



Barrett's

Manufacturers of
**Gas, Electric and
Combination
Fixtures**

The Largest Stock in the Northwest
**Conduit Electrical Installations
in Large Buildings a Specialty**

Show Rooms, 408, 410, 412 Morrison St.
Factory, 166 Eleventh St.
Telephones M 122 and A 4154

FOX FURNACE

Matchless Steel Plate Furnace

Simple in construction. Guaranteed perfectly smoke, dust and gas proof. Extra large fire pot, ash pit and grate surface. The tile-lined fire pot insures great durability and economy in repairs. More direct and indirect radiating surface than contained in furnaces of any other style of construction. All surfaces are curved, which prevents the buckling of the steel, or the fire cracking of the castings. The heating surfaces throughout are perpendicular and unbroken, presenting no obstruction to the free circulation of the heated air. Both the body and the radiator are constructed of extra heavy steel plate, closely riveted and caulked and warranted not to crack. Extra large castings provide ample free air space, preventing the overheating of the furnace and insuring a volume of perfectly warmed air. The feed door and ash pit doors are of good proportions and closely fitted. All furnaces are equipped with draft regulator, chain and pulleys for regulating the fire from the hall or living room, and are easily managed by the average person. Such were the points briefly stated for consideration by J. J. Kaddery, when seen in his salesrooms this morning at 180 First street, next to the O. W. F. waiting rooms.

A PICTURE OF SATISFACTION

Is the man whose hardware buying is accomplished here. The variety, quality and price that prevails affords greatest returns for least expenditure—and we invite your inspection to prove it.

AVERY & CO. 40 Third Street, Bet. Pine and Ash

THE ADAMANT CO.'S

HARD WALL PLASTER is the best "GROW BRAND" (hair-fibred).
WOOD FIBRE PLASTER
FINISHING PLASTER (unfibred).

Office, Worcester Building, Phone Main 712.
Factory, Foot of 14th St. Phone Main 5100.

THE J. McCRAKEN COMPANY

Roche Harbor Lime, Aisen's Portland Cement, Nephel Building, Casting and Dental Plaster, Imported Fire Brick, Imported and Domestic Fire Clay, Fibred Hardwall Plaster, Plastering Hair and Fiber, All United Steel Studing, Herringbone Expanded Steel Lath, Boston Sheet Metal Lath.

311-315 W. 3RD STREET. Phone Main 870. PORTLAND, OREGON.

ASBESTOS Portland Asbestos Mfg. Co.

(Inc.)
Office and Salesroom, 272 Gilson Street
Phone Main 4711.

SEND FOR SAMPLE.

CITY IRON WORKS

BLACKSMITHS, MACHINISTS, BOILERMAKERS
Tanks, Sawdust, Conveyers, Hydraulic Pipe, Gratings, Iron Doors, Fire Escapes, General Repairing.

WORKS, 303 FRONT ST. PORTLAND, OREGON.

PHOENIX IRON WORKS ENGINEERS

Office and Works, New George Avenue and East Third Street. Phone East 15. PORTLAND, OREGON.

CEMENT

A cargo of J. B. White & Bros. English Cement just arrived. Used on the Chamber of Commerce and other well-known buildings in Portland.

100 Madison St. G. B. BATE & CO. Portland, Oregon.

SAVING MARKET IS GOOD

Reduced Quotations by One Company Have No Effect on Others.

LOCAL BUILDING CAUSES BIG DEMAND

Things Are Looking Up in the California Field—Rumor Has It Mills at Gray's Harbor Have Commenced to Run Night and Day.

Despite the fact the Inman-Poulsen Lumber company reduced quotations on lumber to the extent of \$2 per 1,000 feet a few days ago, mill men in general declare the local market healthy and things looking up in the California field. The eastern market, they say, is good, and inquiries from foreign countries, especially the orient, are up to the standard. None of the other manufacturers in the city have followed the move of the large concern in southeast Portland, alleging that conditions do not call for a reduction at this time.

A great deal of building is in progress here and the mills catering particularly to the local trade are busy filling orders. The Inman-Poulsen Lumber company is disposing of every bit of its output at the inviting figures recently announced and is not suffering from a large over-supply although it practically has no competition in California when the market went to pieces in the early part of summer. It is argued, in fact, that the crash in the California market has induced the mills at Gray's Harbor to slash their bill and give their fellow-citizens a slice of the profits of the lumber manufacturing business, which profits are said to have been and still are quite comfortable.

Since the mill workers strike early in the spring only a few mills have resumed operating double shifts and this, of course, has cut down the total output very materially, but to even up things large quantities of the lumber exported and shipped to California has been drawn from the mills along the lower Columbia river.

A rumor was received in lumber circles here this morning to the effect that the mills on Gray's harbor have commenced to run night and day which is taken to mean that the California market shows a decided improvement. The Gray's harbor mills depend solely upon the water transportation facilities for disposing of their output and it is not considered likely that they would be operating day and night unless they have seen a pretty brilliant ray of hope emerging through the oppressive cloud that has been hanging over the San Francisco market. An early improvement in the California market will have a tendency to strengthen the local market and increase the quantity of lumber which are now said to be somewhat chaotic will then become firmer.

ASBESTOS INDUSTRY GROWING ONE HERE

Used Principally in Portland for Covering Steam Pipes. Process Is Secret One.

An industry that has assumed large proportions as a direct result of the building operations of the last few months is the manufacture of asbestos conducted by the Portland Asbestos company and the Gillen-Chambers company. The business of the latter having so developed that a large factory is being built in St. Johns to handle their increased business. The Portland Asbestos company is also completing a new factory in Albina.

Asbestos in Portland is used principally to cover steam heating pipes. There are other uses to which it can be put. It is prepared by a secret process and asbestos is only one of the minerals that goes into the product for commercial use.

Magnesia is an important ingredient. This is a mineral that comes from California. The magnesia used in Portland is shipped from Lompoc, California. Asbestos is mined in the eastern states and the raw material is taken from the earth in immense blocks and slabs like stone. It is then ground up and appears in the commercial asbestos as a fine, long, hair-like fiber. In the completed product the better the quality of the asbestos.

RUEF INCLUDED IN IMMUNITY CONTRACT

San Francisco, Aug. 17.—Despite the objections of Hensy, Phillips was forced by Delmag to sign the immunity contract under which the witness was testifying yesterday afternoon while on the witness stand in the Glass trial. Hensy never ensued between Hensy and Delmag, but the attorney for the defense won his point.

UNITED STATES TIMBER SUPPLY

It Is Given as a Total Annual Value of Over \$1,075,000,000.

Bulletin #7 of the forest service gives the following as Uncle Sam's annual output of forest products:

Quantity	Value
Lumber, board feet	\$5,000,000,000
Shingles, lath	100,000,000
Hewed cross-ties	70,000,000
Turpentine and rosin	25,000,000
Pulpwood, c. d. (unsaw'd)	5,000,000
Timber export—posts, etc.	10,000,000
Total annual value	\$1,075,000,000

The total quantity of wood cut to obtain these products was not less than 20,000,000,000 cubic feet. Lumber consumption in the United States has increased more rapidly than population. From 1880 to 1900 the population increase was 52 per cent and the United States is now using annually 400 board feet of lumber per capita, while the average for Europe is but 80 feet per capita.

Since 1880—28 years—Uncle Sam's lumber cut has aggregated 705,712,000,000 board feet, an astonishing quantity and sufficient to make a floor 1 inch thick entirely over the states of Vermont, Massachusetts, Connecticut, Rhode Island and Delaware, an area of 25,000 square miles.

The four principal producing states were:

State	Board feet, total cut	Per cent of total
Michigan	\$2,426,000,000	18.2
Wisconsin	75,470,000,000	10.6
Pennsylvania	53,589,000,000	7.6
Minnesota	38,174,000,000	5.4
Total, 4 states	\$28,659,000,000	26.2

Says the Bulletin: "The northeastern states reached their relative maximum in 1870 and the lake states in 1890. The southern states are, undoubtedly, near their maximum today, with about 35 per cent of the total product, and the time is rapidly approaching. Since the census of 1900 the lumber product of the Pacific states has risen from less than 10 per cent of the lumber output of the country to 20 per cent. There will be no more shifting after the Pacific states take first place since there is no new region (except the Philippines) of virgin timber to turn to."

AGED VETERANS TO VISIT OLD COMMANDER

(Journal Special Service.) Philadelphia, Pa., Aug. 17.—It was a happy lot of aged veterans that boarded a special train at the Broad-street station today and departed for the west. The veterans, some 200 in number, are the survivors of the Fifteenth Cavalry of Pennsylvania. They are bound for Colorado Springs to attend a reunion as guests of General William J. Palmer, who was the commanding officer of the Fifteenth Cavalry. General Palmer, who is a former president of the Denver Rio Grande railroad and a man of wealth, has invited his comrades to spend a week at his house, Glen Eyrie, at Colorado Springs, and has reserved for himself the privilege of paying all the expenses of the veterans from the time they leave their homes until their return.

BUILDING TAKES GREAT STRIDES

Portland in Front Ranks of Cities Showing Greatest Growth for Months.

MILLIONS SPENT IN CONSTRUCTION WORK

Sky Line of the City of Roses Is Rapidly Becoming as Metropolitan as Sister Eastern Cities of Much Older Standing.

Unprecedented, hardly expresses the wonderful building activity that has placed Portland in the front ranks of cities showing the greatest percentage of growth during the past 12 months. On every side, rising, jagged, structures representing all that is best in architecture and construction, are being erected at a cost of many millions and the end is not yet in sight.

Portland's skyline is rapidly becoming most metropolitan. If such a term can be aptly employed, and local residents need no longer gaze in open-eyed wonder at photographic reproductions of Gotham's skyscrapers. Absolute lack of labor difficulties and the competency displayed by the contracting firms have been two of the most potent factors in rapid construction in this city. The letting of contracts for \$75,000 buildings is now a matter of daily occurrence and indications of the prophecy that the Rose City is destined to become the New York of the Pacific.

The Wells-Fargo building, at the corner of Sixth and Oak, will cost nearly \$800,000. The Wells-Fargo and O. R. & N. officials will occupy quarters by September 1, and the others will move in a month later. A. W. Morris is the architect.

The Corbett building, on the southeast corner of Morrison and Fifth streets, will cost \$550,000 when completed. It will be ready for occupancy by January 1, 1908, and is owned by the H. V. Corbett estate. Whidden & Lewis are the architects.

The J. R. Bowles & Co. are the contractors for the Rothchild building, on the northwest corner of Fourth and Washington streets. A. J. Pike, superintendent of the building, says that the store-rooms on the first floor will be occupied about September 1, but the office rooms will not be completed before November 1. The building is constructed of steel and reinforced concrete.

The Neustadter building, Fifth and Ankeny streets, will, when finished, cost \$90,000. It will be seven stories brick. The J. G. Mack Carpet company will occupy the building now used by Neustadter Bros.

HOME EQUIPMENT IS CAREFULLY STUDIED

Many Portland Concerns Make a Specialty in This Line of Work.

For up-to-date appointments to equip the most elaborate home Portland is well provided. The firms that make a specialty of this work in this city have gone to considerable expense to provide the best and knowledge of what they can do and furnish for the home. A great deal comes from the home, not only merely sell fixtures but makes a study of every room in the residence which it furnishes in the endeavor to blend walls and furniture in one harmonizing effect.

Tints in furniture are adjusted with tiling and fireplaces. High priced men will suggest how best to blend shades either with sun light or artificial light, and will offer every detail to the minutest fixture in the parlor or kitchen. In order to do this companies must be well prepared and they have taken an important part in the evolution of the new Portland.

One company of this kind has five departments devoted to fixtures exclusively. A great deal comes from the home, not only merely sell fixtures but makes a study of every room in the residence which it furnishes in the endeavor to blend walls and furniture in one harmonizing effect.

Show cases constitute one of the specialties. They are made of wood and glass, and are kept in stock. The materials for these are prepared on the boat, although there are some factories that use in operation and economical in cost.

ELECTRIC POWER IN CONSTRUCTION

Owing to their simplicity, reliability and ease of operation, electric hoists for use in building operations have grown steadily in favor for some years. The increasing use of electric power for building construction is significant of the multitudinous ways in which electricity may be adapted to the purposes of industrial activity. Electric power is clean, quick, always ready, and applicable to any kind of apparatus used in building construction. The electric pump sends water to any height, and at insignificant cost is always ready to work. The great economy and convenience of running a cement mixer by electric has been successfully demonstrated. Electric hoists assist horses when heavily burdened on steep grades, and are economically used for lifting building material or anything else. The electric rock drill is rapid and reliable in operation and economical in cost.

Exclusive Novelties.

Scottish and English woollens. Holbrook and Levean, Couch bldg., Fourth and Washington streets.

PORTLAND MARCH IS CONTINUING

Portland Building Operations Press Steadily Forward.

REALTY DEALERS ARE INVITING THE PROBE

Records Show That Development Is Outstripping All Competition, Pointing to Continued Growth and Prosperity—Home Materials Used.

Within the past 18 months building operations in this city have been little short of phenomenal. There is small realization among those only generally interested, of the extent of the growth in Portland during this period, without taking into consideration the immense amount of material and sources from which the material is obtained that goes into the tall business structure and the beautiful home. For not only has development been enormous within the retail district, but those familiar with the suburbs will tell of a wonderful growth there in both small homes and magnificent residences.

Realty dealers and others interested in the industrial progress of the city invite comparison. The impartial investigation reveals the truth. Fire Marshal Roberts the other day made public the semi-annual report of the fire underwriters' inspection bureau. When the inspection was made Portland had 81 buildings under construction against 71 in Seattle, 28 in Spokane and in Tacoma. In Portland during the half year 522 buildings were inspected, against 522 in Seattle. Electrical changes during the half year showed 1,000 in Tacoma, 301 in Seattle, 83 and Spokane, 70. In the past year Portland installed six crude petroleum plants, Seattle five, Tacoma one, Spokane one and Tacoma one. The advance is sure and conservative. It is not the blustering, boasting and "eternal push" kind of progress, but natural advantages that will eventually build a city where Portland stands. Material is handy and easy to obtain. Portland as a seaport town has a fact that materials are cheaper. The great item in modern construction is Portland cement and the only reliable Portland cement is a European commodity.

Best Cement Is Sought.

Portland cement so named because it was perhaps first manufactured in Portland, England, is now used every day and more of its wonderful properties are being discovered each year by students who give their time to it. With magazines and trade papers are published all over the world devoting their whole space to the possibilities of Portland cement in interior cities. It is not to this city in tramp steamers from Europe at a cost much below what it can be delivered to interior cities. This is the reason why reinforced concrete structures are more numerous on the coast than in the larger cities inland.

Portland cement is manufactured in California and in Kansas but the American product is not of that grade that is trusted in tall buildings. The best Portland cement is mined in Belgium. This is designated as natural cement. This cement is not reliable and is only used when important structures are to be built. In this city the American manufacture is little used except when the imported material is not available. Other materials such as fire brick and fire clay are also European. Fire brick and fire clay comes from Newcastle and Scotland. Portland cement is used on the continent because other materials such as pig iron can be used to make up a cargo and these things are not available in every respect in this city. Very few times could dealers see their way clear to handle a ship load of fire brick, and export cargoes do not come to this port often.

The lime that is used in Portland is mined on the islands in the Puget sound. The quality depends upon the way in which it is prepared. It is heated in large kilns and when the manufacturer is well up in the quality of the lime, it is well experienced the grade is better. Very little lime is imported.

Brick From Newberg. The handsome pressed brick used in finishing the exterior of many of the buildings in Portland comes from Newberg, 28 miles from Portland, in Yamhill county, and is a high grade article in every respect. The Portland brick pressed brick has been large. Common brick of local manufacture is only a product. The European pressed brick is better but most builders are satisfied with the American article. Local manufacturers of brick pay too much attention to an accessible location, it is allowed, and neglect the quality of the clay.

The J. McCracken company and George E. Rate & Co. are extensive dealers in these materials. Those companies import the foundation material and distribute it to contractors. It is an extensive business, the cement and concrete department alone demanding the attention of considerable ability. In government work specifications regarding this material are submitted to be closely followed and only the best is used and that carefully handled. The government will not permit the use of natural cement, for instance, and specifies exactly the per cent of water in preparing concrete for the same. The choice and preparation of materials in the construction of a modern skyscraper is a problem regarding which every engineer has his ideas.

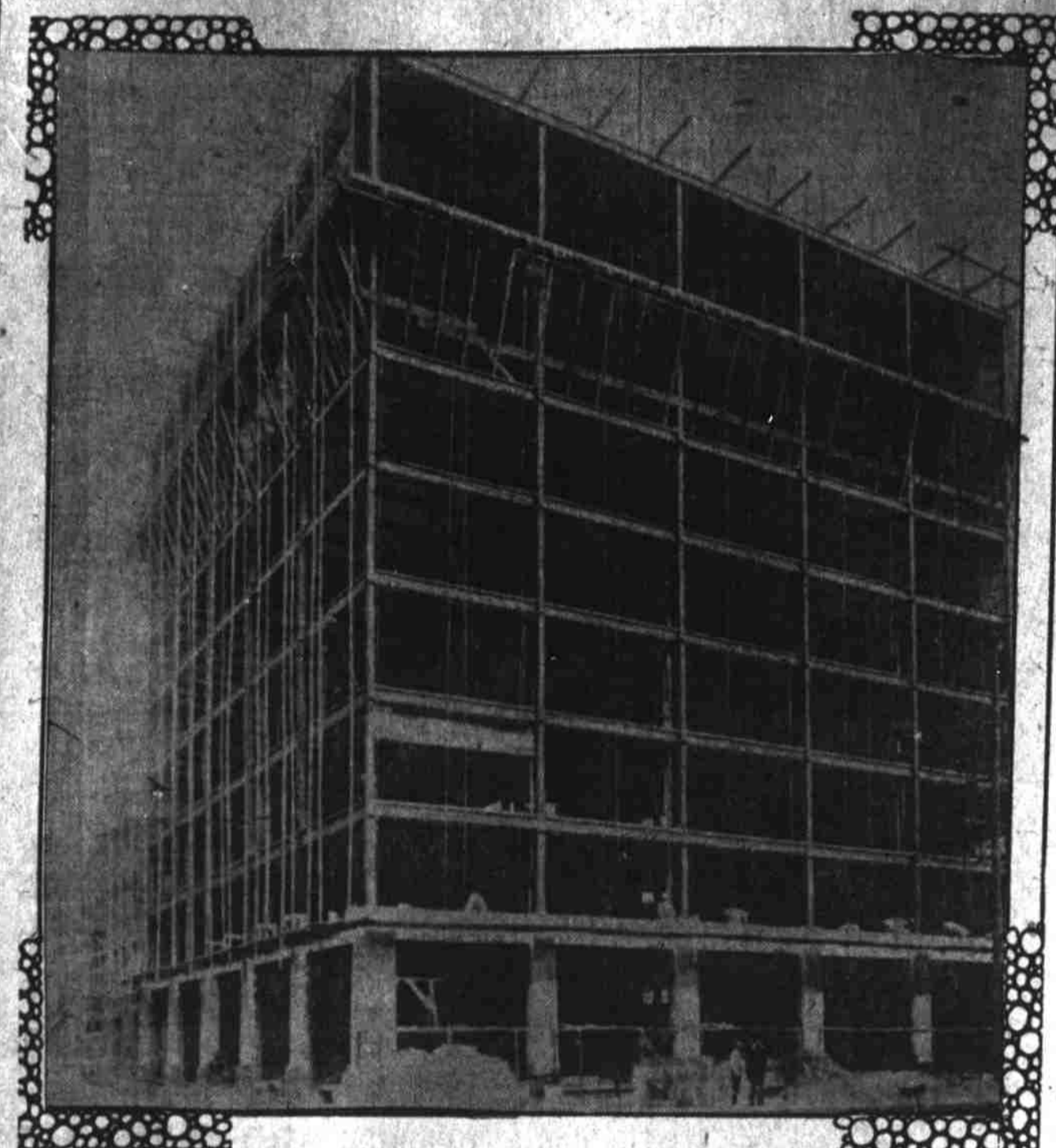
PORTLAND LEADS ALL OTHER CITIES

The Portland Railway, Light and Power company's Bulletin says: "Portland leads all cities in the United States north of San Francisco and west of Minneapolis in school population, postal receipts, wholesale trade, exportation of wheat and flour, distribution of agricultural implements, and assessed valuation. Increase in building permits places Portland among most rapidly growing cities of the world. Leads the world in lumber production. Lowest death rate of any city in civilization. Commands the superlative in every variety of American scenery. The city's opportunity for industrial enterprises, because of the cheap electric power abundantly available from the mains of the Portland Railway, Light and Power company. The immense increase in the use of electric power in Portland and its suburbs can be traced directly to the economic and other advantages afforded manufacturers by this company."

THE LUTKE MFG. CO.

Manufacturers of
SHOW CASES
Bank and Store Fixtures

PORTLAND, OREGON.



COMPLETED STEEL FRAME OF COMMERCIAL CLUB BUILDING, FIFTH AND OAK STS.