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307 MONTGOMERY STREET,

NEVADA BLOCK, SAN FRANCISCO.

BUILDING NEWS.**OAKLAND**

Adams Point Property, lots 6 and 7 block 5. To build: a. Alexander Young; a. Perry & Hamilton; c. W. P. and R. M. Veitch; signed, Oct. 13; filed, Oct. 15; cost \$2000.

Broadway and Moss Ave. Work except heating, ventilating, etc. for Dottie Cook Annex to Fabiola Hospital; c. Mrs. H. E. Cook; a. D. F. Oliver; c. I. & H. Bingham; signed, Oct. 13; filed, Oct. 20; cost \$2757.

Block 64, lots 19 to 24. To build: o. S. Ringolsky; c. Chas. A. Doss; signed, Sept. 25; filed, Oct. 3; cost \$2540.

St. Charles and Louisa St. To build: o. Marie Farthman; c. A. Wright; c. Knox & Cook; signed, Sept. 10; filed, Sept. 16; cost \$2300.

Albion near Telegraph Ave. Two-story frame; o. Cynthia C. N. Walter; a. John Laughland; c. E. P. McGowan; signed, Sept. 14; filed, Sept. 15; cost \$2100.

Market and 10th. All work except plumbing, painting, etc. o. Charles Camden; a. Charles Mau; c. D. McLeod; signed, Sept. 17; filed, Sept. 27; cost \$1800.

Fifteenth and Castro. Alterations and additions; o. William Quintana; a. W. Smith; c. Ben J. Johnson; signed, Sept. 23; filed, Sept. 24; cost \$1025.

Clarendon Ave. To build: o. C. J. Anderson; c. C. A. Henderson; cost \$2250.

Harrison near Durant. To build: c. Geo. Lydskov; cost \$1500.

OAKLAND

East 16th near 3d Ave. To build: o. A. J. Wilson; a. Cunningham Bros; c. A. T. Spence; cost \$3551.

PALO ALTO

Building in connection with Stanford University; o. Mrs. Jane Stanford; a. Percy and Hamilton; c. Thomas and Charles Demicheli and William Schurr; cost \$13,208.

AUBURN

Business block—Anderson Bros building a two-story house to cost \$2700 and Bart and Lecher will build a ware house of corrugated iron 50x100, architect A. D. Fellows.

S. P. Co will build an over head high way crossing 100 feet long on Colfax Ave.

John Davis is building himself a cottage, cost \$1200. Much repairing and fixing for winter.

STOCKTON

Frank S. Boggs has just let the contract for the erection of his residence on east Magnolia street according to the plans and under the supervision of housing a d Lemme, architects; which will cost complete \$4200. The design will be of the English "Manor House."

Contractors are bidding upon a two-story brick building 50x30' for the W. C. T. U; which is to have a handsome front of Roman brick, etc. it will be erected on California street near Weber Ave. Geo. Rushforth is the architect.

The "Christian Church" of Stockton have selected the designs for a new church submitted by Geo. Rushforth, architect; and its erection will be commenced as soon as bids can be received. It will be located on the corner of California and Lindsay streets.

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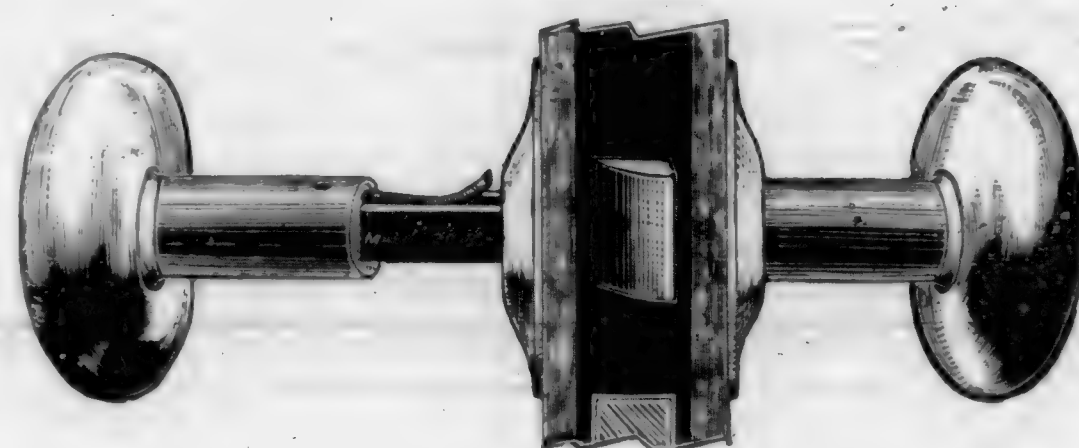
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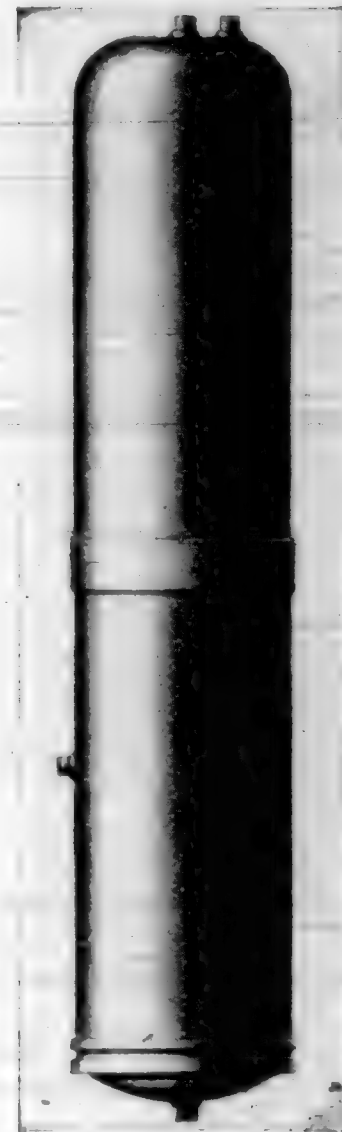
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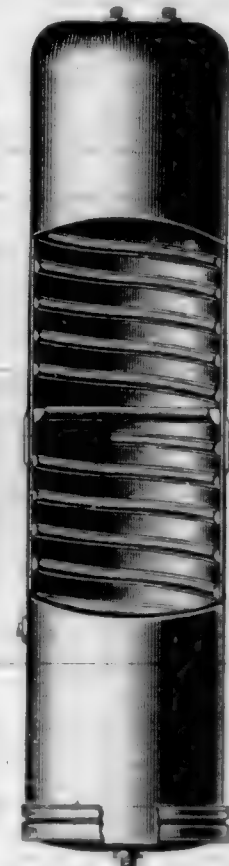
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W. Curlett Architect.

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Jas. E. Wolfe, Architect.

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R. H. White, Architect.

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Wm. H. Armitage, Architect.

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H. Geilfuss, Architect.

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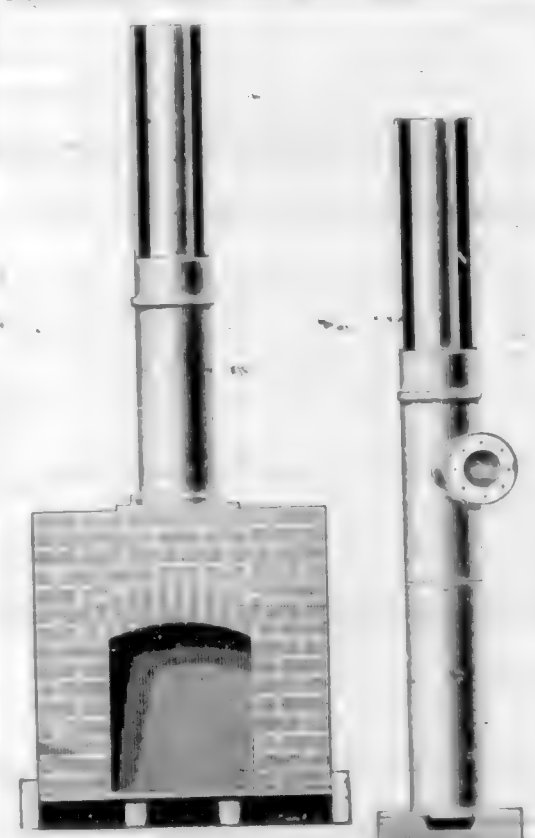
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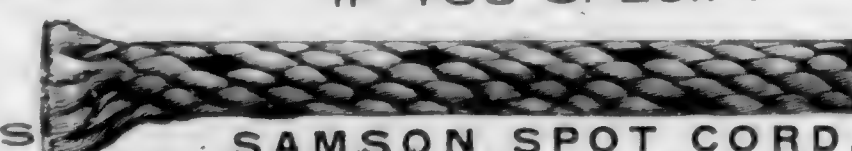
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THE CALIFORNIA ARCHITECT AND BUILDING NEWS

\$3.00 PER YEAR

VOLUME XIX, No. 11. NOVEMBER, 1893.

CONTENTS:

Index to Advertisers	vi
Passing of the Old Buildings	122
Dr. Bazel's Microscopic Hatchery	123
Destruction of the Baldwin	124
Color in Street Architecture	125
Members of the Architectural Studio Hard at Work	126
The Acoustics of Trinity Church	127
Thirty-Second Annual Convention of the American Institute of Architects	128
Obituary	129
Trade Notes	130
Illustrations	131
Hotel Green, Pasadena	132
Notice of Meetings	133
Books and Periodicals	134
Tests of Cast-Iron Columns	135
Lesson From Fire and Panic	136

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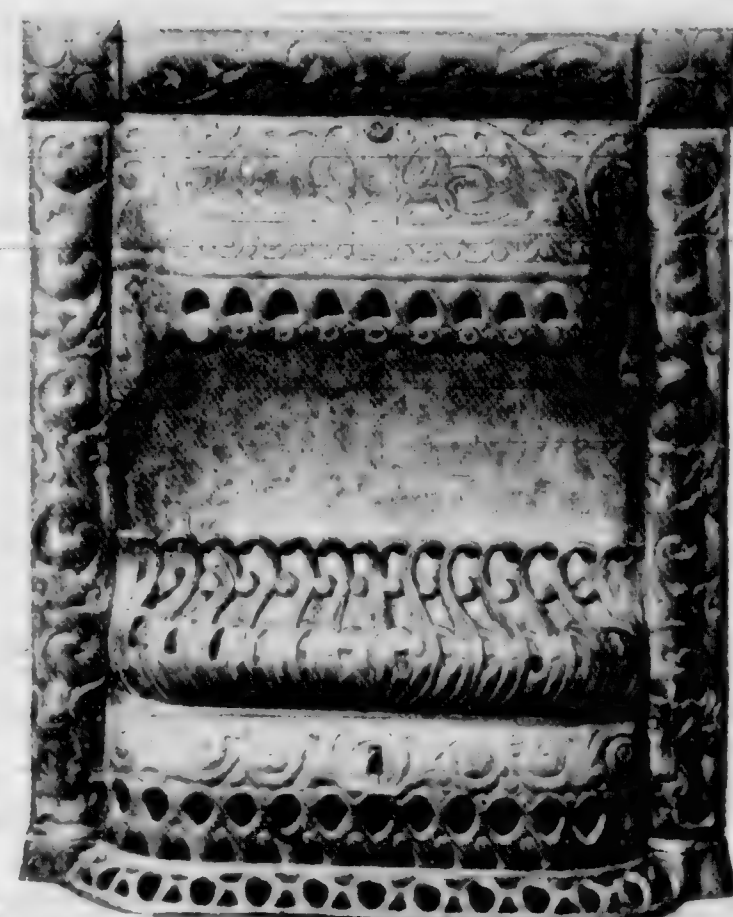
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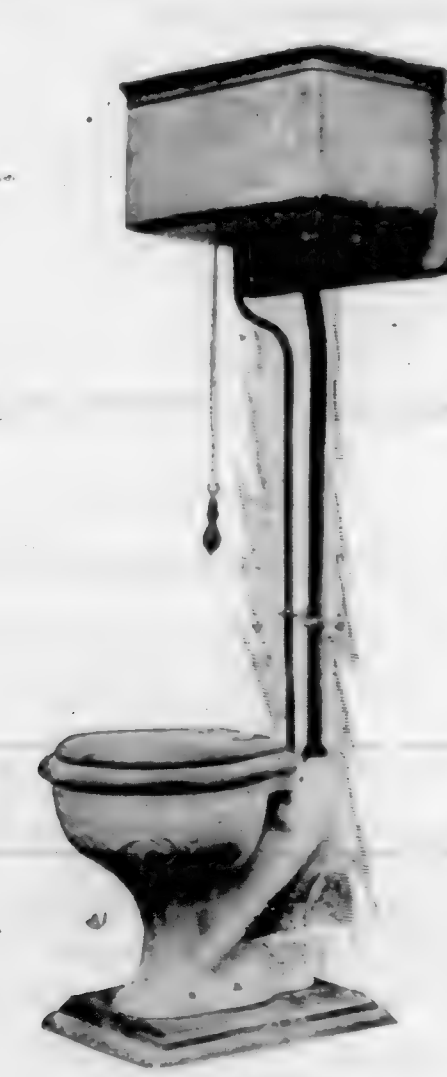
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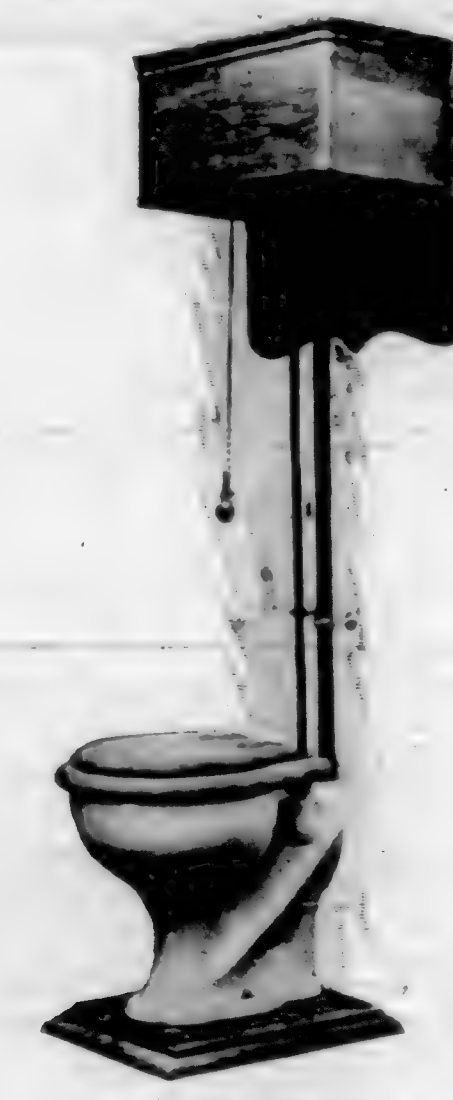
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BUILDING NEWS.

Andover Ave. Additions to cottage; owner and contractor, J. B. Alexander, architect, W. J. Culbertson; cost \$500.

Bannan Place near Green. Three-story frame; o. Antonio Silvestro; a. John McHenry; c. A. N. Nelson; signed and filed, Oct. 28; cost \$1700.

Birch Ave. near Laguna. Additions and alterations; o. J. Kline; c. S. S. Weeks; signed and filed, Oct. 27; cost \$1465.

Broadway near Scott. Alteration and additions; o. Mrs. C. L. Nokes; a. F. S. Van Trees; c. Thos. O'Connor; signed and filed, Oct. 28; cost \$382.

Capp and 19th. One-story frame; o. H. Schomaker; a. Mariens & Coffey; c. J. T. Lorenzen; signed, Oct. 25; filed, Oct. 26; cost \$700. Plumbing; c. Chas. Rehn; signed, Oct. 25; filed, Oct. 26; cost \$400. Painting; etc; c. J. Stroetgen; signed, Oct. 25; filed, Oct. 26; cost \$550.

Chattanooga near 21st. Two-story frame; o. George Towns; a. W. W. Kednall; c. W. Plant; signed, Nov. 5; filed, Nov. 7; cost \$3720.

Church near 15th. Three-story frame; o. Walter A. Green; a. P. Schwerdt; c. Jas. F. Ford; signed and filed, Nov. 18; cost \$1290.

Devadero near Vallejo. Two-story and attic; o. Henry E. Monroe; a. F. D. Van Trees; c. Chas. M. Depew; signed, Nov. 10; filed, Nov. 11; cost \$3365.

Fair Oaks near 21st. To build; o. Sol Marks; c. Douglass & Co; signed, Nov. 15; filed, Nov. 17; cost \$1880.

Ferry Building. Benches, tables, etc; o. C. I. State Mining Bureau; a. Edward C. Swain; c. John Trounson; signed, Nov. 9; filed, Nov. 11; cost \$1488.

Golden Gate Ave. and Lyon. Three-story frame; o. Joseph Jacquemet; a. C. M. Rousseau; c. R. J. Pavert; signed, Oct. 13; filed, Nov. 15; cost \$5440.

Green and Devisadero. To build; o. W. J. Gunn; a. E. A. Mathews; c. A. S. Ruch; signed, Nov. 1; filed, Nov. 2; cost \$10,088.

Greenwich and Jansen Alley. Alterations and additions; o. A. and T. Schablagne; a. J. Godart; c. P. A. Antonelli; signed, Oct. 27; filed, Nov. 5; cost \$2768.

Hayes near Fillmore. To build; o. Isaac Ellaser; c. E. C. Blitch; signed, Nov. 12; filed, Nov. 14; cost \$2240.

Hayes near Steiner. Carpentry, plastering, etc; o. George Hildebrandt; a. P. Schwerdt; c. T. J. Crawford & Son; signed, Oct. 22; filed, Oct. 27; cost \$3100.

Henry near Noe. To build; o. J. F. Fleming; a. William Koenig; c. Ira W. Coburn; signed, Nov. 10; filed, Nov. 12; cost \$3000.

BUILDING NEWS.

Larkin near Sacramento. Plumbing, etc; o. Geo. W. Harris; a. Shea & Shea; signed, Oct. 29; filed, Nov. 8; cost \$1024.

Main near Howard. Furnishing and driving 104 piles; o. Pelton-Water Wheel Co; a. Walter J. Mathew; c. Jas. A. McMahon; signed, Oct. 22; filed, Oct. 23; cost \$2125.

Main near Folsom. Brick warehouse; o. Geo. W. Gibbs; a. Reid Bros; c. C. Krecker; signed, Nov. 15; filed, Nov. 17; cost \$1675.

Mason and O'Farrell Alley. Brickwork, chimney, etc; o. Thos. Ashworth; a. Newson & Meyer; c. John McMurthy; signed Oct. 25; filed, Oct. 31; cost \$2375.

Mason and O'Farrell Alley. Carpentry, concrete, etc; o. Thomas Ashwood; a. Newson & Meyer; c. Malory & Swenson; signed, Nov. 10; filed, Nov. 16; cost \$10,600. Plumbing, etc; c. James F. Ford; signed, Nov. 10; filed, Nov. 16; cost \$1500. Plastering, etc; signed, Nov. 10; filed, Nov. 16; cost \$1870. Painting, etc; c. Kuss & Storz; cost \$1400.

Mason and O'Farrell Alley. Carpentry, concrete, etc; o. Thomas Ashwood; a. Newson & Meyer; c. Malory & Swenson; signed, Nov. 10; filed, Nov. 16; cost \$10,600. Plumbing, etc; c. James F. Ford; signed, Nov. 10; filed, Nov. 16; cost \$1500. Plastering, etc; signed, Nov. 10; filed, Nov. 16; cost \$1870. Painting, etc; c. Kuss & Storz; cost \$1400.

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Market and 8th. Brick work; o. William Wehner; a. O. Everett; c. Sinnott & McCann; signed, Nov. 23; filed, Nov. 27; cost \$3388.

McAllister near Laguna. Three-story frame; o. William and Augusta Gans; c. William Heldberg; signed, Oct. 12; filed, Oct. 31; cost \$9750.

Mission and 14th. Painting, etc; o. Southern Pacific R. R. Co; signed, Nov. 10; filed, Nov. 15; cost \$240.

Mission and 14th. Painting, etc; o. Southern Pacific R. R. Co; signed, Nov. 10; filed, Nov. 15; cost \$240.

Ninth Ave. near C. N. Cottage; o. Capt. Fred Nielsen; c. Marcuse & Rimmel; signed, Nov. 1; filed, Nov. 15; cost \$1800.

Nineteenth and Angelica. Electric light, etc, for four-story brick; o. Youths Directory; a. C. J. I. Devlin; c. Gas Consumers Ass'n; signed, Nov. 7; filed, Nov. 14; cost \$1100.50.

O'Farrell near Laguna. Alterations, etc; o. M. J. Franklin; a. Philip Schwerdt; c. H. Jacks; signed and filed, Nov. 21; cost \$3165.

Pacific Ave. near Pierce. To build; o. Charles Page; a. F. S. Van Trees; c. Chas. and Walter Williams; signed, Nov. 10; filed, Nov. 11; cost \$12,400.

BUILDING NEWS.

San Bruno Ave. and Dwight street. To build; o. F. H. Dieckman; c. L. Medus; signed, Oct. 28; filed, Nov. 2; cost \$1000.

Second Ave. near Presidio Reservation. Plumbing; o. Golf Syndicate; a. F. S. Van Trees; c. Walter and Chas. Williams; signed, Oct. 28; filed, Oct. 28; cost \$345.

Seventh near Folsom. Additions and alterations; o. M. S. Johnson; a. Sharp & Holmes; c. F. W. Knight; signed, Nov. 15; filed, Nov. 18; cost \$2185.

Seventh and Minna. Two-story and three-story to building; o. Thomas G. Taylor; a. Martens & Coffey; c. J. B. Gonyman; signed, Nov. 3; filed, Nov. 7; cost \$10,147. Plumbing, etc; c. Henry Ernst; cost \$1475.

Seventeenth near Folsom. Concrete, brick and wood building; o. The St. Nicholas Laundry Co; c. F. W. Kern; signed, Oct. 31; filed, Nov. 2; cost \$5050.

Sutter street. No. 238. Additions and alterations; o. Mr. Weil; a. P. Schwerdt; c. P. Schwerdt; cost \$2500.

Elizabeth near Hoffman Ave. Cottages; o. and c. Jacob Heyman; cost \$3000.

Trent Ave. near 22d. Alterations; o. John C. Flood; a. C. M. Rousseau; c. George C. Nall; signed, Oct. 24; filed, Oct. 26; cost \$1400.

OAKLAND

Army Tract lots 12, 13 and 14, block A. To build; o. Dr. G. and Bertha Thomas; a. D. F. Oliver; c. A. T. Spence; signed, Oct. 15; filed, Nov. 17; cost \$1462.

Center street near 8th. Cottage; o. W. J. and John Edwards; a. A. W. Smith; c. Jacob House; signed, Nov. 1; filed, Nov. 2; cost \$1795.

Eighteenth and West. To build; o. Thomas Moran; a. Cunningham Bros; c. Chas. S. Barnard; signed, Nov. 7; filed, Nov. 12; cost \$1948.

Knox Place. Two-story frame; o. Mrs. William Owens; a. F. S. Van Trees; c. William Bros; signed, Nov. 4; filed, Nov. 5; cost \$3080.

Moller Tract. To build; o. Wm. B. and Elizabeth M. Ward; c. A. W. Pattiani & Co; signed, Nov. 17; filed, Nov. 17; cost \$1417.

Oak and 12th. To build; o. Thos. W. Corder; a. Thos. D. Newson; c. G. W. Hick; signed, Oct. 27; filed, Oct. 27; cost \$4591.

Terminal Depot. Changing present heating plant; o. Southern Pacific R. R. Co; a. Engineer of Company c. Geo. H. Tay Co; signed, Nov. 4; filed, Nov. 19; cost \$1100.

ALAMEDA

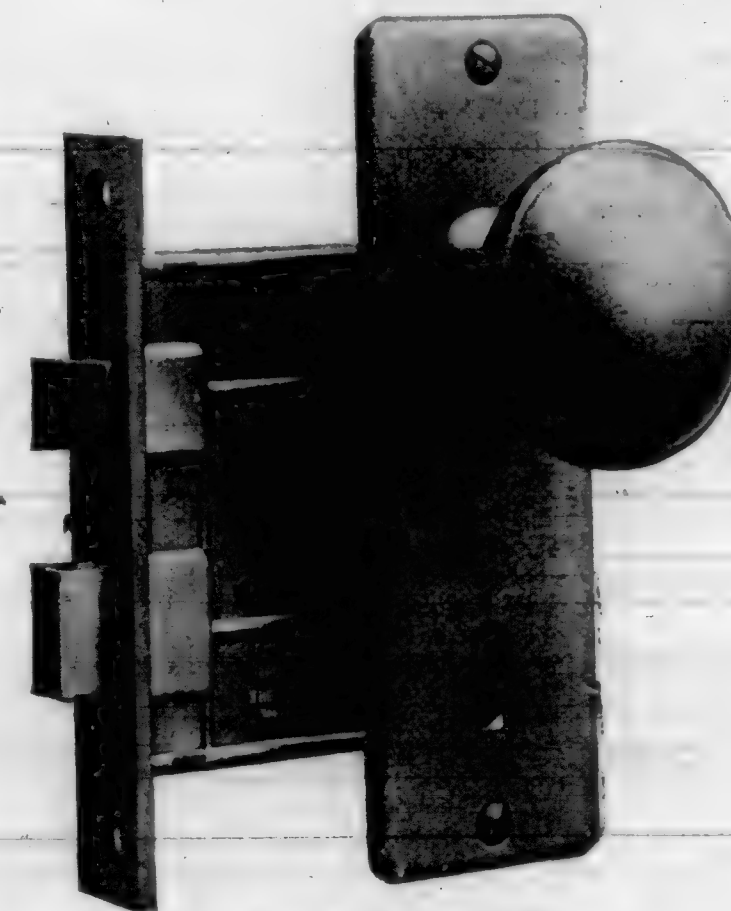
Santa Clara Ave. Frame dwelling; o. O. W. Moore; a. B. E. Rimmel; c. Brehant & Cornelius; signed, Oct. 25; filed, Oct. 27; cost \$2670.

Telegraph Ave. near Webster. To build; o. Miss M. Darling; a. A. W. Smith; c. C. M. MacGregor; signed, Nov. 14; filed, Nov. 15; cost \$1830.

Continued on page xlii.

The "Vulcan" Locks

All Wrought Metal—with "Compensating" Hubs.



Lock Set No. 220B.
One-half Actual Size.

Our General Offices in New York have recently received the following unsolicited letter from a prominent builder and contractor. Believing that the statement of experience it contains will be of interest, we reproduce it below.

An Artistic Brochure on Vulcan Locks, also a Catalogue of 90 pages, will be sent on request.

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GENERAL OFFICES: 9-11-13 Murray St., NEW YORK.
WORKS: Stamford and Branford, Conn.

OFFICE OF A. BEINHAUER,
124 Maiden Lane,

NEW YORK, July 11th, 1898.

The Yale & Towne Mfg. Company,

9-11-13 Murray Street, New York.

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The difference, as I found it, was that while a man put on six to eight of the latter, he could in the same space of time put on twelve to fourteen "Vulcan Locks," thus decreasing the cost of labor to a considerable extent.

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Wishing you all success with your "Vulcan Locks," I remain

Yours truly,

(Signed) ALFRED BEINHAUER.

GENERAL INDEX OF ADVERTISEMENTS.

CLASSIFIED INDEX.		CLASSIFIED INDEX.		CLASSIFIED INDEX.	
Architects.	xv	Iron Hangers	vi	Sash Locks.	xiv
Architects' Supplies	iii	Van Dorn, Chas. J. Waterhouse, Agent.	vi	Ives, H. B. & Co.	xiv
Keuffel & Esser.	iii	Iron Works	x	Sewer Pipes.	xi
Artificial Stone.	xii	Western Iron Works.	x	Gladding, McBean & Co.	xi
Goodman, Geo.	xii	Iron Cornices.	vi	Sewer Traps.	viii
Boilers	xiv	Cronan, Wm.	vi	Dallimore, G. C.	viii
Randolph & Clowes.	xiv	Wm. Heldt.	vi	Sash Lines.	xvi
Building Supplies.	ix	Incandescent Lamps	xiv	Samson Cordage Works.	xvi
Smith & Young.	x	General Electric Co.	xiv	Shingle Stains.	xiii
C. J. Waterhouse.	x	Lumber.	xiv	(Cabots)—C. J. Waterhouse—Agent.	xiii
Building and Loan Assn.	xv	Scott and Van Arsdale.	xiv	Pacific Refining and Roofing Co.	xiii
Gunsburger, Emil.	xv	Sierra Lumber Co.	vi	Sidewalk Lights	xiii
Brick Preservative	xiii	Mantles Tiles, Etc.	xiv	P. H. Jackson & Co.	xiii
Cabot's.	xiii	Montague & Co., W. W.	xiv	Sliding Door Hanger	ix
Cement	vii	Jateman.	xiii	Stowell.	x
W. R. Grace & Co.	vii	Metal Lath	iv	Terra Cotta.	xi
Chimneys Patent.	xii	Western Expanded Metal Lath and Fire	iv	Gladding, McBean & Co.	xi
Clawson.	xii	Proofing Co.	iv	Tin Roofing.	ii
Door Opener	viii	Mortar Color	xiii	N. & G. Taylor Co.	ii
G. Rischmuller.	viii	Paint.	viii	University	vi
Engineers.	xix	L. R. Butcher and Co.	viii	Harvard.	vi
Tilton, Chas. S.	xix	G. Orsi.	vii	Ventilators.	xvii
Filters.	x	Paraffine Paint Co.	ii	N. & G. Taylor Co.	xvii
Rapid Safety Filter Co.	x	Fuller & Co., W. P., & Co.	xvi	Water Closets.	xiii
Furniture and Upholstery.	xv	Paper.	viii	John Douglas Company.	xiii
Bateman, W.	xv	Zellerbach & Sons.	viii	Window Cord.	xvi
Hardware	v	P. and B. Building Paper.	xiii	Samson Cordage Works.	xvi
Yale & Towne Lock Co.	v	Cabot's Sheathing and Deadening Quilt.	xiii	Windows—Revolving	xii
Heating and Ventilating	xii	Plaster.	xiv	J. E. and L. L. Kennedy.	xii
W. Morgan & Co.	xii	Lucas & Co.	xiv	Wood Preservative	xii
		Plumbers and Gasfitters.	xix	Cabot's.	xii
		Hobbs, W. D.	xix	Pacific Refining and Roofing Co.	xii
		Gulich & Wetherbee.	iii		

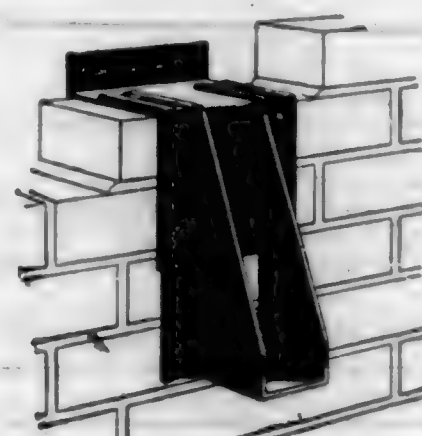


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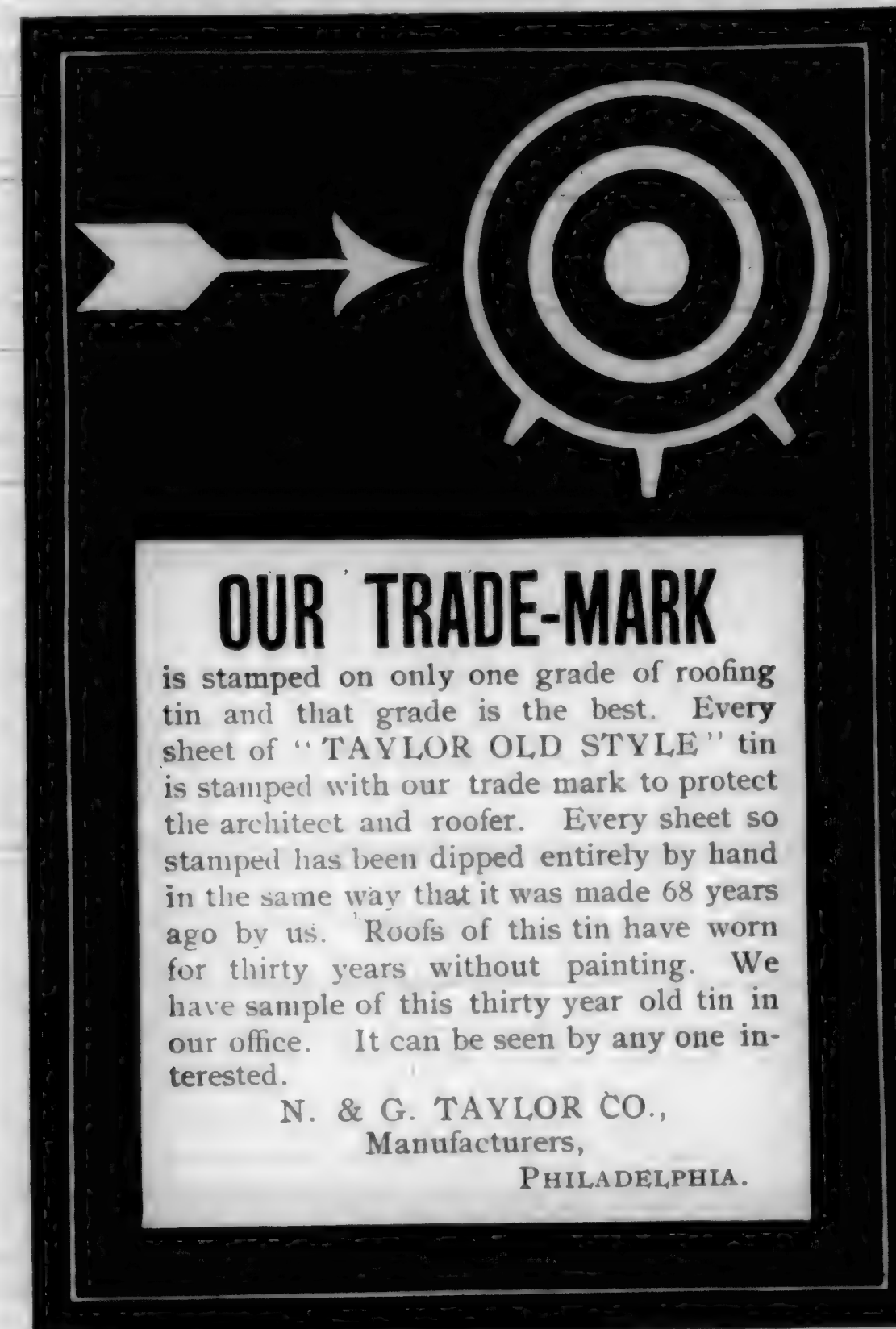
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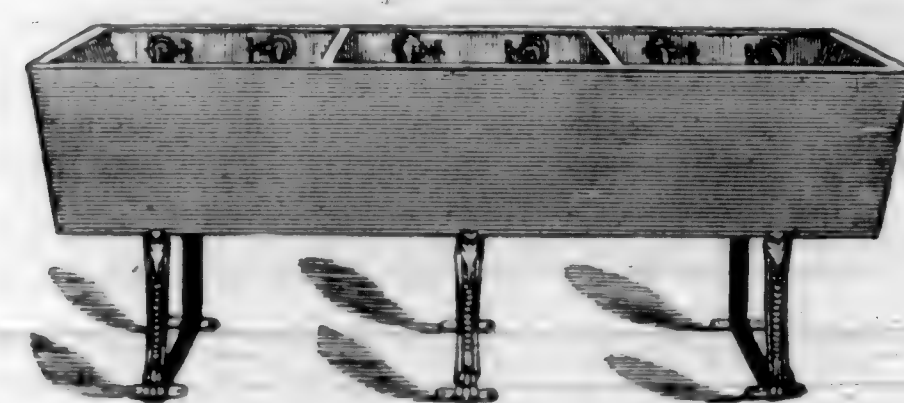
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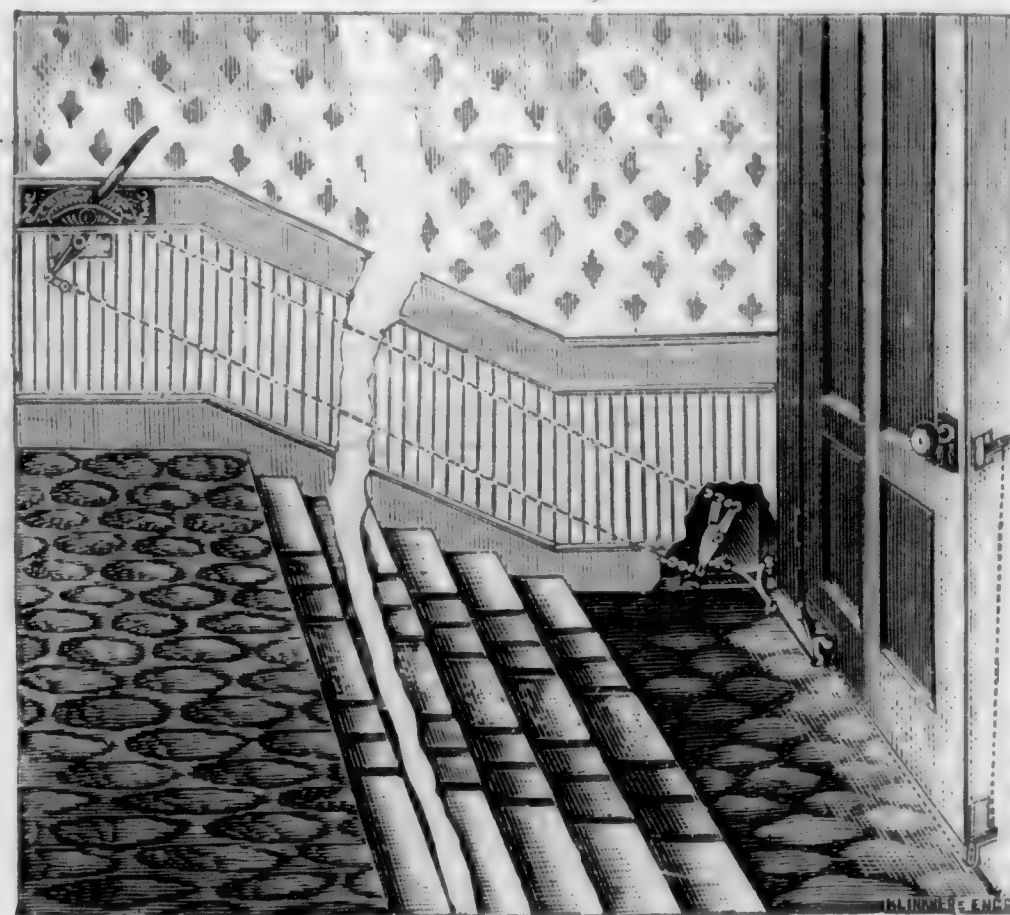
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THE
CALIFORNIA ARCHITECT
AND
BUILDING NEWS

ESTABLISHED IN 1879

PUBLISHED ABOUT THE 20th OF EACH MONTH
BY
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ESTABLISHED IN 1879

NOW IN THE NINETEENTH YEAR.

VOLUME XIX.

NOVEMBER 20th, 1898.

NUMBER 11.

A MONTHLY JOURNAL DEVOTED TO THE ARCHITECTURAL INTERESTS OF THE PACIFIC COAST.

CAUTION—Pay no money to persons representing themselves to be connected with the CALIFORNIA ARCHITECT AND BUILDING NEWS unless a written authority to receipt for the same is shown and accept no receipt unless it be on our printed blanks. All Checks and Drafts are to be made payable to the order of E. H. Burrell.



THE SUCCESSFUL architects who participated in the great Hearst competition and gained the coveted rewards have all arrived on this side of the Atlantic and by the time this number of the CALIFORNIA ARCHITECT AND BUILDING NEWS is issued most, if not all, of the visitors will have reached this city and be busily engaged in studying the environments of the University of California at Berkeley. It is said that before leaving Europe all the successful competitors arranged to meet in New York the latter part of November and then proceed in a body to California. The date of arrival will be duly announced. Beyond a corporation reception presided over by Mayor Phelan, which, it is expected, will be tendered the distinguished strangers, no general movement seems to have been made for entertaining them by local architects so far as heard from. Perhaps it is thought that a welcome from personal members of the profession will answer every purpose but it appears to us that

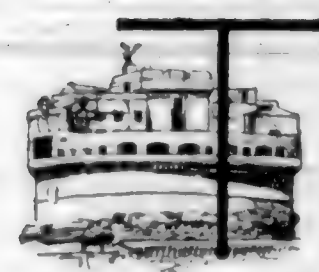
the opportunity for a combined and representative acknowledgment of the presence of the strangers would be a highly gracious attention to accord. The Hopkins Art Institute could be secured for the purpose and every student of architecture ought to be allowed the chance of making the acquaintance of these giants of the profession and to listen to the words of wisdom and enlightenment that is sure to fall from their lips. The hospitality to be extended to these eminent men ought to be equal to that displayed by the people of the Dutch metropolis at least. But this can safely be left to the right feeling of our local architects, who will remember that the reputation of California hospitality is very great and extended and that it will be their pleasant duty to see that it suffers no diminution at their hands.

The presence of these accomplished gentlemen ought to be of equal value to themselves and to local architects as well. They will be interested in observing the adaptation of the rules of construction to the peculiar conditions that exist here unlike as they are, to those of any great capita

in the world. Neither need our architects be ashamed of the results of their labors. There are plenty of examples among our public buildings, mansions and business blocks that are monuments of original design and difficulties overcome. Fortunately there are but few "gems" of architecture like the Chronicle and Hearst buildings to blush for, but such blemishes are more than offset by others which are the admiration of every one who makes building construction a serious study.

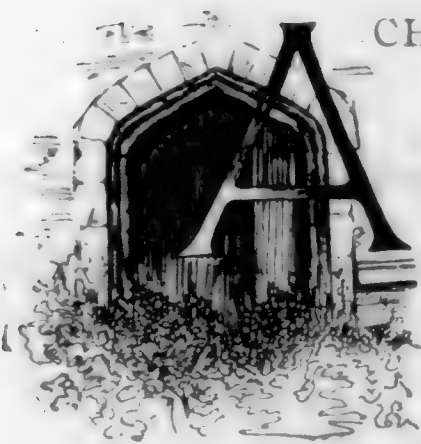
The impression that the splendid site of the University will make upon these gentlemen can be faintly imagined. Such another location, no institution in the world possesses. A combination of vast extent of mountain, sea and plain, is rarely to be witnessed. It will be an inspiration that will be quickly grasped by the strangers and their designs can but receive added beauty and increased impressiveness after personal contact with the sites and scenes where their mental embodiments are to take visible shape.

DESTRUCTION OF THE BALDWIN.



THE total destruction of the Baldwin Hotel by fire is to be regretted. That such a fate was to be the ultimate destiny of this building was fore-ordained. It was a monument of lavish expenditure and depraved architectural methods. The destruction is so complete that a new structure will now be required. The location is unequalled for hotel purposes and a new one surpassing in magnificence anything in the west will probably take the place of the building that is to day in ashes. The site for a grand opera house could not be excelled. It is to be hoped that when the new hotel is planned a dramatic and musical temple will be part of its equipment. The site is too central to remain unoccupied longer than the time required to replace the odd structure. California architects will here have an opportunity for acquiring new distinction.

PASSING OF THE OLD BUILDINGS.



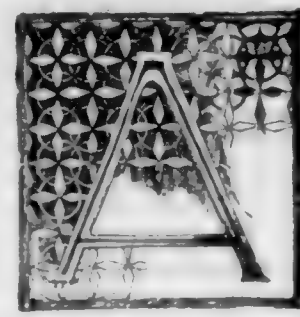
CHEERING indication of the general revival of faith in the future of this great city is the fact that numerous owners of down town buildings that were at one time occupied as offices, professional or otherwise, are contemplating, in many instances, either total demolition of their out-of-date holdings or else such a transformation or rearrangement of the interiors as to make them quite as desirable for business purposes as those lofty and complete structures that have been erected during the past three years in other sections of the city. It would seem that the natural wholesale center is in that section bounded by Market, Kearny and Clay streets and there is no reason why it should not remain within these boundaries for all time unless the business public should be driven away by a lack

of proper facilities for transacting their commercial affairs. It ought not to be forgotten also that in these days of telephonic connections the necessity of a location within easy proximity to the center of exchange is not so great as formerly. It might be remembered also that within the past forty years one change has been made that carried the commercial center from Dupont to California street and there is nothing to prevent the same thing happening again. The actual trend of finance is to the south of California street. Banks and other financial institutions are slowly but surely moving in the direction of Market street where the crowd is concentrating. The new Federal buildings at Seventh and Mission will have a powerful influence upon locating a new business center. Something ought to be done towards retaining what is left of California street as the commercial center and a general movement that will eliminate the old and obsolete office building as in order. The early architects of this city have much to answer for. There is hardly an architectural feature of the early days that could, with advantage, be retained. Such unscientific treatment of floor space as these early edifices show excites the derision of up-to-date architects.

The Merchant's Exchange is a conspicuous example of absolutely defective architecture. It ought to be torn down forthwith. Fully one half of its superficies is wasted. It occupies as much ground as the Mills building—compare the two structures as rent producers. It can be easily established that in replacing any of the old style buildings fully one half more space can be utilized in its present cubical area than now and not taking into account the possible increased height either.

Therefore it is to be hoped that the elimination of the old style building, so auspiciously begun will be continued until every one of "those monuments of early days" will be allowed to disappear. A chance is here given for the architectural adornment of the city's streets. Here a responsibility is laid upon the profession that should never be lost sight of.

DR. BAZET'S MICROBE HATCHERY.



At a recent meeting of the local Board of Health a proposal was made by Dr. Bazet, a member, to abandon the plan of erecting a stone or brick hospital for the county and substitute a cheap temporary affair built of wood that could be destroyed every "ten or fifteen years or so" and another built in its place. This process to continue indefinitely. The advantage gained being in the saving of cost between a first class and a make shift hospital. Dr. Bazet in his remarks advocating this plan of his on the occasion referred to, stated that a wooden hospital would be very cheap and could be made at the same time "very attractive". The learned doctor, however, neglected to state whether a wooden affair would be attractive to the patient or to the microbes, whose propagation was to be thus encouraged until such a time as the hospital became thoroughly infested when it would be burned down and another one erected. Such a hospital, Dr. Bazet advocated in the interest of science admitting that medical science was impotent in its capacity to remedy evils requiring only cleanliness and antiseptic solutions

for completely extirpation. Dr. Bazet is too competent a physician to have much faith in the claim of a certain medical charlatan, that he could cure by drawing the microbe responsible for the disease out of the patient with the aid of a powerful magnet but his proposition to make the conditions about his hospital "attractive" seems to indicate something of that sort.

Dr. Bazet's proposition seems to be open to serious objection in more than one respect. He deliberately favors a plan that encourages the accumulation of filth, a plan also that has never been adopted by any first class municipality in the world and that originated in the tropics as the fruit of military exigency which required certain precautions against the spread of virulently infectious diseases never met with in this latitude excepting in sporadic form. In the new hospital no infectious diseases will be treated, separate provision being made for occasional cases received. It would seem to be a mean thing for a great, wealthy city, like San Francisco, to ask the poor wretches dependent upon it for care during wasting illness, to go to a hospital no better built than a pioneer shack or an Indian tepee. The management of such a hospital would also be seriously affected by the temporary character of the buildings. The effort to keep affairs in perfect condition would be dominated by the knowledge that in a short time the hospital would be destroyed any way. Does the Board of Health wish to perpetuate the scandals, conflicts and corruptions which always accompany the erection of every municipal structure and leave such a legacy to their successors? Is it not known that in ten years a movement for the removal of such a temporary hospital would be demanded wherever it may be placed? Would Mr. Phelan care to distinguish his administration by a measure that would bring ridicule upon it forever or have his name associated with the only structure erected during his term of office that would require obliteration, on the score of public health, in ten years or so? It would be thought not.

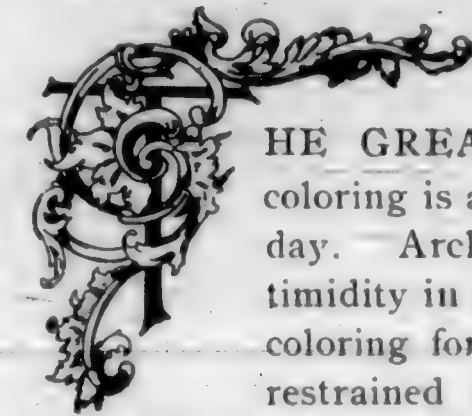
The fact is that Dr. Bazet's plan has been thoroughly considered by scientific minds on both continents, and it has yet to be learned, the Glasgow instance notwithstanding, of one single municipality that has even seriously considered its adoption. The great St. Luke's hospital of New York, erected at a cost of \$3,000,000, and the finest in the world, is one that will last for generations. The new Chicago hospital is permanent and the cities pride. London's hospitals are of the most substantial character and every where except possibly in China or India where plague is always rampant and where hospitals are necessarily temporary in their character, these monuments of the magnanimity of communities are strong, substantial and architecturally beautiful.

The plan of Dr. Bazet, to a layman, appears to be rather for the propagation and cultivation of diseased microbes, and designed to convey infection to the thousands of those unfortunates who in the "ten or fifteen years or so" will be obliged to accept its ministrations and through them the entire community will have to endure an ever present and increasing danger from infection.

A Draughtsman of experience desires to obtain employment in San Francisco or some California town. Would purchase an interest in an established office.

Address—C. E., CALIFORNIA ARCHITECT AND BUILDING NEWS.

COLOR IN STREET ARCHITECTURE.



THE GREATER attention given to exterior coloring is a pleasant feature of building of to day. Architects have heretofore, evinced timidity in advising the use of more positive coloring for decorating buildings or have been restrained from following their own artistic conceptions on the subject by property owners who, as a matter of course, have the final word and, as a general thing, hesitate to take the initiative in defying long established custom. It is a sign of progress in the right direction when color as an adjunct of street ornamentation is receiving more intelligent attention from the architect. The people of tropical or semi-tropical countries seem to understand this subject better than we of temperate zones. The bright colors either in combination or otherwise that are to be observed in all communities of Southern people is a feature of the most pleasing character to travelers and is frequently remarked. These people are simply following their own artistic instincts of beauty and fitness and while the effect is sometimes grotesque and extravagant yet the general result is bright, pleasing and cheerful.

The Saxon on the contrary is disposed to confine all color to the interior and to regard any effort to make the exteriors of their dwellings, otherwise then dull, as a violation of good taste. The Greeks, whose judgment in all matter relating to absolute correctness in art was undeniable even covered their temples, constructed of the purest Pentelican marble, with color and the statues of Phidias, in their opinion, derived added beauty from applied colors by making them more like the living subjects which these unequalled statutes were carved to represent. Under such skies as are usually to be observed in San Francisco where cloudy days are the exception and bright sunshine the rule, a greater latitude in color for outside adornment ought to be permitted. Market street, from the ferry to Sixth represents a most monotonous effect of color, occasionally a yellow or brick red but almost altogether drab, cheerless, dispiriting, inartistic. There are some bright instances of street color, notably on the crest of California street, where half dozen handsome structures afford an example of the pleasing effect of decided tints. How much would be added to the appearance of the new City Hall if, instead of an exterior covering which now only emphasizes the cheap material of which it is constructed and detracts from the real beauties which the edifice possesses, it were colored in white or a light terracotta. The expense would not be great and the result would be a distinct gain. There is a building near Mason and Ellis streets whose exterior is glazed brick of a deep bottle green. The effect is beautiful.

In the city of Mexico, opposite Hotel Iturbide, there is a mansion of a Mexican grandee, as large as the Flood residence and constructed in Spanish style, with a large patio in the center, filled with tropical foliage and protected from the street by a splendid wrought iron grill. The whole exterior of this house is veneered with light blue and white porcelain tile, imported from Paris at enormous cost but producing a most striking and beautiful effect. It would require great courage for a builder in this latitude to follow such an ex-

ample but there is no house in the United States that is its equal and very few builders that could afford it.

To make street color more effective will require time and the destruction of old established prejudices but that a harmonious result would be accomplished and the general appearance of our cities be greatly enhanced few will doubt.

MEMBERS OF THE ARCHITECTURAL STUDIO HARD AT WORK.

THE members of the Architectural studio of the Mark Hopkins Institute of Art have buckled down to hard work for the Winter season. At the last monthly competition held on November second nearly every member presented drawings and sketches which were ably criticized by Mr. Coxhead. The subject of the competition was "Given the intersection of two narrow and crowded streets to cut away the buildings on the corners so as to relieve the traffic and produce an imposing architectural effect. The schemes followed the plan of the London "Circuses" only they were octagonal instead of circular and the general criticism was that sufficient importance was not given to the skyline. The sketches were the preliminary studies for a park bridge, the subject of the next competition, finished drawings of which are to be presented on the first Wednesday in December.

The Class in History, after having pursued, under the direction of Mr. Sanders, the subjects of Prehistoric, Egyptian, Babylonian, Assyrian, Persian and Jewish architecture is now fairly advanced in the study of Grecian architecture. The life class still retains its hold on the members and is both profitable and interesting.

At a recent meeting it was decided to compile a paper for publication in the CALIFORNIA ARCHITECT AND BUILDING NEWS on the greatest architectural need of San Francisco. It is hoped that by showing how and where the architecture of the city may and should be improved that popular interest may be aroused that will result in many needed improvements and architectural reforms.

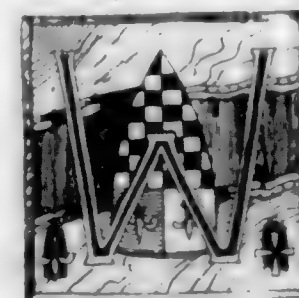
THE ACOUSTICS OF TRINITY CHURCH.



TRINITY Church in this city is one of the finest ecclesiastical structures in the state, and will comfortably seat nine hundred persons. It is built in the Old English style and architecturally is attractive and complete. Nearly \$200,000 is invested in the edifice and its splendid adornments. Its congregation is aristocratic, wealthy and influential and its rector, scholarly and devoted. Everything that the most exacting worshipper can possibly demand is found in this sacred edifice but, after the church building was newly occupied it was discovered that the acoustics were fatally defective and that no matter how loud the clergyman might shout only those in the immediate proximity of the chancel could understand what was said and even then but imperfectly. The sound everberated again and again and became a mixed jumble of dis-

cordant words. Even the tones of a powerful organ failed to make the proper impression and the most exquisite harmonies were distorted by the sharp and protracted echoes that followed the sounding of the key board. The result is discouraging to the last degree and efforts have been and are being made to remedy the evils or at least mitigate them. It is thought by some who have studied the case that the interior architecture of the church is faulty and that no absolute cure will be accomplished until drastic changes are made. Over the junction of nave and transepts there is a tower of large dimensions, open to the roof and extending several feet above the ceiling of the church. This tower forms a great square cavern into which the words of the preacher and the tones of the organ are first carried and are then shattered against the four walls into a mass of unintelligible echoes. It is believed that the whole fault lays in the defective construction of the tower. Some time ago, following the suggestion of an architect, the west walls of the church were hung with silk curtains but the result was not noticeable. Lately a sounding board was placed over the pulpit and an improvement was apparent at once. The sounds were thus carried away from the tower and into the nave. But the defects have not yet been entirely remedied. It is now proposed to string innumerable wires across the opening to the tower and possibly the effect of this experiment will be an improvement but architects generally are disposed to believe that nothing but an entire rearrangement of the architecture of the tower whereby the great opening may be completely or partially closed, will eliminate the distressing echoes and purify the acoustical defects. The problem is an interesting one and excites great interest.

THIRTY-SECOND ANNUAL CONVENTION OF THE AMERICAN INSTITUTE OF ARCHITECTS.



WASHINGTON, D. C., Nov. 1.—The proceedings of the Thirty-Second Annual Convention of the American Institute of Architects opened at 10:30 this morning in the Banquet Hall of the Arlington Hotel, with Mr. George B. Post, the President, in the chair, and with about 100 delegates in attendance from various parts of the country, among whom were: George B. Post, Robert W. Gibson, Julius Kastner, Wm. Martin Aiken, John M. Carrere, T. E. Crossman, Charles I. Berg, Edward Kendall, Henry C. McKey, New York; Alfred Stone, Ed. J. Nickerson, George A. Frederick, Edward F. Eley, Providence, R. I.; W. L. B. Jenney, Charles S. Frost, G. A. Trent, Robert Craik McLean, editor *Inland Architect*, Chicago, Ill.; A. W. Longfellow, Edwin J. Lewis, Jr.; A. G. Everett, H. Langford Warren, Boston, Mass.; C. M. Bartberger, Thomas Boyd, T. D. Evans, S. F. Heckert, Pittsburg; F. H. Young, Jacob Agne, Jr., Utica, N. Y.; C. A. Wallingford, Bernard Vonnegut, Indianapolis, Ind.; Guy Kirkhorn, Springfield, Mass.; A. W. Hayward, J. W. McLaughlin, George W. Rapp, Gustav W. Drach, A. O. Elzmer, Cincinnati, O.; Isaac Ditmaes, A. G. Thomson, A. Porter, L. D. DeCorb Berg, Walter Dickson, Brooklyn, N. Y.; Frank C. Baldwin, John M. Donaldson, A. W.

Chittenden, J. S. Rogers, Jr., George D. Mason, Detroit, Mich.; Addison Hutton, Frank Miles Day, Philadelphia, Pa.; Charles F. Swinefurth, Levi T. Schofield, Cleveland, O.; J. W. Yost, Columbus, O.; L. Boucherts, Youngstown, O.; J. Foster Warner, Rochester, N. Y.; J. H. Pierce, Elmira, N. Y.; E. C. Ernest Lamb, F. B. Pyle, A. Didden, T. F. Schneider, Robert Stead, James K. Taylor, James G. Hill, J. L. Smithmeyer, Washington, D. C.; M. S. Mahurin, Fort Wayne, Ind.; W. H. Conway, George H. Helme, Springfield, Ill.; E. B. Green, John H. Coxhead, C. Cary Buffalo, N. Y.; J. O'Rourke, Newark, N. J.; Robert E. Dexter, Dayton, O.; F. D. Allen, Juliet, Ill.; Prof. Trowbridge, Cornell University; Arthur N. Gibb, Ithaca, N. Y.; Henry Brunse, F. B. Noel Wyatt, E. G. Lind, Baltimore, Md.; N. W. Mortimer, M. S. Malewin, Fort Wayne.

The address of Welcome by Mr. J. C. Hornblower in behalf of the Washington Chapter, was short and to the point. This was followed by Commissioner Wight who said:

"I extend to the American Institute of Architects a hearty welcome on behalf of the District Commissioners of the District of Columbia and on behalf of the District itself, to all I give a kindly welcome, and venture to express the hope that it will be as agreeable for you to be with us as it is to us to have you here.

"Last week it was my privilege to welcome to the District another convention, that on Municipal Improvements. They took up for consideration the subjects of sewerage, street improvements, electric lighting, etc., all of which were important, and in which we, as a city were greatly interested, but not any more so than the matters that will be dealt with here by this Institute. This meeting of your Institute is very timely in coming to us when we have begun some important steps in the matter of the architecture of our public buildings. We have expressed ourselves as of the opinion that the designing of our public buildings and bridges should not all be the work of one person, and our experience leads us to believe that we have taken a wise step. We believe that the competition in the matter of public bridges and grounds should only be open to those who have shown that they were able to design such structures, so that the result may be designs that will be an addition to the architecture of this District, both as to beauty and suitability for the purpose for which they were designed.

"Another step upon which we insist is that there shall be no sky-scrapers in the District of Columbia; to that end we have enacted that the maximum height of buildings shall be 90 feet, unless on business avenues of 160 feet in width.

"We trust these matters will commend themselves to you and will receive your support. I therefore again welcome you in the name of the Commissioners of the District of Columbia."

PRESIDENT'S ADDRESS

"The programme of the Thirty Second Convention of the American Institute of Architects as usual requires that the proceedings shall be opened by an address from your president.

"On former occasions I have directed your attention to the unexampled rapidity with which the fine arts have developed in America since the first organization of this association, and to the prominent part taken by the architects in this development; to the growth of the association itself from a body weak in numbers and weaker still in the influence of its members individually and collectively, to an organization extending over the length and breadth of this

enormous country; an organization which has become a recognized power in all questions directly or indirectly pertaining to architectural art.

"I have directed your attention to the dangers which menace our art, and to the fact that if true to itself the future of the profession is clearly in the control of this Institute.

"I now desire to extend to its members my most hearty congratulations, for although a period of general depression in individual business, the past year has been marked by three events which will form an era in the history of American architecture.

"The wise Secretary of the Treasury, the present honored head of that Department which is the great builder for the Government, has not only established a most important precedent and practically made a public recognition of the fact that educated talent is essential to economy and success in the work of our profession, but more important still, that there should be no politics in art:—by the appointment of a Supervising Architect after a most careful and exhaustive competitive examination conducted by a specially appointed Civil Service Commission, consisting of a Board of Architects of recognized position in their profession.

"For almost the first time in the last three decades we have seen architects in private practice selected by fair competition judged by expert jurors, for the design and erection of Governmental buildings. A practical recognition of the fact for years asserted by the unanimous vote of the profession that worthy architecture cannot possibly be secured, except by accident, from a Government office; no matter how great the ability of its chief, where the mass of business in the maintenance and repair of existing buildings is so enormous that the work of design is of necessity largely delegated to assistants. Under these circumstances excellence must be at best a lottery.

"In all ages and in all countries employment for the design and erection of Government work has been the maximum reward of professional distinction. Consequently the structures erected by the Government of a country have been generally and properly accepted as the most reliable and decisive proof of the civilization of the period and race by which they were produced.

"Alas for the verdict of future ages upon the excellence of the art and civilization of America in the latter half of the Nineteenth Century, if judged by such monuments as the Pension Building and the Post Office, and the great majority of structures erected from designs prepared in the offices of our Government.

"Unfortunately these buildings are built with extravagant excellence and will stand for ages a travesty upon the art of the country, a reproach to the intelligence of those in power who have refused to listen to the urgent and repeated opinions of those qualified by education and experience to give advice, and have persistently refused to use the means always at their hands to procure designs which should at least represent the average skill and economy daily shown by the architects of the country in private practice.

"It is the clear duty of this body, the great representative society of American architects, never for an instant to relax its efforts until such time as the creation by the Government of such artistic monstrosities shall be impossible.

"We have seen by the recent precedent established by the Treasury Department that persistent protest and untiring effort will surely bear its fruit.

"This Institute should never pause in its exertions until Congress has passed the necessary amendments to make it

mandatory that for the design and construction of each important building to be erected by the government in any of its departments, there should be appointed directly or by limited competition, an architect whose ability has been thoroughly proved by success in private practice, and that the fees paid for his services by the Government shall be those recognized throughout the civilized world as the proper and just recompense for such services—the fees rehearsed in the Schedule of Charges of the American Institute of Architects, and uniformly paid by individuals and corporations in all of our great business centres.

Provisions should be demanded for the appointment of proper juries of award composed of experts in the case of all competitions, and to provide for the expenses of such jurors as well as for the payment of a moderate and proper fee.

For the first time in its history the Institute has established a permanent headquarters. As is eminently proper the permanent home of the national organization is located in the National Capital.

In the march of events the institution has outgrown its old code of laws and under a new constitution you are called upon to consider a new code of by-laws. It is a matter of regret that so large a part of the time of this convention must be of necessity devoted to this subject, and it is earnestly hoped that your consideration of the subject may be so careful and your decisions so wise that the time of future conventions may be free for the discussion of the mass of subjects of more general interest than the minute details of interior organization.

This left the meeting open for the general order of business, which opened with the report of the Board of Directors, read by Mr. Alfred Stone, the genial secretary of the Institute, who is so ably fitted for the responsibilities of the arduous position which he occupies.

The report is as follows:

"To-day the Institute enters upon a new era in its history which is fraught with no little anxiety. The step it has taken without precedent, as no similar society has broken away from the commercial metropolis of the country and established its home in the National Capital. It may therefore, properly be called an experiment, and is one that will depend for its success upon the individual and united efforts of the members of the Institute, and may easily prove to be a failure without such effort. The first way in which it may make itself manifest is by an increase in its membership, which the proposed by-laws, if adopted, will facilitate. It is only by a membership large in numbers and representing the best equipped members of the profession who not only combine to a high degree professional skill and training, but exalted views as to the ethics of the profession that the Institute can realize the full advantage of its mission and reap the benefits of its new departure.

The question of the present home for the Institute has been an ever-recurring subject for consideration, and many years ago an effort was made to procure a building fund, but not until after the passage of the following vote on February 11, 1898, was any real progress made:

"Voted—That a committee of three be appointed by the president to secure a lease of the so-called 'Octagon House,' Washington, D. C., for a term of five years if possible, for a rental not exceeding \$360 per year, and with further power to formulate a plan, obtain funds and put the house in condition for occupancy."

It was also voted "That the committee be authorized to issue debenture bonds of small denominations to an amount

not exceeding \$5000, and that the form of the bond is to be approved by the Executive Committee before issuing the same."

In pursuance of that vote the president of the Institute, in accordance with instructions of the Board of Directors, appointed Frank Miles Day, Robert Stead and Wilson Eyre, Jr., a committee to procure a lease of the Octagon House and put it in a condition for occupation, and issue bonds to the extent of \$5,000 to meet the expense thereof. To-day we shall open and enter upon the occupation of our new home and the enjoyment of the fruits of their labors.

The passage of this vote was the outcome of the report of the Washington Chapter presented to the Board of Directors at that time. Among the advantages set forth in this report were: That it afforded the broadest field for the Institute to obtain national legislation in relation to art and construction; that it could here more efficiently advocate the establishment of a Government testing station and a National Architectural Museum, and would be in a position to make its influence felt in the methods adopted by the Government for procuring designs for national buildings, which has been so successfully inaugurated under the direction and by order of the Secretary of the Treasury, the Hon. Lyman J. Gage, an honorary member of the Institute and an efficient supporter of the best interests of the profession.

A fuller and detailed history of the movement and its results will be visible at the reception, to take place this afternoon, and will be heard in a report of the chairman of the committee which has so successfully accomplished the task set before it.

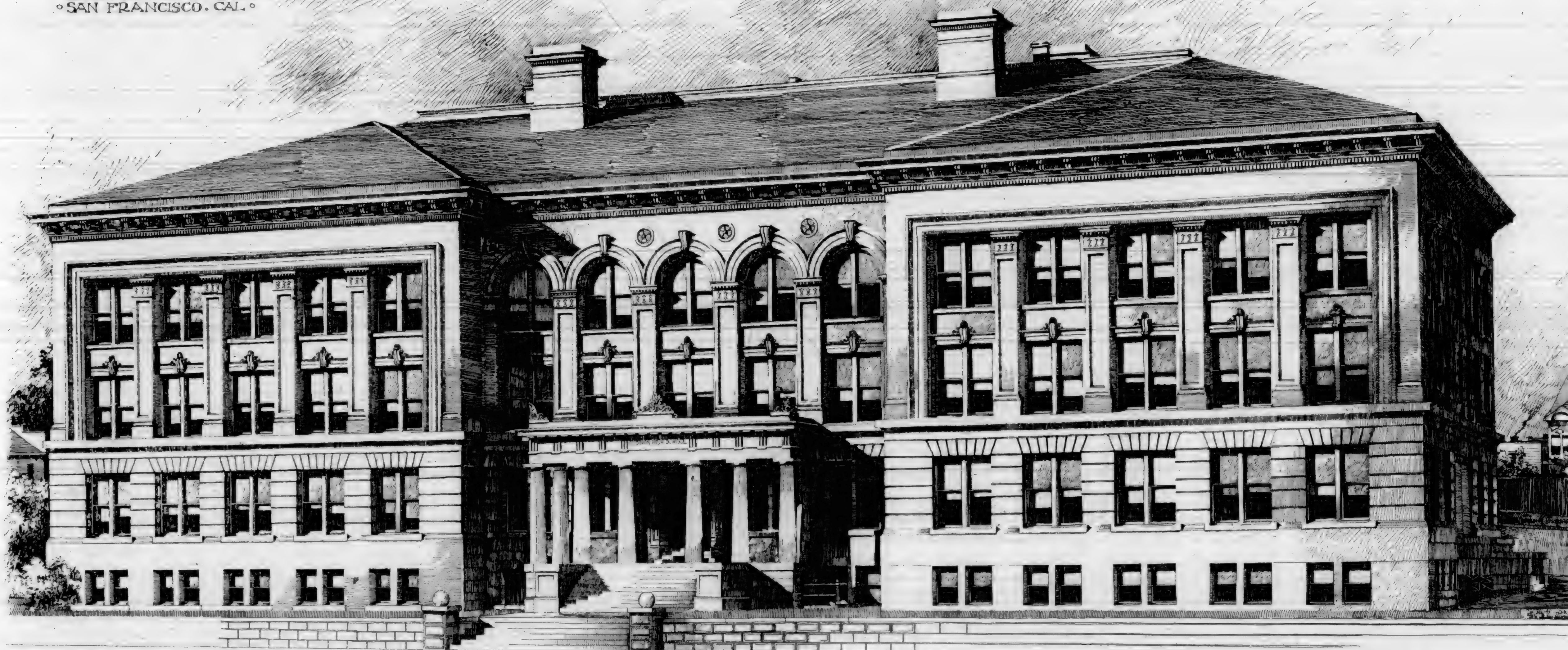
At the last annual meeting the conduct of the competition for the Pennsylvania State Capitol furnished an engrossing topic of consideration, but without producing the desired results. In fact, the outcome is, if possible, still more discreditable to the State than was anticipated, but in other quarters several notable competitions which have been conducted with fairness and in compliance with ethical rules of practice although they may not have resulted to the individual satisfaction of each and every individual competitor, and it is not improbable that the publicity which was given to the action of the Institute in the matter of the Harrisburg Capitol has not even greater effect than if it had resulted in the adoption or the course advised by the Institute.

The more than questionable conduct of the commissioners, their unjust treatment of its professional advisers, the defeat of the machinations of the firm that expected to capture the prize and the subsequent still more scandalous action of the commissioners has been an object lesson to what ends publicity and unfair dealings may lead, and it is believed that the State of Pennsylvania has but entered upon a gigantic scheme that will extend through many years and be productive of still other and larger results to the discredit of the State and with heavier demands upon its treasury. In view of the failure of the Pennsylvania State Capitol competition and the success of that for the New York Public Library building, it has been suggested by a distinguished member of the New York bar, that the Institute appointed a committee to have power to employ legal counsel to prepare a formal programme of competitions and have it recognized in legal enactments and ordinances authorizing commissioners to secure an architect by means of competitions; such an act or ordinance might make it legally incumbent upon a corporate body or even upon a State itself, to pay promised fee, which the State of Pennsylvania successfully dodged, with no legal redress for the architects employed by it. There is,

*Harmon & Locke
Architects 1891.*

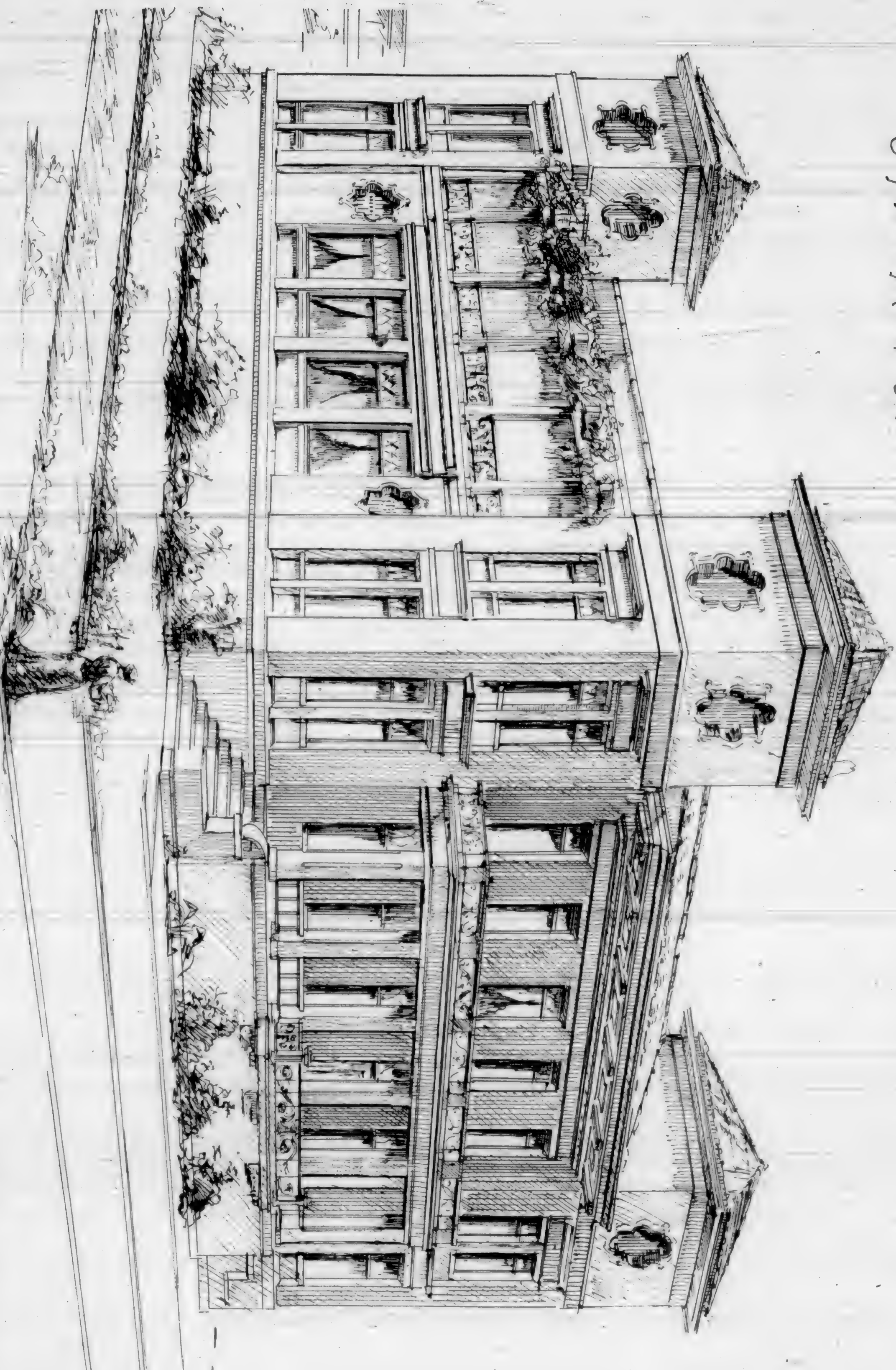


MISSION HIGH SCHOOL.
 CITY & COUNTY OF SAN FRAN-
 CISCO STATE OF CALIFORNIA.
 HAVENS & TOEPKE ARCHTS.
 ROOM 55 FLOOD BLDG.
 SAN FRANCISCO CAL.



Wm. H. Toepke '98

COUNTRY RESIDENCE.
J. Murray, Archt S.F.



CALIFORNIA ARCHITECT & BUILDING NEWS
SAN FRANCISCO

BARTON & CO. PHOTO-LITH.

VOL. XIX NO. 11 NOVEMBER 1898

however, something stronger than legal enactments by State or city, and that is the recognition of the unwritten law of ethics which a professional body establishes for its own conduct, and which will be respected by the public and will be complied with to just that extent with which it is respected by the profession and complied with by its practitioners.

It may be expedient to procure legal enactment; it is imperative that our practice be in accordance with professional ethics.

The letter ballots on the adoption of the amendment to the constitution have been opened and it is found that the amendments have been adopted with but eight negative votes out of 131 ballots sent in.

The consideration of the revised by-laws will be brought to your attention, and it is trusted that such action will be taken as will save the Institute from the necessity of devoting the time of its annual conventions to changes therein, and will insure a large and permanent increase in the membership of the Institute.

The deaths among the Fellows of the Institute since the Detroit Convention have been F. A. Coburn, of Cleveland, O.; Alfred Smith, of Chicago, and Elbridge Boyden, of Worcester, Mass. The latter was probably the oldest member on the rolls of the Institute, and contemporary with him was William W. Boyington, of Chicago, a former Fellow of the Institute, who died in Chicago on October 16, in his eightieth year. A memorial and resolution to his memory, prepared by Mr. P. B. Wight, F. A. I. A., has been received from the secretary of the Illinois Chapter.

The death of Oliver C. Smith, a Fellow of the Institute, occurred on December 1, 1896, but was not known to the secretary until after the publication of the proceedings of the thirty-first convention.

M. Charles Garnier is the only person among the honorary members of the Institute who is known by the secretary to have deceased during the year.

This was followed by the report of the treasurer, which showed that the receipts from September 10, 1897, to October 22, 1898, amounted to \$3,916.08, the expenditure to \$3,334.01, leaving a balance in the treasury amounting to \$582.07. A separate statement was made by the treasurer on account of the expenditures and receipts for the Octagon House, whence it was shown that the receipts up to date amounted to \$1968, the expenditures to \$325.50, leaving a balance on hand of \$1,642.50.

The report of the treasurer was referred to an auditing committee composed of J. G. Hill, C. I. Berg and Geo. A. Frederick.

Next on the programme was the reports of chapters, which was given in condensed form by the secretary, taking the chapters in their chronological order, as follows: New York, Philadelphia, Illinois, Boston, Cincinnati, San Francisco, Indianapolis, Washington, Michigan, Central New York, Buffalo, St. Louis, Pittsburg, Central Ohio, Worcester, Colorado, Southern California, and Brooklyn. These reports were referred to a committee to be appointed later.

Next in order came the report of standing committees, the first of which consisted of a humorous report from the chairman of the committee on foreign correspondence, which included extracts from the circular received by the committee during the past summer, calling attention to the First International Convention of Public Art, which was held in Brussels on September 24-28, and to which an invitation was extended. The report of that congress has not yet been received.

The report on education is laid over until later in the meeting.

The report on publication and library, as presented by its chairman, Frank Miles Day, is as follows:

"As chairman of the committee on publications and library, I beg to report that no meeting of the committee has been held, as no useful purpose would be subserved by bringing the members together. So far as the library is concerned, it is the condition shown by the report of the committee last year. As soon as the Octagon House shall have been put in repair the committee will endeavor to get together all the books and papers of the Institute, and will, with the approval of the Board of Directors, fit up a suitable library in the building.

"Regarding the relations of this committee to the publications of the Institute, we would say that the publications appear to consist entirely of the annual report, which is so adequately prepared by the secretary that the relation of the committee on publication in regard to it is merely *pro forma*."

No report was presented by the committee on conservation of public buildings, and the committee on building laws asked to be allowed to make their report later. No report was made by the committee on arts and sciences, but a paper was presented by that committee which was a review of the progress made in civil architecture and the decline of ecclesiastical architecture during the last half-century. The matter was ruled out of order at the present stage of the proceedings, and will be taken up later.

Alfred Stone, the delegate to National Conference on Standard Electrical Rules, made the following report:

REPORT OF THE DELEGATE TO THE NATIONAL CONFERENCE ON STANDARD ELECTRICAL RULES.

"The delegate of the Institute to the National Conference on Standard Electrical Rules attended, by invitation of the architectural committee of the National Underwriters' Association, a meeting of said committee, and took part in its deliberations and the consideration of the National Electrical Code.

"It is the desire of the conference that the Institute shall elect a delegate to represent it at future meetings of the Conference, or of the electrical committee of the Underwriters' Association, for the purpose of taking part in the deliberations for the amendment of the code as occasion may require.

"There has been no expense incurred on account of the representation during the past year."

(Signed) ALFRED STONE,

Delegate to the National Conference on Standard Electrical Rules.

OFFICERS ELECTED.

The following officers have been elected: President, Henry Van Brunt; First Vice-President, W. L. B. Jenney; Second Vice-President, J. W. McLaughlin; Secretary and Treasury, Glenn Brown; Auditor, two years, S. A. Treat; Auditor, one year, E. H. Kendall; Directors—one year, Frank Miles, T. D. Evens, Joseph C. Hornblower; two years, Robert W. Gibson, Levi T. Schofield, W. M. Poin-dexter; three years, George B. Post, Arthur G. Everett, W. C. Smith. Place of next meeting Pittsburg.—*Architecture and Building*.

Subscribe for THE CALIFORNIA ARCHITECT AND BUILDING NEWS for the year '98.

OBITUARY.

THE architectural profession in San Francisco learned with regret of the untimely death of Mr. W. H. Lillie, one of its most promising and respected members. Mr. Lillie was but thirty-six years of age and had during his professional career acquired a most enviable position as a studious, honorable and conscientious architect. One of the last works of importance that he designed was the Masons Home for Widows and Orphans at Decoto which will ever remain a monument of his skill and judgement. The city is full of beautiful examples of his fertile mind. The obsequies were held by the order by which he was most affectionately regarded and his remains were followed to the grave by a large number of deeply grieved and devoted friends.

TRADE NOTES.

THE new Ferry Depot has just been fitted up with Clawson's Patent Revolving Ventilator with fan attachment. These ventilators receive their power from the wind and are continually acting day and night, thereby having pure fresh air in circulation all the time. They give entire satisfaction wherever used and are always open to public inspection.

ATTENTION is called to the advertisement of the Bolles Revolving Sash Company appearing for the first time in this issue. Messrs. J. E. & L. L. Kennedy have recently established agencies in this city and Los Angeles and make a fine showing of work done in the east. The sash in operation is shown in their office in this city where can also be seen their full line of overhead and mullion pulleys and various specialties in window hardware.

THE ATTENTION of our readers is called to the advertisement of N. & G. Taylor Co., Philadelphia, manufacturers of the "Taylor Old Style" brand of Roofing Tin. Their trade-mark of the target and arrow is quite familiar to our readers; each sheet is stamped, or embossed, with this trade-mark; the thickness 10 or 12; the brand "Old Style", and the name of the Manufacturer N. & G. Taylor Co., Philadelphia. This is done for the protection of architects, roofers, property owners, etc.

Messrs. N. & G. Taylor Co. were the originators of the idea, and were the first to put into practice the stamping of sheets of roofing tin with the name of the brand and the thickness. They have handled this kind of tin for the past sixty-eight years. It is the heaviest coated plate made, and manufactured entirely by the palm oil process. No roller machinery are used each sheet being dipped and re-dipped, by hand labor in open pots of metal of different degrees of temperature. It has other merits which our limited space will not allow us to describe, but which entitle the brand to the confidence of the trade. This firm can point to roofs in the old parts of Philadelphia, covered with this same kind of tin that are just as good to-day as when first put on nearly seventy years ago. They have samples in their office testifying to this fact. They have agencies in every large city from Boston to San Francisco.

To those wanting a tin roof that will last a life time, we advise their using this brand. This firm are represented in our city by Mr. Chas. J. Waterhouse, 421 Market street.



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.

MISSION High School, Havens & Toepke, Architects.

FLATS, Havens & Toepke, Architects.

COUNTRY Residence, J. Murray Architect.

HOTEL GREEN, PASADENA.

HOTEL Green began in a small way, and was originally known as Hotel Webster. In 1888 it was purchased by Col. G. G. Green. He built in 1890 a brick and stone addition to the northern end of the building, which, when completed, more than doubled the capacity of the hotel. The name was changed to Hotel Green shortly after its purchase. The improvement continued. Property directly across the street was purchased and a beautiful park, with fountains, trees and flowers, was laid out and named Hotel Green Park.

When the Colonel visited Pasadena last year its marked development and growth impelled him to have constructed in the center of the park an annex, unequalled by any hotel on the Coast in point of elegance and completeness.

The two buildings are connected by a steel bridge 205 feet long, which is high enough to allow the Pasadena and Los Angeles electric cars to pass under it, trolley and all. The Annex is six stories in height, with a roof garden. The exterior is beautiful in architectural design, and lacks the tiresome similarity so frequent in large structures. The broad veranda, with its massive columns, on the eastern and

southern sides of the first floor; the sixty wrought-iron balconies, opening out from every suite of rooms in the building; the elaborate staff work, the greenery of the roof garden, the copper domes of the two southern towers and the picturesque file of the projecting roof, all combine to produce an imposing and luxurious effect.

The Moorish design is carried out in detail from top to bottom. The building is absolutely fire-proof, being constructed of steel, stone and brick. The skeleton of the structure is made of 1,460,000 pounds of steel, riveted together in such a manner that were it turned over it would still remain intact. The walls are of plaster and expanded metal, 60,000

which, with a rapid transit elevator, makes any portion of the house accessible quickly and easily.

Perhaps the most interesting portions of the building are the basement and the roof garden, two extremities. In the one may be found a double, standard-gauge bowling alley and a shooting gallery, while on the other the beauties of the whole surrounding country are at hand, to be enjoyed amid flowers, in the fresh breeze of the after-noon. In the middle of this garden the ball room, or sun parlor, is located. It is a room 60x60, entirely covered with glass. Its western side is a wall of windows, while on the east there are seven doors opening upon a pleasure balcony. The north and



GREEN HOTEL ANNEX, PASADENA, LOS ANGELES CO., CAL.

FREDERICK L. ROEHRIG, ARCHITECT.

square yards of the latter being used. Ninety thousand feet of expanded metal is used in the floors, which are finished in cement. Fifty tons of channel iron are used in the partitions, and 1,250,000 bricks are contained in the structure. The fact that 3000 barrels of cement were consumed demonstrates the strength of the floors and the general construction. Four hundred tons of Alpine plaster are contained in the walls.

The ceilings of all floors but the first are ten feet high, and the first is fifteen. Crossing the broad veranda one meets in the vestibule with the exquisite onyx finish. The main stairway is directly opposite the vestibule and is ten feet in width. It is made of steel, with a wrought and cast-iron railing topped with heavy oak. The steps are fourteen inches in width, with a six-inch rise, and are of marble.

There is also a stairway in the north end of the building

south ends are open to the roof garden by arched doorways, and in the northeast corner is a circular alcove for musicians. A canvas has been made to fit the northern end of the roof garden, and on special occasions, when the nights are warm, the guests may dance in the open air under the rays of the full moon. Seven flagpoles have been set at various places around the railing, and the whole garden is naturally adapted to elaborate decoration and brilliant illumination when occasion demands. In the northwest corner of the basement is the bicycle room, which is approached by a gradual decline.

A better water supply than this hotel has could hardly be wished for. On the south end of the annex roof are two tanks, each of 3000 gallons capacity. Water is pumped into these by power generated at the power house. From here the water flows by gravity into two tanks on the other build-

ing, which is somewhat lower. These tanks also hold 3000 gallons each and, as they are fitted with ball valves, are continually full. The water is all filtered before going into the tanks and is then filtered again when necessary. This makes a water supply for the two buildings of 12,000 gallons which is never allowed to lower.

One of the many novel conveniences of the hotel is the underground tunnel, which connects the Annex with the main building. It contains a flat car, which can rapidly transport dinner trays from the culinary department, located in the main building.

NOTICE OF MEETINGS.

SAN FRANCISCO CHAPTER, AMERICAN INSTITUTE OF ARCHITECTS, meets second Friday of each month at 408 California street, at 4 p. m.

SETH BABSON, Pres. H. A. SCHULTZ, Vice-Pres.
OLIVER EVERETT, Sec. JOHN M. CURTIS, Treas.

SOUTHERN CALIFORNIA CHAPTER AMERICAN INSTITUTE OF ARCHITECTS, meets first Wednesday of each month at 114 Spring street, Los Angeles, Cal.

THEO. A. EISEN, Pres. ARTHUR B. BENTON, Vice-Pres.
WILLIAM C. AIKEN, Sec't. AUGUST WACKERBARTH, Treas.

WASHINGTON CHAPTER AMERICAN INSTITUTE OF ARCHITECTS, regular meetings at 8 o'clock P. M., the first Friday of each month, except July and August.

JOS. C. HORNBLOWER, Pres. JAS. G. HILL, Vice-Pres.
E. W. DUNN, Jr., Sec. W. J. MARSH, Treas.

ASSOCIATION OF ARCHITECTS OF ARIZONA, meetings held at Phoenix, Arizona.

D. W. MILLARD, Pres. T. H. MADDOX, Vice-Pres.
W. R. NORTON, Sec. and Treas.

BOOKS AND PERIODICALS.

The complete novel in the December issue of LIPPINCOTT'S is by Annie Eliza Brand, and has its action mainly in London. "Mrs. Russell's Sister" is a young, well-to-do and attractive widow, who takes a small house in a back street with a view to benefiting her humble neighbors; but her philanthropic efforts are apt to require masculine assistance, and all her fortitude cannot keep her lovers at a distance.

SEWERAGE AND SEWAGE DISPOSAL is the title of a new book, by Henry Robinson, on a subject matter which relates to both house and extensive land drainage. The work is confined, as far as possible, within the limit of

data implied in the title, although in dealing with River Pollution and Filtration of Impure Water, the allied subjects of Water Pollution and Sewage Purification necessarily overlap. Mr. Robinson summarizes the chief conditions requiring to be complied with in the drainage of houses and in the sewerage of towns. The calculations of flow in sewers are also dealt with, and the diagrams at the end of the book of discharges and velocities in oval and circular sewers will enable results to be rapidly scaled.

Considerable portion of the work is given to the best methods of profitably utilizing sewage for the fertilization of land for agricultural purposes; various schemes are discussed from the standpoints of economy, effectiveness, and practicability; copious illustrations are drawn from the experience of cities both in Europe and America. The book is published by Spon & Chamberlain, 12 Cortlandt street, New York, and is for sale by them at the published price of \$4.50.

THE DAY OF VENGEANCE—This volume certainly will be valued for its extensive collection of facts and figures relating to almost every phase of social, political, financial and religious matters, as they bear upon the present situation. Nor are these dryly stated; on the contrary they are introduced in such a manner as to fascinate every reader who is at all interested in the consideration of the wonderful events of "our day." Popular edition 35 cents; in cloth binding, embossed \$1.50 at all bookstores.

TESTS OF CAST-IRON COLUMNS.

A VERY important series of tests of cast-iron columns has recently been completed at Phoenixville, Pa., by the department of buildings of New York city, and from an extensive account given in *Engineering News* we make some abstracts.

Three sets of columns were tested to destruction in the hydraulic testing machine of the Phoenix Bridge Company, these being respectively 15 feet 10 1/4 inches long by 15 inches in diameter; 13 feet 4 inches long by 8 inches in diameter and 10 feet long by 6 inches in diameter; the thicknesses varying from 1 1/16 inches to 3/4 of an inch. In the first group were two columns taken from the "Ireland Building," which collapsed in the summer of 1895, in New York, and four similar ones cast for the purpose of the test, while the second and third groups each consisted of two columns of kinds used in regular building construction, made by well-known firms, and were fair samples, coming within the provisions of the law.

The data of the tests are tabulated in the paper referred to, and some of the salient features may be especially noted. With but two exceptions the thickness varied materially in different portions of the same column, so that in one instance the metal on one side was 1 1/4 inches thick, and on the other only 3/8 of an inch; and, although this was an extreme case, there was a decided irregularity of thickness, which probably affected the strength materially. All of the 15-inch columns were broken, except one, which was nearly uniform in thickness, and which remained intact at the maximum pressure of the testing machine—a load of more than 2,082,000 pounds, or more than 40,000 pounds per square inch of area. The breaking load of the others of this group varied from 25,000 to 30,000 pounds per square inch, the variations being apparently due to the presence of cinder, foundry dirt,

chaplets, and blow-holes. The smaller columns were all broken with loads ranging from 22,000 to 32,000 pounds per square inch of area.

According to the building law of the city of New York, the strength of all columns and posts is to be computed by Gordon's formula, using a co-efficient of 80,000, and a factor of safety of five for cast iron. The application of Gordon's formula, under these conditions, to the columns tested shows that the 15-inch columns should have a breaking strength of 57,000 pounds per square inch, instead of which it actually ranged from 25,000 to 40,000 pounds; while for the 6-and-8-inch columns the breaking strength by the formula should be 40,000 pounds per square inch, instead of 32,000 to 22,000 pounds, as shown by the tests.

Had these columns, therefore, been loaded as heavily as the law permits, the factor of safety in some cases would have been only a little more than 2, instead of 5 as intended. Judging from the physical description given of the columns tested, this discrepancy is much more likely to be due to the defects in the castings than to the inaccuracy of the formula, and apparently a requirement for better material and more carefully made castings would raise the strength nearly, if not quite, to that indicated by computation.

An interesting feature of the paper is the description of the calibration of the Phoenixville testing machine by comparison with the Emery testing machine in the United States Arsenal at Watertown, Mass. This calibration was effected by testing a special soft-steel Phoenix column, first at Watertown and then at Phoenixville, using a roller extensometer reading to 0.0001 inch, the conditions being reproduced as nearly as possible in the second test, and the same extensometer being used. The result showed the gage readings of the Phoenix machine to be from 15 to 17 per cent higher than the actual values, this being due to friction of the machine and possibly to gage error. By using this correction, the tests at Phoenixville are made comparable with those at Watertown, with a possible error of about 3 per cent.

LESSONS FROM FIRE AND PANIC.

BY THE Factory Act, 1891, every new factory in which more than forty persons are employed must be provided on the stories above the ground floor with such means of escape in case of fire as can reasonably be required under the circumstance of each case. Every old factory must, after notice, be similarly provided, subject to arbitration in case of difference. The factory Act of 1895 extends these provisions to certain workshops and laundries. I think that the chief fatalities during recent years have been in factories employing less than forty, but there are other provisions for safety and for facilitating escape which may be put in force by the inspectors if the provisions above mentioned are not applicable. As to the application of these structural provisions, it has been said that if the workpeople on the upper floors are provided with means of getting to the ground floor they cease to be subject to the Act, but this view does not seem to be supported by the words of the Act, which require that such persons are to have "means of es-

cape," and the ground floor might be on fire and not available for that purpose. These persons therefore must have means of getting clear of the building either into a street, or by arrangement on to adjoining premises, or into an open yard of ample area. In a confined yard they would be subject to the glow and heat of the fire, and this is fatal. Many of the victims at the Paris Bazaar fire died in the open yard at the rear, which was of some size, but which afforded no shelter from the fire.

The circumstances of each case which the authority or the arbitrator is to take into account appear to be such as arise from the nature and quantity of materials used, the processes employed, the danger from lifts which will communicate fire and smoke, the numbers of workmen and workwomen respectively, and the description of the premises surrounding the factory. It is sometimes argued that "the circumstances of each case" which are to be taken into consideration include such as arise from the insufficiency or inconvenience of the site, the owners system of supervision, or other matters which might have been foreseen and provided against in the selection of the site or the construction of the building, and that allowances should be made for such matters of difficulty. But there must at any rate be means of escape, and those which may be sufficient in an ordinary case may reasonably be increased and not omitted if the site, or the buildings, or the system of management are worse than common. If a factory has combustible floors and roof, the requirements may be more stringent than if it is fire-resisting throughout. But unless the plan is satisfactory, the smoke from a very small fire will quickly spread, disabling the workpeople or causing a sudden panic, whether the building is fire-resisting or not.

Some of the causes of danger are the inflammability of the stock, the way it is allowed to accumulate so that insufficient room may be left even for passages, the chance that access to staircases may be cut off by the fire, the insufficient width of the staircases, the bad arrangement of their steps, and their liability to become filled with smoke. As in theatres, there should be alternative means of escape at different extremities of the building. Two rooms may be united by a doorway, each room having its staircase at the other extremity, or two buildings having their own staircases may be united by a bridge on each floor. Generally the staircases should be concrete, secondary staircases of minor importance being of oak or teak, the treads 10 inches, the risers 7 1/4 inches, the width 3 feet 6 inches to 4 feet 6 inches. There should be a fire-resisting enclosure to each, with self-closing doors opening by pressure in the direction of each, but not so as to obstruct the landings. The staircase should be well ventilated and should adjoin an external wall. If that is impracticable, it should communicate with the street by a very short passage of fire-resisting construction. The roof of the staircase should be fire-resisting. If iron or other fixed sashes are to be used some should be made to open, so that persons could be rescued by means of them.

I will here allude to other means of escape which are no doubt contemplated. Iron external staircases kept clear of windows through which fire can pass may be constructed. Movable fire-escapes are to some extent recognized, for the factory inspector may require them and the magistrate may order them. But these are things properly within the duty of the tenant, and do not seem to be what the acts require of the owner, whose duty it is to put his building into a proper state structurally. Movable escapes are not satisfactory as

substitutes for structural requirements. When a new staircase was demanded in an old building the occupier pointed out that there was a movable escape ready to be let down at one of the windows. When asked to show how it worked the window was found to be fastened down, and he proposed to send for a carpenter, who was in the basement. I need not enlarge on the risks of such contrivances when used by persons not in the frequent habit of using them.

Escape downward by means of the staircase being liable to interruption by fire and smoke, other means must be made available. Very little has so far been done to provide escape by the horizontal route towards adjoining buildings or upwards through the roof. To both of these there are, however, serious objections.

The London Building Act prohibits openings through party-walls between houses in different occupations; besides which, few people would run the risk of the improper use of such convenient modes of getting from house to house without the knowledge of the owners. The late Sir Henry Bessemer showed me an ingenious arrangement by which this last objection was sought to be removed. An opening only 16 inches wide by 3 feet 6 inches high was made in the party-wall at a foot above the floor level. On each side was a very strong iron door and frame, on the inner side of which was a pair of knockers. On an alarm of fire in either house the inmates would open their own door, and ply the knockers on that of the neighbor, who might be expected to come quickly to the rescue. The outside balcony is a much better arrangement, and if it could be generally adopted on each story, or only for alternative stories, there would be in most cases reasonable facilities for rescue. But the balcony, though a beautiful architectural feature, is almost unused in this country. It might cause apprehension of improper access from house to house or from room to room. I have, however, lived for many years in a district where every house has a spacious balcony above the ground story, and I have not heard of this objection. There is an easy means of passing from the window of one house to the nearest window of the adjoining house by fixing a short length of balcony between them crossing the end of the party-wall.

But the best means of escape after the staircase is by way of the roof, a good flight of stairs being provided to the roof door, which should have an automatic fastening. The Cripplegate fire happened to originate in one of the manufacturing warehouses which was first dealt with by the London County Council under the Factory Act of 1891. The two upper stories were occupied by seventy or eighty workgirls, and the owner willingly put a proper door to lead on to the roof. By this route he and they got away, and without it they must all have perished. But easy as it was, there was considerable difficulty in getting the girls out in the few minutes available, some having fainted or become uncontrollable in their excitement. As the workwomen are usually accommodated, often by hundreds, on top stories, this is a useful lesson in construction of means of escape.

I do not suppose that roof doors will be willingly adopted where valuable stocks are kept, but in a district of warehouses where the roofs were properly adapted for escape there might be a watch kept on the roof against thieves and the outbreak of fire.

The construction and arrangement of public buildings, that is, places of worship, schools, hospitals, workhouses, theatres, halls, exhibition room, and other public places of assembly in London, are in certain respects regulated by the London Building Act, 1894. The general construction must

be to the approval of the district surveyor, subject to a tribunal of appeal, but the Act requires that the floors of lobbies, corridors, passages and landings, and the flights of stairs shall be of fire-resisting material. Besides this the dimensions of passages, staircases, and exits of new churches, chapels, meeting houses, public halls, lecture rooms, exhibition rooms, or places of assembly are laid down in the Act. Staircases must be carried and enclosed by nine-inch walls, and with the corridors and passages shall be not less than four feet six inches wide, but if not more than two hundred persons are accommodated this is reduced to three feet six inches. If for more than four hundred persons an addition of six inches for every additional hundred is to be made up to a maximum of nine feet and when the width is over six feet there is to be a dividing hand-rail. If two staircases or passages are put instead of one, each must be of two-thirds the above dimensions, but not less than three feet six inches. And if one portion of the public is accommodated over another portion they must have a separate exit. All doors and barriers must open outwards, and no outside locks or bolts are to be fixed.

As regards public buildings in general these are new provisions. They are a somewhat mild adaption of the much more stringent regulations that have long been applied to theatres and music-halls, and they were very much required.

I was once asked by a member of a Parliamentary Committee who desired to ridicule our theatre regulations why we did not seek to apply them to churches, and could only suggest the comparatively infrequency of accidents in such places. But the reason was inadequate and Parliament has since recognized this in the above provisions. There are many more accidents in places of worship than is commonly supposed, and the most serious have happened in such places. The crowds are often more dense, and precautions are hardly thought of. One, or perhaps two doors are thought enough for many hundreds of people. The organ and heating apparatus and vestry are in dangerous proximity, artificial light and decoration are on the increase. A senseless panic ensues on the least alarm.

To go back rather a long way, in 1120 the monastic church of Vezelay, in France, was burnt, with 1127 men and women. And other similar fatalities are found in old records. Some seventy years ago, at a festival, when the cathedral of a South American city was crowded with the whole female population, the elaborate decorations which thoughtless people always add on festal occasions, took fire, and 2000 perished, hardly any escaping. A few months ago some decorations in Pisa Cathedral took fire, and in a panic twelve persons were crushed to death and twenty injured. A few weeks ago, fifty-four people were killed and eighty injured at a fire in a church in Russia. A few days ago, the organ and gallery of a chapel in Hull were blazing when the Sunday morning congregation assembled. If this outbreak had been delayed for half an hour we might have had an object lesson in panic. I mention these matters because the architect will feel that he ought not to provide anything less than the moderate securities demanded by the London Building Act; and if one or two additional doors are required, they are at all times a convenience to a crowded congregation. If the precautions above mentioned are required in a new building, I am unable to see why they should not within a reasonable time be demanded in old buildings as well.

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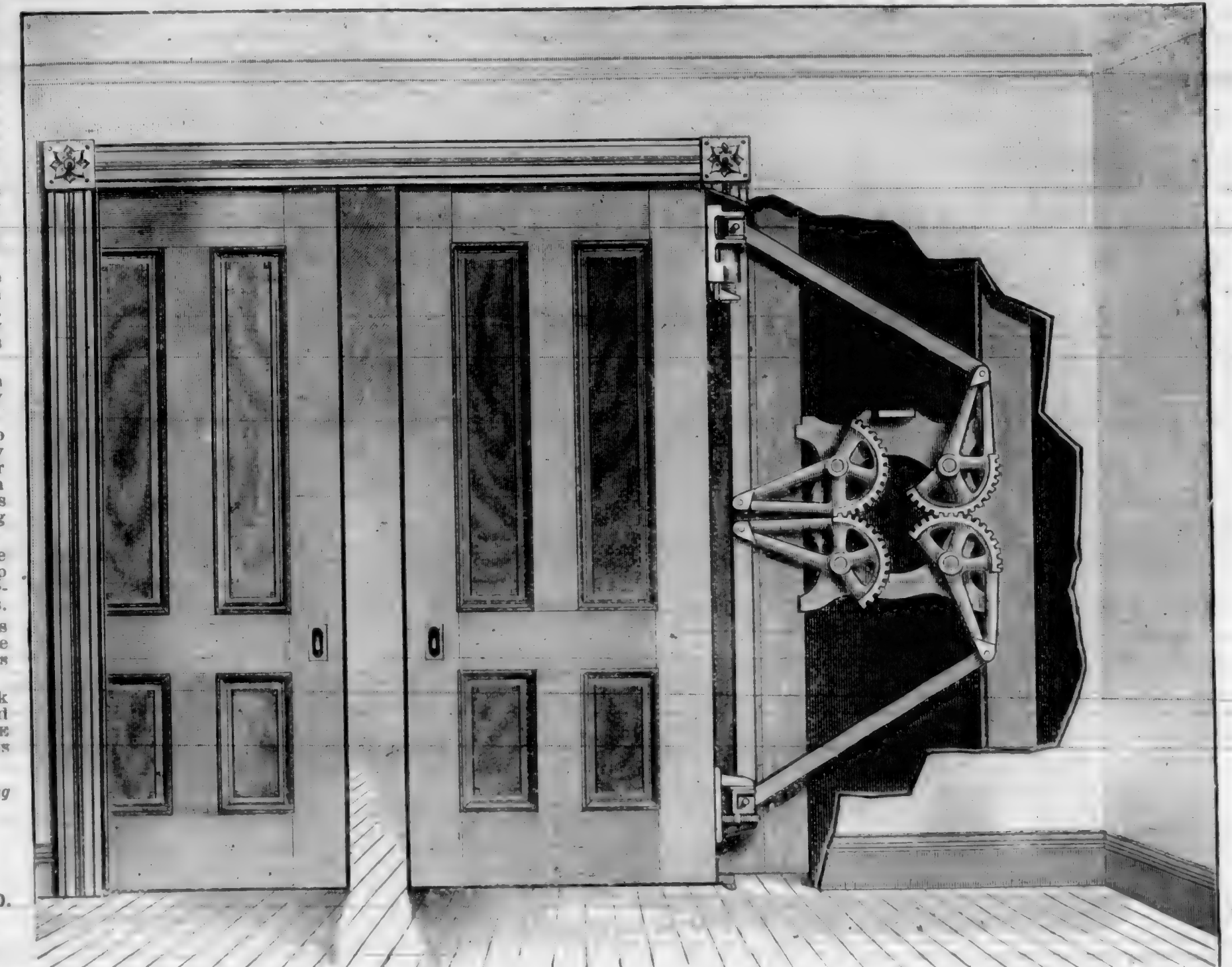
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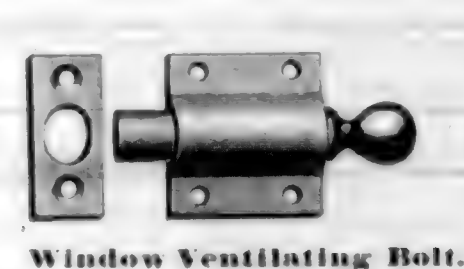
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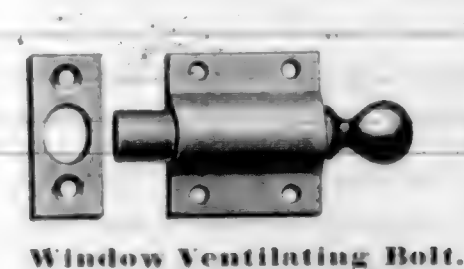
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Forrester Cornice Works; patent sky lights, roof- ing, etc. 164	O'Connor, Thomas, mason and builder. 47
Fortin Brick Co. 98	Ogle, John; contractor and builder. 215
Fraser, J. P.; painter and decorator. 50	O'Sullivan, D.; mason contractor. 274
Fuller, W. P. & Co.; paints, oils and glass. 333	Pacific Bridge Co. 40
Furness, John; contractor and builder. 162	Pacific Refining & Roofing Co. 346
Geler, Frank A.; Market Street Planing Mills. 252	Pacific Lumber Co. 346
Gillette, Secondo; artificial stone. 308	Pacific Manufacturing Co., Mill Work. 385
Gilgoley, Geo.; teaming. 324	Pacific Rolling Mills. 192
Glavin & Eyre; Importers. 324	Pachtz, Gus. J.; electrician, etc. 81
Gladding, McBean & Co.; architectural terra cotta. 162	Palace Hardware Co.; builders' hardware. 232
Golden West Iron Works, Dyer Bros. 64	Paraffine Paint Co.; roofers, building paper. 144
Goodman, Geo.; artificial stone, etc. 331	Patent Brick Co.; brick. 172
Grannis, J. G. & Co.; steam heating, etc. 331	Peacock & Butcher, masons and builders. 122
Gray Bros.; artificial stone and concrete work. 232	Petersen Brick Co.; original red pressed brick. 68
Griese, Carl; artificial stone and concrete work. 232	Petersen, H. M. & Co.; concrete. 240
Hammond, Philip; metal roofers. 43	Pingst, R. L.; hardwood. 76
Hansen, A.; planing mill. 108	Plesse, Henry; mason and builder. 230
Hansen, F. L.; contractor and builder. 108	Pool, Jas. R.; house mover and raiser. 217
Hansen, M. & Co.; planing mill. 314	Rae, James; stone contractor. 156
Harmon Lumber Co.; lumber. 314	Ralston Iron Works. 173
Harris & Jones, Lumber Dealers. 82	Raymond Granite Co.; contractors for stone work. 165
Hausstein, H.; tiles. 294	Reichley Geo.; contractor and builder. 109
Heidt, W.; cornice works. 294	Reigle & Jamieson; machine white washing. 240
Heusel, Ed. F. & Co.; electricians. 375	Remillard Brick Co.; pressed stock and common brick. 278
Herring, R.; mill work. 70	Richardson & Gale; masons and builders. 328
Hille, Wm.; cornice works. 210	Richmiller, Geo.; door opener. 355
Hinder, Ed. B. & Co.; patent blinds. 174	Riley John F.; masons and builders. 329
Hobson, B. Y.; painter. 25	Ringrose, R.; mason and builder. 18
Hock, T. & Son; masons and builders. 292	Rosenbaum, Fr. H.; glass. 96
Hoffman, Y.; mason and builder. 292	Ruffino & Bianchi; marble. 236
Holmes, H. T.; Lime Co.; lime, cement, etc. 288	Sacramento Transportation Co.; patent and stock brick. 332
Hooper, C. A. & Co.; lumber. 341	S. F. Lime & Mortar Co. C. Bennett. 246
Huber, Frank; sash, blinds and doors. 342	San Francisco Lumber Co. 37
Hurburt, R. P.; builder. 158	San Francisco Novelty and Planing Works. 291
Keatinge, Samuel & Bros.; plumbers. 333	San Francisco Planing Mill; Wm. Crocker. 12
Ingerson & Gore; contractors and builders. 337	San Joaquin Brick Co.; brick. 288
Jacks, Henry; contractor and builder. 337	San Jose Brick Co.; brick. 250
Jackson, P. H. & Co.; illuminating tiles. 159	Saunders, J. S. W.; contractor and builder. 250
Jackson, W. E.; curbing. 341	Schroeder, Wm.; art glass. 68
Jordan D. & Son; masons and builders. 57	Scott & Van Arsdale Lumber Co. 33
Joshua Hendy Machine Works. 188	Sections, M. P. 304
Judson Mfg. Co. 127	Smith, J. W.; carpenter. 71
Keatinge, M.; Artificial Stone. 13	Smith & Young; building supplies. 27
Keatinge, R.; Artificial Stone. 13	Smith & Quimby; street contractors. 67
Kelleher, M.; house raiser and mover. 23	Snell, E. L.; lime and plaster. 101
Keele, J. H.; painter and decorator. 190	Snook, W. S. & Son; plumbers. 372
Kern, F. W.; contractor and builder. 225	Soule Bros.; carpenters. 61
Kittredge, E. H. & Co.; sash, doors and blinds. 234	Stelger, A. Sons; architectural terra cotta. 134
Knox & Cook; contractors and builders. 244	Stevens, F. M.; patent chimneys. 15
Kuss, P. N.; painter, decorator and wood finisher. 307	Stockton Brick & Terra Cotta Co. 267
Leak, Geo. R.; contractor and builder. 214	Stratton, Inc. S.; house mover. 362
Larsen, H. H.; mason and builder. 33	Sullivan, J. F.; painter and decorator. 1
Leahy, D.; plasterer. 344	Sullivan, Tim; carpenter. 148
Leonard, J.; Concrete and Stone. 336	Sullivan M. F.; grading and teaming. 288
Leproch, P.; steam and hot water heating. 229	Sweeney, Daniel; carpenter. 325
Logan, J. P.; adjuster and builder. 21	Sweeney, G. C.; plumber. 135
Lovett, A. E.; roof repairing and painting. 342	Tacoma and Home Harbor Lime Co. 284
Lucas & Co.; Golden Gate Plaster Mills, calcined plaster. 31	Tay, Geo. H. Co.; plumbers supplies. 321
Lynch, M. C.; contractor and builder. 274	Tobin, J. R.; plasterer. 173
Macdonald & McKinnon; lumber. 348	Towle & Broadwell. 228
Maguire, A. B.; lime, latas, plaster, cement, etc. 283	Trotter, John; contractor and builder. 251
Mangledorf, M.; Electrical Maintenance Co. 294	Tapper, O. M.; lime. 281
Mangrum & Otter; heating, ventilating, tiles, etc. 294	Tattle, John; teamster, plasterers supplies. 79
Market Street Planing Mill. 108	Union Lumber Co.; lumber. 355
McCarthy, John; mason and builder. 108	Vermont Marble Co. 284
McClure, H. N.; teaming and grading. 168	Vulcan Iron Works. 284
McClroy, A.; contractor and builder. 211	Wagner, Henry F.; painting and decorator. 312
McGillivray Stone Co.; stone contractor. 340	Wagner, J. Ferd; mason and builder. 181
McJowan, M.; mason and builder. 262	Walker, George H.; carpenter. 367
McLachlan, T. M.; contractor and builder. 92	Warren, C. A.; grading. 272
McMahon, Henry; stair builder. 113	Washington & Moen M'fg. Co. 310
McPhee & Co.; stone contractors. 258	Washington Street Planing Mill. 48
Mennie, Alex. plasterer. 208	Waterhouse, C. J. 78
Miller, J. W.; mason and builder. 208	Watson, W. C.; plasterer. 99
Mitchell, R.; mason and builder. 74	Western Granite & Marble Co. 316
Montague & Co., W. W.; tiles, mantles, etc. 237	Western Iron Works. 171
Moore, C. Parker; contractor and builder. 80	White Bros.; carpenters. 257
Moore, G. Howard; contractor and builder. 358	White Bros.; hardwood lumber. 145
Morehouse, C. C.; plasterer. 301	Whittle, H.; mason and builder. 60
Mulcahy, J.; mason and builder. 55	Williams, F. A.; contractor and builder. 178
Niehaus, Edward F. & Co.; hardwood lumber. 205	Wilson, Bros. & Co.; lumber. 158
Niehaus Bros. & Co.; planing mill. 20	Wilson, W. F.; plumber. 288
North, J. J.; Brick manufacturer. 98	Wilson, James A.; mason and builder. 221
Nutting, C.; carpenter and builder. 107	Wilkie, Andrew; planing mill. 343
O'Brien, Jas. J.; carpenter and builder. 107	Worrel, C. R.; mason and builder. 2
O'Brien, P. R. & Son; plumbers. 65	West Coast Wire Works. 273
	Western Expanded Metal & Fire Proofing Co. 349
	Yates & Co.; paints. 349
	Young, S. T.; grading and teaming. 384

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LOS ANGELES

The board of trustees of the Los Angeles branch have made its biennial report to Gov. Budd for incorporation in his next message to the legislature. The board ordered contracts let for the construction of asphalt walks and the laying out of a portion of a portion of the grounds for gardens for the use of the botany class.

Among the improvements recommended is \$30,000 for improvements, consisting of moving the gymnasium building two floors, one for a manual training work room and one for enlarging the training school and \$5000 for improvements in the present training school quarters. For the library, \$10,000 is asked. This will give a building 40x48 feet and will be ample for the students as well as the books.

For necessary repairs and painting \$1500 is asked; and for furniture and apparatus \$5000. The total amount necessary for the support of the school, besides the new buildings mentioned is \$124,5000.

Plans have been prepared for Whiting Thompson, for a two-story 8-room frame residence to be built on Orange street near Union avenue. The work on the building is being done by day's work.

Architect R. B. Young has prepared plans for Jas. B. Lankershim, for a warehouse building, 100x100 feet, two stories and basement, as an addition to the factory of Bishop & Co; at Seventh and Alameda street and will be ready for bids next Monday.

Architects Howard & Train are preparing plans for Mr. Williams, an attorney in the Laughlin building, for a one-story frame residence of seven rooms, to be built on Burlington avenue near Eight street; the inside finish of the principal rooms will be in oak balance in Oregon pine.

PASADENA

Architect R. B. Young has let the contract for the excavating for the new Catholic church to J. H. Dovey; it is expected that bids for the structure will be opened soon.

John M. Smith of Montana has purchased 150 feet frontage on West Colorado street between Terrace drive and Orange Grove avenue. It is the intention of the present owner to improve the property with a handsome residence.

RIVERSIDE

J. W. Babcock will begin at once the erection of a \$1500 house on the ten acres on the corner of Indiana avenue and Jefferson street.

SANTA ANA

Bids for the construction of the internal sewer system have been opened last week. Fourteen firms competed; the lowest being the Williams, Belcher Co., of San Francisco for \$36,814.44.

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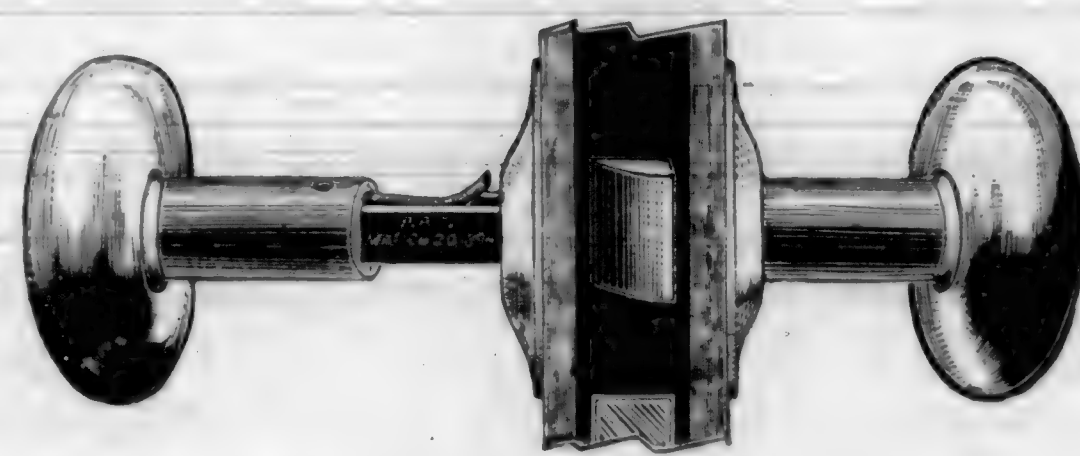
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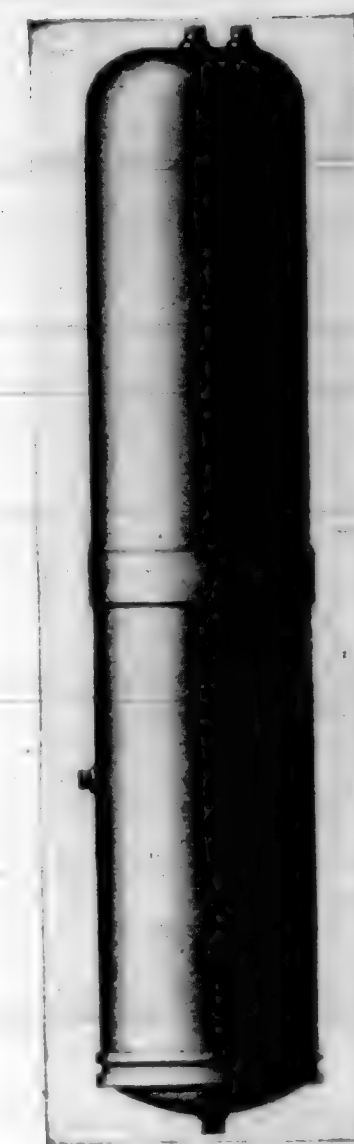
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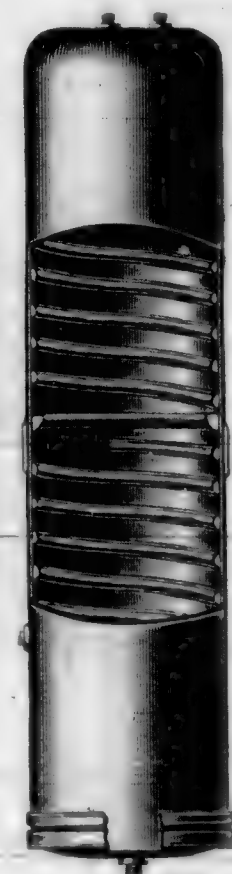
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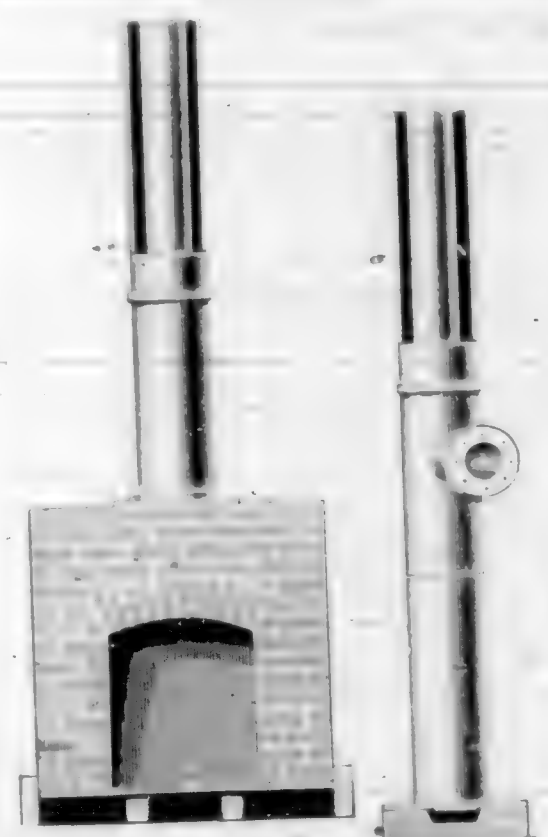
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CONTENTS:

Index to Advertisers.....	VI
Law Licensing Architects.....	134
From Fort Point to the Cliff.....	135
Our Foreign Visitors.....	136
More Residence Space.....	137
The Coming of the New School.....	138
Protection of Iron and Steel Against Fire.....	139
New York Building Laws.....	140
The New Poodle Dog Restaurant Building.....	141
Hydraulic Mortar.....	142
Irreconcilable Architects.....	143
Trade Note.....	144
Some Points on Estimating.....	145
Fire and Fuel.....	146

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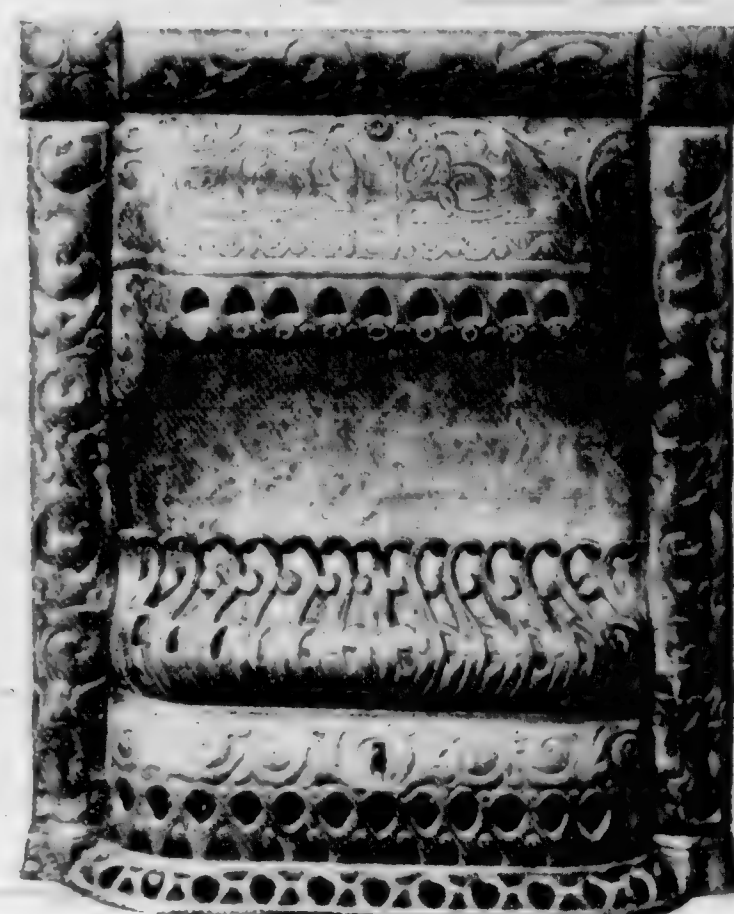
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Our recent announcement that inferior goods had been sold and billed on the Coast as our goods, and that our trademark numbers had been counterfeited, has disclosed an even greater extent of these practices than we had supposed to exist. To make the resulting damage to the reputation of our goods as small as possible and to protect our would-be patrons we repeat:

All our catalogue goods, except those listed by us as manufactured by others are stamped with our name "Keuffel & Esser Co." or our initials "K. & E. Co." and where there is room for it, with our trademark.  Our German drawing instruments bear only the numbers only, and goods so stamped are therefore not ours. All our goods are fully warranted to conform to the description we give of them in our catalogue and to be of the quality and grade specified. We make some lines of cheaper goods for the jobbing trade, but they differ from our catalogue goods in quality and appearance. These inferior goods are not stamped with any of our trademarks. Our catalogue goods are not furnished to any dealer or agent without our complete stamp as described above, and any claim that we furnish our catalogue goods by special arrangement without our stamp is therefore an attempt to deceive. Our special papers in rolls or sheets

Duplex Universal Anvil Sagaw Normal

are watermarked or stamped along the edge with their name. Any claim that our papers are furnished by us in bulk without these names or that these papers have been obtained otherwise than through us, are absolutely false.

We will thankfully accept any information bearing on the counterfeiting of our trademark numbers or the palming off of other goods as ours.

VERY RESPECTFULLY,

KEUFFEL & ESSER CO.,

D. H. GULICK

CHAS. WETHERBEE

A. ZELLERBACH & SONS.

GULICK & WETHERBEE
Plumbing and Gas Fitting

IMPORTERS
AND
DEALERS
IN

PAPER
OF
ALL
KINDS

ESTIMATES GIVEN ON ALL WORK

210 Mason Street

419-421 CLAY STREET,

YOUNG MEN'S CHRISTIAN
ASSOCIATION BUILDING

San Francisco Bet. Sansome and Battery,

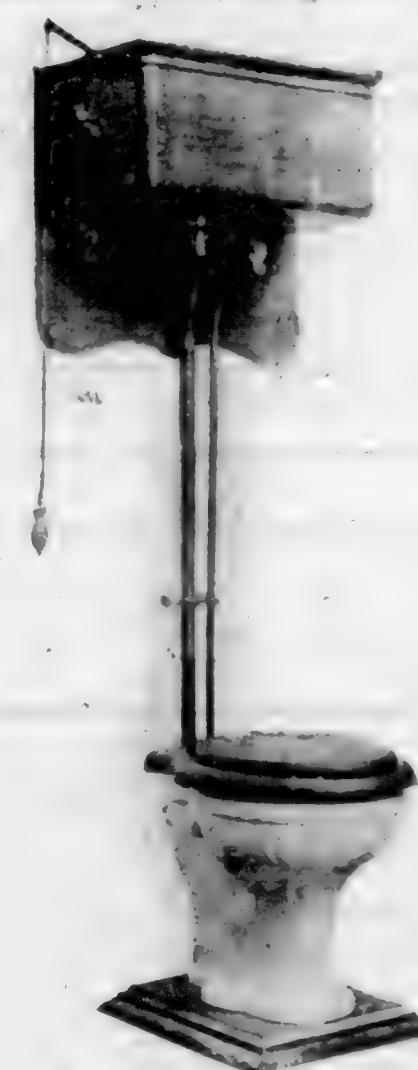
San Francisco.

TELEPHONE BUSH 16

TELEPHONE 1133

THE JOHN DOUGLAS COMPANY

CINCINNATI, PHILADELPHIA, ST. LOUIS, CHICAGO, SAN FRANCISCO.



EXCELSIS
List Price, \$35.00



JUNO
List Price, \$31.75



ELLWOOD
List Price, \$25.50

Three Syphon Jet combinations, with seat attached to bowl; woodwork made of selected cherry quartered oak, and walnut. Polish finish.

For our other combinations, see '98 Catalogue or visit our showroom.

Ask for Catalogue. Correspondence solicited.

EDWARD DOUGLAS, Manager

THE JOHN DOUGLAS COMPANY,
208 ELLIS STREET S F

D. E. GARRISON, Jr., President. S. W. BACKUS, Secretary. C. F. RUNYON, Vice-President.
N. L. BELL, Manager.

WESTERN EXPANDED METAL AND FIRE PROOFING CO.

MAUFACTURERS OF AND CONTRACTORS FOR

Expanded Metal System of Fire Proof Construction.

Fire proof arches, solid partitions and attaching metal lath to ceilings, walls, columns, beams, etc.

LATH ALWAYS IN STOCK.

OFFICE: Rooms 414-15-16 CLAUS SPRECKELS BUILDING.

TELEPHONE Main 5829

FACTORY: Corner Townsend and Clarence Streets, San Francisco.

BUILDING NEWS.

Bartlett near 2nd. Two-story frame; o. Mrs. Amelia P. Hogan; c. W. H. Bartlett; signed, Dec. 15; filed, Dec. 16; cost \$2780.

Broadway near Fillmore. Grading, brick, stone, etc.; o. Mrs. Hannah Liches; a. M. J. Lyon; c. John Furness; signed, Dec. 3; filed, Dec. 8; cost \$6500. Sewers, plumbing, etc.; c. W. F. Wilson; signed, Dec. 3; filed, Dec. 8; cost \$825.

Bush near Fillmore. Carpentry, etc.; o. Elizabeth Walcott; a. Chas. Geddes; c. Samuel E. Thompson; signed, Nov. 15; filed, Nov. 26; cost \$2243.

Bush and Polk. Alterations and additions; o. W. Piper; c. F. V. Acker; cost \$800.

Camino 1 cal (San Jose Ave.). Cottage; o. Henry C. Hagensen; c. L. G. Bergren; signed, Dec. 15; filed, Dec. 17; cost \$1450.

Clay near Laurel. Except painting, etc.; o. Emma D. Buckbee; a. F. S. Van Trees; c. W. H. Bugge; signed, Oct. 4; filed, Oct. 8; cost \$6200.

Clayton near Frederick. To build; o. T. P. and Ellen L. Rordan; a. Chas. J. J. Devlin; c. C. F. Shepley; signed, Nov. 14; filed, Nov. 29; cost \$3425.

De Boom Tract, lots 11 and 15. All work except masonry, etc.; o. Rachel Berg; c. C. Schweizer; signed, Nov. 28; filed, Dec. 5; cost \$1400.

Dolores near 21st. To building; o. Johanna A. Theisen; a. Salfeld & Kohlberg; c. I. W. Coburn; signed, Dec. 1; filed, Dec. 6; cost \$2880.

Ellis near Jones. Carpentry, etc., for five-story brick; o. and c. L. H. Sly; cost \$20,000.

Ellis near Gough. Excavation, o. H. and I. Wolf; a. Philip Schwerdt; c. John Tuttle; signed, Dec. 15; filed, Dec. 17; cost, as per terms given below.

Filbert and Fillmore. All work except plumbing, etc.; o. Frank Mecchi; a. W. H. Lillie; c. Demartini & Traverso; signed, Oct. 30; filed, Dec. 8; cost \$3000.

Haight near Webster. Carpentry, brick work, etc.; o. Patrick Barron; a. R. H. White; signed, Dec. 12; filed, Dec. 13; cost \$6465.

Hayes near Broderick. To build; o. Mrs. Mary R. Gurmendez; c. Philip River; signed and filed, Dec. 3; cost \$3680.

Hermann near Webster. To build; o. Mrs. Lena Beshorman; c. Wilson & Long; signed, Oct. 31; filed, Nov. 28; cost \$2700.

Howard near Stewart. Two-story brick; o. E. A. Howard; signed and filed, Dec. 12; cost \$645.

BUILDING NEWS.

Keamy near Broadway. Concrete retaining wall; o. Cuno & Costa; a. W. J. Cuthbertson; c. Zanetti & Co.; cost \$300.

Laguna and Golden Gate Ave. To build; o. Kate A. Fallon; a. Martens & Coffey; c. John Furness; signed, Nov. 30; filed, Dec. 3; cost \$9200.

Larkin near Sacramento. Three-story frame; o. George W. Harris; a. Shen & Shen; signed, Nov. 21; filed, Nov. 23; cost \$5200.

Laurel Hill Cemetery near Buena Vista Ave. Granite work for a Pyramidal Tomb; o. W. B. Bourn; a. Percy & Hamilton; c. Raymond Granite Co.; signed, Dec. 7; filed, Dec. 9; cost \$11,200.

Main near Howard. Brick work for four-story brick; o. Pelton Water Wheel Co.; a. Walter J. Mathews; c. Miller & Beck; signed, Dec. 7; filed, Dec. 9; cost \$5785.

Main near Howard. Concrete work, etc.; o. Pelton Water Wheel Co.; c. Geo. F. and H. N. Gray; signed and filed, Nov. 22; cost \$1655.

Market and Main. All work for a water tight, concrete floor; o. Augusta K. Gibbs; signed, Nov. 22; filed, Nov. 26; cost \$2740.

As above. Electric freight elevator; c. A. J. McNeill & Co.; signed, Nov. 26; filed, Nov. 28; cost \$2600.

Mission near 3d. Excavations and concrete work; o. Flood & Mackay; a. M. G. Bugbee; c. Cal. Concrete Co.; signed, Nov. 21; filed, Nov. 22; cost \$1060.

Mission near 18th. Alterations and additions; o. Mary J. Bodwell; a. Annie I. Packard; c. C. W. Duffie; signed, Dec. 8; filed, Dec. 9; cost \$1500.

Montgomery near Broadway. To build; o. Harvey Dickerson; c. H. Behrens; cost \$3600.

Morton near Grant Ave. To build; o. Sharon Estate; c. Richardson & Gale; cost \$5000.

Noe and Henry. To build; o. Jeremiah F. Fleming; a. W. Koenig; c. Ira W. Coburn; cost \$3000.

Oak and Lyon. To build two-story and basement; o. D. Einstein; cost \$7000. Oak and Lyon. Two-story frame; o. D. Einstein; cost \$4000. Lyon near Oak; o. D. Einstein; cost \$4500.

Olive Ave. near Van Ness Ave. To build; o. Joseph Henry; a. Copeland & Pierce; filed, Oct. 6; cost \$2250.

Polk near California. To build; o. W. B. Bradbury; c. R. O. Chandler; signed, Nov. 25; filed, Nov. 26; cost \$8052.

Post near Larkin. To build except plumbing, etc.; o. E. Kasson; a. E. J. Vogel; c. D. Currie; signed, Nov. 17; filed, Nov. 25; cost \$2550.

BUILDING NEWS.

Powell and Ellis. Carpentry, mill work, etc.; o. Leonhardt & Haggarty; a. F. S. Van Trees; c. A. J. Forbes & Son; signed, Oct. 4; filed, Oct. 6; cost \$275.

Sacramento near Dupont. Additions and alterations to 3-story brick; o. Lee Chun & Wong Wan; a. Charles Z. Souler; c. M. V. Brady; signed, Dec. 1; filed, Dec. 3; cost \$10,250.

Sacramento and Lyon. Raising, moving, etc.; o. Jacob Schuttler; a. H. Gelfuss; c. Val Franz; signed, Dec. 3; filed, Dec. 3; cost \$2073.

Spruce and Clay. To build; o. F. E. Rich; a. T. Paterson Ross; c. C. M. Depew; signed, Nov. 21; filed, Nov. 28; cost \$2600.

Taylor near Turk. Grading, excavation, etc.; o. M. Heffernan; a. T. J. Welsh; c. Warren & Malley; signed, Dec. 8; filed, Dec. 7; cost \$2703.

Tiffany Ave. and 20th. Three frame cottages; owner and contractor, W. C. Hamerton; cost \$3800.

Valencia and 19th. Double 3-story frame, 6 flats; owner, Peter Crichton; cost \$16,000.

Valencia near 10th. To build; o. H. Fausseg; a. Salfeld & Kohlberg; c. W. Horstmeier & Co.; signed, Dec. 2; filed, Dec. 6; cost \$2950.

Van Ness Ave. near Broadway. To build; o. H. W. Smith; a. Fred Wood; c. Wm. Bell; signed, Oct. 3; filed, Oct. 7; cost \$2500.

Van Ness Ave. and Clay. Galvanize iron, etc.; o. St. Luke's Church; a. A. Sutton; c. Walker Bros; sub-c. Guilford Corncor Works; signed, Sept. 30; filed, Oct. 6; cost \$1830.

Van Ness near Union. To build; o. Robert G. Langrebe; c. Biller & Quaiman; signed, Dec. 3; filed, Dec. 4; cost \$2166.

Waller near Octavia. To build; o. V. Simk; a. Martens & Coffey; c. Garcia & Peralich; signed, Dec. 12; filed, Dec. 13; cost \$3445.

ALAMEDA

Santa Clara Ave. and Grand street. Guild Hall and class room; o. Christ Church; a. M. G. Bugbee; c. Eber & Libbey; signed, Dec. 7; filed, Dec. 9; cost \$2344.

BERKELEY

Daley's Seaside Tract, lot 12, block 19. To build; o. Lydia Atterbury; a. McCrea & Knowles; signed, Nov. 21; filed, Nov. 22; cost \$1950.

Rowe near Parker. To build; o. Harry A. Sully; c. Fred Estey; signed, Nov. 17; filed, Nov. 29; cost \$1542.

Continued on page xii.

The Yale & Towne Mfg. Co.

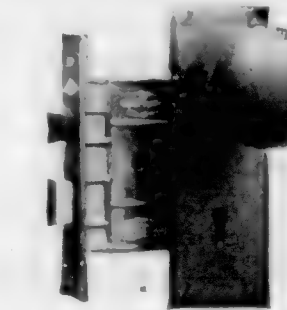
LOCAL OFFICE:

Mills Building, San Francisco.

The "Yale" Locks with new Paracentric Key, afford the highest standard of security. They are made in hundreds of styles and sizes, adapted to almost every possible use.



The Builders' Hardware, made by this Company, and used in connection



with the "Yale," "Vulcan" and "Branford" lines of locks, forms collectively the largest assortment in the trade and covers respectively, as used with these locks, fine, medium and cheap goods.

The Art Metal Work (or Hardware of Ornament) as illustrated and listed



in the No. 16 Catalogue, includes the largest collection of Ornamentations and patterns of this class in the world; not only those usually required but also a vast variety of special pieces. In all Yale Art Metal Work an intelligent interpretation of design may always be found.

As to Prices. While the goods made by this Company are always "the best for the money," the range of products and grades is such as to meet conditions where cost is a FIRST requisite, as well as where the greatest perfection of design and finish is alone considered.

GENERAL OFFICES:

Nos. 9, 11 and 13 Murray Street, New York City.

D. E. GARRISON, Jr., President. S. W. BACKUS, Secretary. C. F. RUNYON, Vice-President.
N. L. BELL, Manager.

WESTERN EXPANDED METAL AND FIRE PROOFING CO.

MAUFACTURERS OF AND CONTRACTORS FOR

Expanded Metal System of Fire Proof Construction.

Fire proof arches, solid partitions and attaching metal lath to ceilings, walls, columns, beams, etc.

LATH ALWAYS IN STOCK.

OFFICE: Rooms 414-15-16 CLAUS SPRECKELS BUILDING.

TELEPHONE Main 5829

FACTORY: Corner Townsend and Clarence Streets, San Francisco.

BUILDING NEWS.

Hartlett near 23d. Two-story frame; o. Mrs. Amelia P. Hogan; c. W. H. Hanchett; signed, Dec. 15; filed, Dec. 16; cost \$2784.

Broadway near Fillmore. Grading, brick, stone, etc.; o. Mrs. Hannah Liches; a. M. J. Lyon; c. John Furness; signed, Dec. 3; filed, Dec. 8; cost \$9500. Saws, plumbing, etc.; c. W. F. Wilson; signed, Dec. 3; filed, Dec. 8; cost \$925.

Bush near Fillmore. Carpentry, etc.; o. Elizabeth Walcott; a. Chas. Giddes; c. Samuel E. Thompson; signed, Nov. 15; filed, Nov. 26; cost \$2243.

Bush and Polk. Alterations and additions; o. W. Piper; c. F. V. Acker; cost \$800.

Camino 1 cal (San Jose Ave.). Cottage; o. Henry C. Hagensen; c. L. G. Bergren; signed, Dec. 13; filed, Dec. 17; cost \$1450.

Clay near Laurel. Except painting, etc.; o. Emma D. Buckbee; a. F. S. Van Trees; c. W. H. Bagge; signed, Oct. 4; filed, Oct. 8; cost \$6200.

Clayton near Frederick. To build; o. T. P. and Ellen L. Rordan; a. Chas. J. I. Devlin; c. C. F. Shepley; signed, Nov. 14; filed, Nov. 26; cost \$3125.

De Boom Tract, lots 14 and 15. All work except mantels, etc.; o. Rachael Berg; c. C. Schweizer; signed, Nov. 28; filed, Dec. 5; cost \$1400.

Dolores near 21st. To building; o. Johanna A. Theisen; a. Salfeld & Kohlberg; c. I. W. Coburn; signed, Dec. 1; filed, Dec. 9; cost \$2639.

Ellis near Jones. Carpentry, etc., for five-story brick; o. and c. L. H. Sly; cost \$20,000.

Ellis near Gough. Excavation, o. H. and I. Wolf; a. Philip Schwerdt; c. John Tuttle; signed, Dec. 13; filed, Dec. 17; cost, as per terms given below.

Filbert and Fillmore. All work except plumbing, etc.; o. Frank Meechi; a. W. H. Lillie; c. Demartini & Traverser; signed, Oct. 30; filed, Dec. 8; cost \$3200.

Haight near Webster. Carpentry, brick work, etc.; o. Patrick Barron; a. R. H. White; signed, Dec. 12; filed, Dec. 13; cost \$9465.

Hayes near Broderick. To build; o. Mrs. Mary R. Gurmendez; c. Philip Rive; signed and filed, Dec. 5; cost \$3680.

Hermann near Webster. To build; o. Mrs. Lena Beshorman; c. Wilson & Long; signed, Oct. 31; filed, Nov. 28; cost \$2700.

Howard near Stewart. Two-story brick; o. E. A. Howard; signed and filed, Dec. 12; cost \$947.

BUILDING NEWS.

Kearny near Broadway. Concrete retaining wall; o. Cunes & Costa; a. W. J. Cuthbertson; c. Zanetti & Co; cost \$400.

Laguna and Golden Gate Ave. To build; o. Kate A. Fallon; a. Martens & Coffey; c. John Furness; signed, Nov. 30; filed, Dec. 5; cost \$9200.

Larkin near Sacramento. Three-story frame; o. George W. Harris; a. Shen & Shen; signed, Nov. 21; filed, Nov. 23; cost \$5200.

Laurel Hill Cemetery near Buena Vista Ave. Granite work for a Pyramidal Tomb; o. W. B. Bourn; a. Percy & Hamilton; c. Raymond Granite Co; signed, Dec. 7; filed, Dec. 9; cost \$11,286.

Main near Howard. Brick work for four-story brick; o. Pelton Water Wheel Co; a. Waller J.

Mathews; c. Miller & Beck; signed, Dec. 7; filed, Dec. 9; cost \$5785.

Main near Howard. Concrete work, etc.; o. Pelton Water Wheel Co; c. Geo. F. and H. N. Gray; signed and filed, Nov. 22; cost \$1655.

Market and Main. All work for a water tight, concrete floor; o. Augusta K. Gillos; signed, Nov. 22; filed, Nov. 26; cost \$749.

As above. Electric freight elevator; c. A. J. McNicoll & Co; signed, Nov. 26; filed, Nov. 28; cost \$2600.

Mission near 3d. Excavations and concrete work; o. Flood & Mackay; a. M. G. Bugbee; c. Cal. Concrete Co; signed, Nov. 21; filed, Nov. 22; cost \$1060.

Mission near 18th. Alterations and additions; o. Mary J. Bodwell, Annie I. Packard; c. C. W. Ruffie; signed, Dec. 8; filed, Dec. 9; cost \$1500.

Montgomery near Broadway. To build; o. Harvey Dickerson; c. H. Behrens; cost \$3600.

Morton near Grant Ave. To build; o. Sharon Estate; c. Richardson & Gale; cost \$3000.

Noe and Henry. To build; o. Jeremiah F. Fleming; a. W. Koenig; c. Ira W. Coburn; cost \$3600.

Oak and Lyon. To build two-story and basement; o. D. Einstein; cost \$7000. Oak and Lyon. Two-story frame; o. D. Einstein; cost \$4000. Lyon near Oak; o. D. Einstein; cost \$4500.

Olive Ave. near Van Ness Ave. To build; o. Joseph Henry; a. Copeland & Pierce; filed, Oct. 6; cost \$2250.

Polk near California. To build; o. W. B. Bradbury; c. R. O. Chandler; signed, Nov. 25; filed, Nov. 28; cost \$9052.

Post near Larkin. To build except plumbing, etc.; o. E. Kasson; a. E. J. Vogel; c. D. Currie; signed, Nov. 17; filed, Nov. 25; cost \$2550.

BUILDING NEWS.

Powell and Ellis. Carpentry, mill work, etc.; o. Leonburde & Haggerty; a. F. S. Van Trees; c. A. J. Forbes & Son; signed, Oct. 4; filed, Oct. 6; cost \$275

Sacramento near Dupont. Additions and alterations to 3-story brick; o. Lee Chun & Wong Wan; a. Charles Z. Soule; c. M. V. Brady; signed, Dec. 1; filed, Dec. 3; cost \$10,250.

Sacramento and Lyon. Raising, moving, etc.; o. Jacob Schiltgen; a. H. Gellfuss; c. Val Franz; signed, Dec. 3; filed, Dec. 3; cost \$2675.

Spruce and Clay. To build; o. F. E. Rich; a. T. Puterman Ross; c. C. M. Depew; signed, Nov. 21; filed, Nov. 28; cost \$2900.

Taylor near Turk. Grading, excavation, etc.; o. M. Heffernan; a. T. J. Welsh; c. Warren & Malley; signed, Dec. 6; filed, Dec. 7; cost \$2703.

Tiffany Ave. and 29th. Three frame cottages; owner and contractor, W. C. Hamerton; cost \$3800.

Valencia and 19th. Double 3-story frame, 6 flats; owner, Peter Crichton; cost \$16,000.

Valencia near 16th. To build; o. R. Faussig; a. Salfeld & Kohlberg; c. W. Horstmeier & Co; signed, Dec. 2; filed, Dec. 6; cost \$2520.

Van Ness Ave. near Broadway. To build; o. H. W. Smith; a. red Wood; c. Wm. Bell; signed, Oct. 3; filed, Oct. 7; cost \$2700.

Van Ness Ave. and Clay. Galvanize iron, etc.; o. St. Luke's Church; a. Sutton; c. Walker Bros; sub. a. Guilfoyle Corrice Works; signed, Sept. 30; filed, Oct. 6; cost \$1839.

Van Ness near Union. To build; o. Robert G. Langrebe; c. Miller & Qualman; signed, Dec. 3; filed, Dec. 4; cost \$2166.

Waller near Octavia. To build; o. V. Simi; a. Martens & Coffey; c. Caccia & Fearich; signed, Dec. 12; filed, Dec. 13; cost \$3445.

ALAMEDA

Santa Clara Ave. and Grand Street. Guild Hall and class room; o. Christ Church; a. M. G. Boubee; c. Eber & Libbey; signed, Dec. 7; filed, Dec. 9; cost \$2344.

BERKELEY

Daley's Scenic Tract, lot 12, block 19. To build; o. Lydia Atterbury; a. McCrea & Knowles; signed, Nov. 21; filed, Nov. 22; cost \$1950.

Do ve near Parker. To build; o. Harry A. Sully; c. Fred Estey; signed, Nov. 17; filed, Nov. 25; cost \$1542.

Continued on page xii.

The Yale & Towne Mfg. Co.

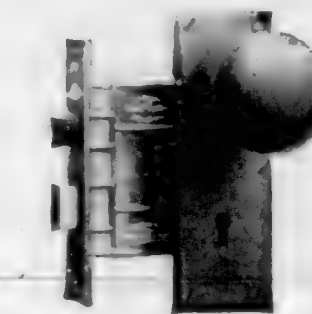
LOCAL OFFICE:

Mills Building, San Francisco.

The "Yale" Locks with new Paracentric Key, afford the highest standard of security. They are made in hundreds of styles and sizes, adapted to almost every possible use.

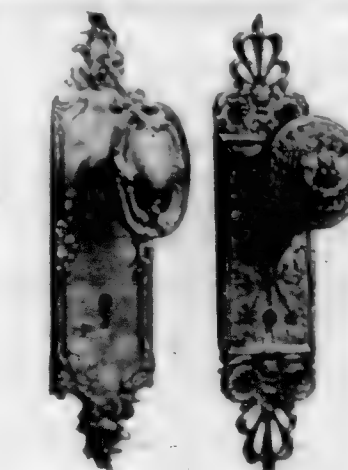


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GENERAL OFFICES:

Nos. 9, 11 and 13 Murray Street, New York City.

GENERAL INDEX OF ADVERTISEMENTS.

CLASSIFIED INDEX.

Architects.
Architects' Supplies.
 Keuffel & Esser.....
Artificial Stone.
 Goodman, Geo.....
Boilers.
 Randolph & Clowes.....
Building Supplies.
 Smith & Young.....
 C. J. Waterhouse.....
Building and Loan Assn.
 Gansburger, Emil.....
Brick Preservative.
 Cabot's.....
Cement.
 W. R. Grace & Co.....
Chimneys Patent.
 Chas. W. Smith.....
Door Opener.
 G. R. Schmitt.....
Engineers.
 Tilton, Chas. S.....
Filters.
 Rapid Safety Filter Co.....
Furniture and Upholstery.
 Bateman, W.....
Hardware.
 Yale & Towne Lock Co.....
Heating and Ventilating.
 W. Morgan & Co.....

CLASSIFIED INDEX.

Iron Hangers.
 Van Dorn, Chas. J. Waterhouse, Agent.....
Iron Works.
 Western Iron Works.....
Iron Cornices.
 Cronin, Wm.....
 Wm. Heidt.....
Incandescent Lamps.
 General Electric Co.....
Lumber.
 Scott and Van Arsdale.....
 Sierra Lumber Co.....
Mantles Tiles, Etc.
 Montague & Co., W. W.....
Metal Lath.
 Western Expanded Metal Lath and Fire
 Proofing Co.....
Mortar Color.
 Cabot's Mortar Color.....
Paint.
 L. R. Butcher and Co.....
 E. O. S. J.....
 Joseph Dixon Crucible Co.....
 Paraffine Paint Co.....
 Fuller & Co., W. P. & Co.....
Paper.
 Zellerbach & Sons.....
 P. and B. Building Paper.....
 Cabot's Sheathing and Deadening Quilt.....
Plaster.
 Lucas & Co.....
Plumbers and Gasfitters.
 Hobbs, W. D.....
 Gulick & Wetherbee.....

CLASSIFIED INDEX.

Sash Locks.
 Ives, H. B. & Co.....
Sewer Pipes.
 Gladding, McBean & Co.....
Sewer Traps.
 Dallimore, G. C.....
Sash Lines.
 Samson Cordage Works.....
Shingle Stains.
 (Cabots)—C. J. Waterhouse—Agent.....
 Pacific Refining and Roofing Co.....
Sidewalk Lights.
 P. H. Jackson & Co.....
Sliding Door Hanger.
 Dunham, Carrigan & Hayden.....
 Stowell.....
Terra Cotta.
 Gladding, McBean & Co.....
Tin Roofing.
 N. & G. Taylor Co.....
University.
 Harvard.....
Ventilators.
 N. & G. Taylor Co.....
Water Closets.
 John Douglas Company.....
Window Cord.
 Samson Cordage Works.....
Windows—Revolving.
 J. E. and L. L. Kennedy.....
Wood Preservative.
 Cabot's.....
 Pacific Refining and Roofing Co.....

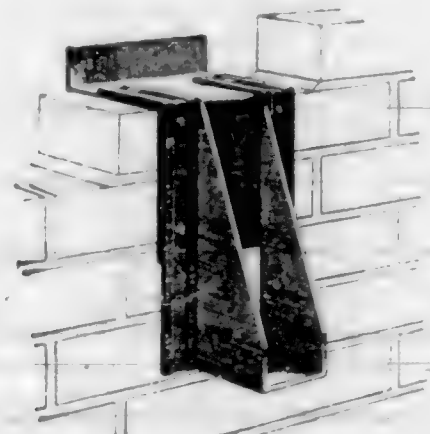


No. 1—Steel joist hanger
for wooden header.

VAN DORN'S
Steel Joist Hanger
CHAS. J. WATERHOUSE, Agent

421 MARKET STREET, S. F.

PHONE BLACK 1807.



No. 4—Steel joist hanger
for brick walls.

Sierra Lumber Company

Manufacturers of and Dealers in

Doors, Windows, Blinds, Sugar Pine.

Yellow Pine, Spruce and Fir Lumber.

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Lawrence Scientific School

OFFERS COURSES IN

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N. S. SHALER, Dem. Cambridge, Mass.

DIXON'S SILICA GRAPHITE PAINT

FOR TIN OR SHINGLE ROOFS AND IRON WORK. Tin roofs well painted have not required repainting for 10 to 15 years.
 IT IS ABSOLUTELY WITHOUT AN EQUAL.

If you need any paint it will pay you to send for circular.

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

EAGLE SHEET METAL WORKS

WM. CRONAN

Manufacturer of Plain and Ornamental

Copper and Galvanized Iron Cornices

Tin, Iron, Slate Roofing, Galvanized Iron Sky-lights

and Cast-Zinc Work.

Steam, Hot Water and Warm Air Heating.

Power Fans for Heating and Ventilating Work.

ROOFS REPAIRED AND PAINTED GENERAL JOBBING ATTENDED TO
 Nos. 1213 1215 Market Street, Near Eighth
 SAN FRANCISCO, CAL.

A SYSTEM OF
WARMING AND
VENTILATING



A SYSTEM OF
VENTILATED FLUSHING
WATER CLOSET
AND URINAL RANGES

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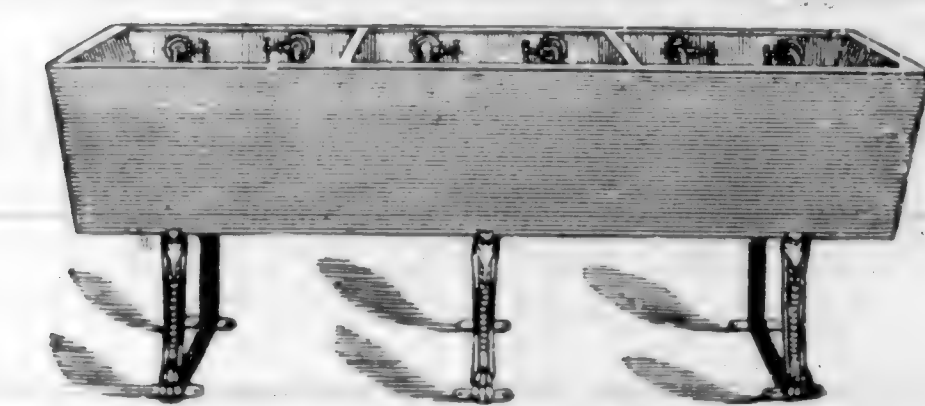
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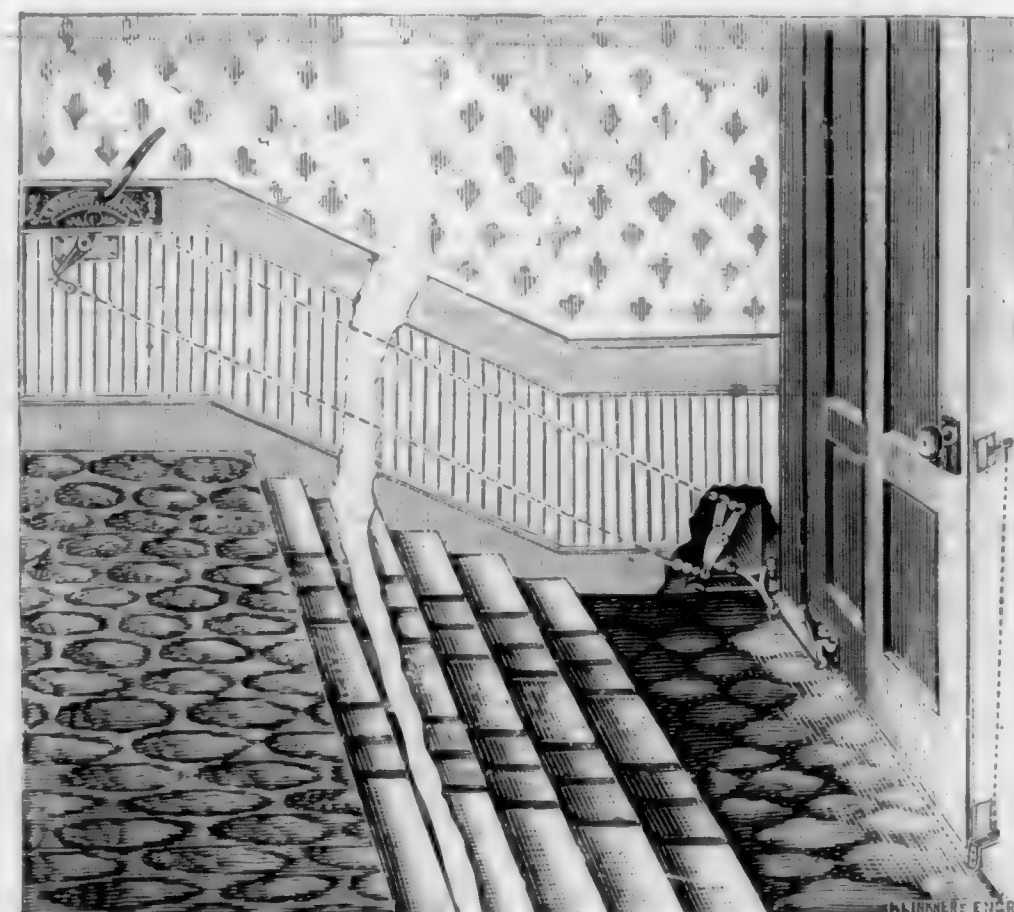
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