros. & Co., No. 20 and 22 Eighth street.

Scarcely a day passes that does not bring to light some new invention for utilizing steam as a motor power. To produce steam in the most economical manner is now the study with mechanical engineers. Dundon's San Francisco Boiler Works is now manufacturing a portable boiler that seems to be a favorite among those who need a small amount of power. Call on Mr. Dundon at No. 314-318 Market street and examine his works.

As the season opens the inquiries for the Metallic Lath, manufactured by the Cincinnati Corrugating Co., of Piqua, Ohio, increase, showing that it is still growing in popularity. It is found in practice that this style of lathing is the most effective as well as the most economical on the market. Especially do contractors and workmen find advantages over all other styles in the matter of putting it on. Its rigidity gives it a great advantage over all other forms of wire cloth. It forms a strong bracing to the building, and can be used over many open spaces where other styles would not be effective. This Lath generally comes in pieces about four inches wide for the narrowest, to about twelve inches wide for the widest. It runs from two to eight feet in length as circumstances require.

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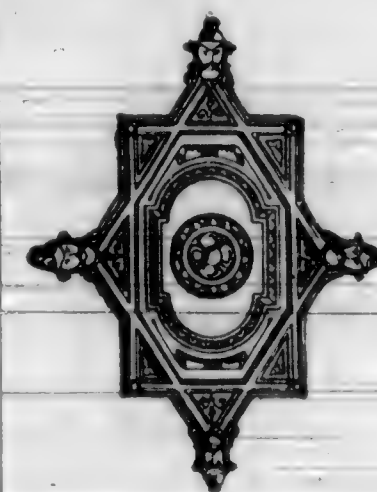
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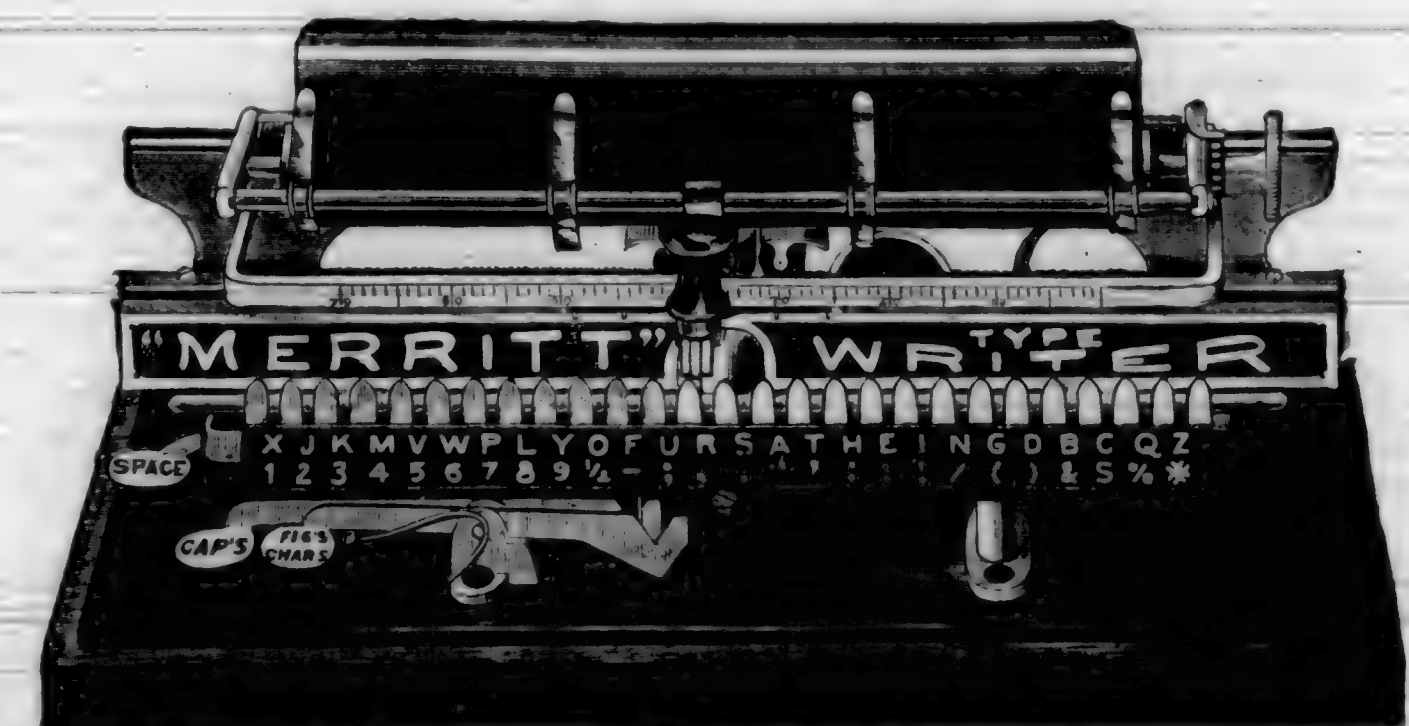
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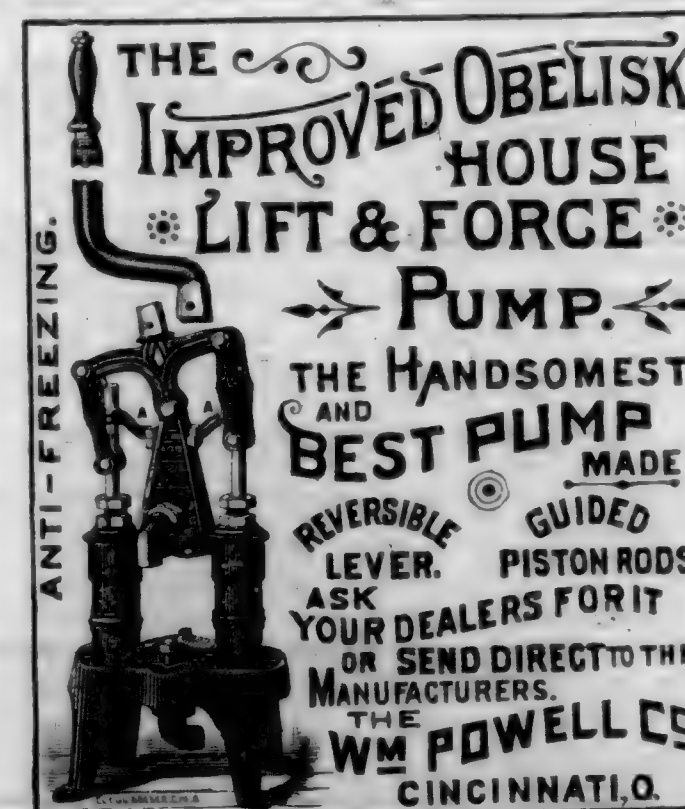
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Page 12 in 1890 Supplement.
The above cut shows the Norris Pulley as it
appears in the frame. This Pulley is made
so that the Rope cannot possibly leave the
wheel.

The California Architect and Building News.

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NOTICE.

MR. George H. Wolfe, having no further connection with the business of this journal, correspondents will in future address their communications to the *California Architect and Building News*, 408 California Street, San Francisco, Cal.

NOTICE OF MEETINGS.

SAN FRANCISCO CHAPTER, AMERICAN INSTITUTE ARCHITECTS, meets second Friday of each month at 408 California Street.
SETH BABSON, Pres. W. P. MOORE, Vice-Pres.
OLIVER EVERETT, Sec. JOHN W. CURTIS, Treas.

TECHNICAL SOCIETY OF THE PACIFIC COAST, meets first Friday of each month at 408 California Street.

JOHN RICHARDS, Pres. PROF. FRANK SOULÉ, Vice-Pres.
OTTO VON GELDERN, Sec. JAS. SPIERS, Treas.

THE Annual Meeting of the San Francisco Chapter of American Institute of Architects was held Friday evening September 12th. The reports of the retiring officers received and the following officers elected to serve the coming year, namely:—

SETH BABSON, Pres. W. J. CUTHBERTSON, Vice Pres.

OLIVER EVERETT, Sec. J. W. CURTISS, Treas.

Trustees, W. P. Moore, G. W. Percy, Geo. H. Landers, Geo. A. Bordwell and E. J. Molera.

THE mentions in the monthly competition of the A. I. A. Sketch Club for August, (the subject, A Hall Clock) were as follows: First mention, S. C. Benson; second, H. J. Van Vlack; third, Hugh H. Hinds; fourth, John Williams.

THE meeting of the Technical Society of the Pacific Coast was held on September 5th, at their rooms 408 California street. The subject being Hydraulic Cements and Concrete by Mr. Calvin Brown, who is well known on this Coast as a very eminent authority, he having designed the extensive dry dock at Mare Island some years ago for the Government, having traveled throughout the Eastern States and Europe to become acquainted with the most approved technical and mechanical requirements for the production of the best possible work in that line, thus, being so thoroughly informed in the details, Mr. Brown's remarks were replete with instructive knowledge and was listened to with attention by those so fortunate as to be present.

AT a recent date the California Camera Club of San Francisco, invited their friends to an exhibition of views of Chicago. These views were prepared and presented by the Chicago Camera Club to represent the early history, and phenomenal growth and modern greatness of Chicago. The views shown indicated in a marked degree the taste and judgment of the photographers in order to illustrate the magnitude of the immense structures, where in some instances, the instrument used must have taken in a field of 75 to 80 degrees. The stereopticon (a triplet) worked without a hitch, the slides being brilliantly lighted were clearly represented on the large screen, which was set (which is unusual in lantern exhibitions) so as to give the proper perspective effect. The lecturers voice was heard distinctly in every part of the large hall which was filled even to standing room. Aside from the general pleasure of the exhibition its advantages as an aid to the study of the Architecture of the Country is worthy of note, especially, to those who have not recently visited the more important Eastern cities, such illustrations being full of hints that may be turned to profit by the thoughtful, and in no other way can such realistic scenes be depicted as those by a lantern journey. The Camera Club is in a prosperous condition many of our architectural picturesque camera shooters being members.

WITH the commencement of the next volume of this Journal—1891—we propose to introduce a new heading, the design for which will be subject to competition; particulars in regard to same will appear in the October issue.