

FACTS ABOUT MARBLE.

How the rugged Rock is Converted Into Polished Variegated Slabs. Few people who stand before a finished monument or mantel, or even a soda-water fountain in a drug store, and admire the highly-polished variegated marble, says the New York Commercial Advertiser, realize the amount of time and labor that has been expended in the evolution of the completed structure from the raw materials.

The colored marbles retain their freshness longer and can be repolished after many years' use. The marble is extracted from the quarry in oblong blocks cut out by means of wedges.

Except when designated for statuary or building purposes, the rough slabs are milled and ground to place the block of marble under a gang-saw in order to saw it into slabs. The gang-saw consists merely of a series of parallel saws, which on an oscillating motion is imparted while they are kept fed with sand and water.

The perfect slabs are cut into required lengths by a rip-saw and passed to the rubbing bed to be rubbed smooth. The rubbing bed consists of a solid horizontal cast-iron block about four inches thick and usually about twelve or thirteen feet in diameter.

When the slab leaves the rubbing-bed it is comparatively smooth, and is ready to be cut out by hand into its final shape. It then passes into the hands of the polishers, who are provided with rubbers made of ordinary tacking rolled up into a mop of about three or four inches in diameter and sewed firmly through and through.

In grinding, four or five gold leaves are blown into a cushion made of a board covered with charcoal. The glider cuts it into strips a quarter of an inch wide, lays it on the marble with his "tip," then "cottons" it on, after which he rubs it down with a fine hair brush in order to smooth the laps and form an even and continuous surface.

The variegated, dark-colored marbles are more expensive, but they are also generally harder and more durable, as well as more beautiful, than those that are white or light colored. The common white marble, which is not so valuable from an ornamental point of view, has a separate value as being the best basis for the production of carbonic acid gas for the manufacture of "soda" water, and all other carbonic beverages, and a large trade is done in it for this purpose.

As far as chemical composition is concerned marble and whiting are analogous; both are carbonates of lime, and when treated with acids, give off the same amount of carbonic acid. Whiting, however, is rarely, if ever, as pure as marble. It consists chiefly of the remains of extremely small animals.

The Real Estate Record says that fire bricks show that porous terra cotta bricks and blocks best resist fire, water and frost. Next to these in the order of fire-resisting qualities come concrete and burned clay bricks. In the best work done, the iron work is incased in porous terra cotta, tile or brick work in roof, floor, and tile construction.

ELLIS & WHITNEY,

Proprietors of the Favorite Livery and Feed Barns. Good rigs always on hand and furnished on short notice. Private boarding of horses and stock a specialty. Office and barns at the corner of Trade and Commercial streets.

\$500 Reward FOR AN UNCURABLE CASE OF THE GOLDEN RALSAM. Leitch's Golden Balsam No. 1 Cures Chancres, etc. Second stage Sores on the Legs and Body, Sore Glands, Ears, Nose, etc.

C. F. RICHARDSON & CO., Agents, 427 & 429 Exchange St., San Francisco, Cal. CIRCULAR MAILED FREE.

Capital City Restaurant. Jas. Batchelor, Prop'r. Warm Meals at All Hours of the Day.

Small Farms for Sale. A number of ten-acre tracts of desirable and within one and a half miles of Salem, at prices ranging from \$50 to \$100 per acre. Apply to WILLIS & CHAMBERLIN, 628-1/2m Opera House Block.

NEW LIVERY STABLE. Gaines Fisher, Proprietor. Corner Ferry and Liberty streets, N. E. cor from Chemekete hotel, Salem, Or.

J. J. CULVER County Surveyor, JAMES WALTON Topographer, W. H. BYARS Civil Engineer. Surveys, drafts, plats, maps and descriptions of lands, townlots, and roads, ditches, streets, sewers, alleys, etc. made and furnished at reasonable prices.

OREGONIAN RAILWAY CO. (Limited Line.) CHAS. N SCOTT, Receiver. On and after June 23 1889 and until further notice trains will run daily (except Sunday) as follows:

A=Grand=Clearance=Sale --AT-- LUNN & BROWN'S, Beginning on the 6th of December, 1889, and Ending January 1, 1890! For cash only. All goods without reserve at actual cost until January 1st 1890, in order to reduce stock before invoicing, and to prepare ourselves for Spring trade.

CLOAKS AND FURS, CARPETS AND RUGS, AND A LARGE STOCK OF MEN'S FURNISHING GOODS. Space will not allow us to mention all goods. Come early and late. Goods once bought not taken back or exchanged. LUNN & BROWN.

Meeks & Minton. Have received and answered over One Thousand Letters of Inquiry RELATIVE TO OREGON SINCE JUNE 17, '89. No charges, no commission, unless we sell your property.

First National Bank. SALEM, OREGON. WM. N. LEADNER, President. DR. J. RAYNOLDS, Vice President. JOHN MOIR, Cashier.

GENERAL BANKING. Exchange on Portland, San Francisco, New York, London and Hong Kong bought and sold. State, County and City warrants bought. Farmers are cordially invited to deposit any business papers.

The Capital National Bank. ESTABLISHED BY NATIONAL AUTHORITY. SALEM --- OREGON. Capital Paid up, \$75,000. Surplus, 10,000.

Northern Pacific Railroad. GREAT OVERLAND ROUTE. TWO FAST TRAINS DAILY! NO CHANGE OF CARS. SHORTEST LINE TO CHICAGO.

NOTICE. NOTICE is hereby given that the expenses assessment of two hundred dollars for the month of December, 1888, against the incorporation of the Gold Mountain and Dry Gulch Consolidated Gold and Silver Mining Company, is past due and unpaid on the following shares.

FOR MEN ONLY! POSITIVE CURE. For General and Nervous Debility; Weakness of Body & Mind; Impaired Appetite; Loss of Sleep; Headache; Premature Ejaculation; Indigestion; Nervousness; and all the symptoms of Debility.

City Tax Notice. The Salem city taxes are now due and payable at my office with Williams & England. Taxpayers will please govern themselves accordingly. E. J. SWOFFORD, City Tax Collector.

GEORGE WILKINS' NEW BUTCHER SHOP. On Liberty street, across the bridge in North Salem. All kinds of meats kept on hand.

For the Public Good. It is an indisputable fact that the handsomest vestibule trains that are now run on the Burlington route, leaving from Union Depot in Denver, arrive at Salem immediately on arrival of all through trains from the west.

DR. JORDAN & Co's MUSEUM OF ANATOMY. 761 Market St. San Francisco. Go and learn how to avoid disease. Consultation and treatment personally or by letter, on spermatorrhoea or genital weakness, and all diseases of men.

\$75 to \$250 a MONTH can be made preferred who can furnish a horse and give their whole time to the business. Spare moments may be profitably employed.

A. E. STRANG, No. 308 Commercial Street, SALEM, --- OREGON. ---DEALER IN--- STOVES and RANGES. Plumbing, Gas and Steam Fitting.

John A. Carson, COUNSELOR, ATTORNEY-AT-LAW AND NOTARY PUBLIC. Member of the Bar of Ontario, Canada. Office, 96 State Street, Salem, Oregon.

THOMAS & PAYNE, 96 STATE ST. SALEM. REFERENCE AT TORONTO: Hon. Sir Thomas Galt, Chief Justice of Ontario; Hon. James McLenahan, Judge of the Court of Appeals; Hon. W. P. R. Street, Judge of the Queen's Bench.

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WANTED. WANTED.—To rent a dwelling house with six or seven rooms. Inquire at my office, Capitol building. FRANK C. BAKER.

LOST. LOST—A large black Gordon setter dog with leather collar on, a tick in the tip of the right ear, scar on the left side of the back of the head. A liberal reward is offered for the return of said dog to L. F. Conn, Salem, Oregon.

K NIGHTS OF PYTHIAS.—Regular meeting on Tuesday night of each week at 7:30 p. m. L. R. STINSON, C. C. W. H. H. WATERS, R. of R. and S.

PHYSICIAN.—MRS. DR. M. E. MCCOY, physician and surgeon, has located and taken rooms over Squire Farrar's grocery store, Chronic diseases a specialty. Consultation free. 12-1/2m

PHYSICIAN AND SURGEON. ANDREW H. DIVEN, Salem, Oregon. Office hours: 9 to 11 a. m., 3 to 6 and 7 to 9 p. m.

J. C. SMITH, M. D., PHYSICIAN AND SURGEON. Office with Dr. J. N. Smith, Griswold block, Salem, Oregon.

WILLAMETTE UNIVERSITY. Graduates Students In Classical, Literary, Scientific, Normal, Business, Law, MEDICAL COURSES.

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A New Dressmaker. MRS. F. A. CRUMP, A New York Modiste who has had fifteen years' experience in Cutting and Fitting.

Just Received. At Charles Calvert's Millinery Bazaar one of the finest lines of Millinery goods ever brought to Salem. All goods are of the latest design and have been brought direct from the Millinery Emporiums of San Francisco.

Established 1868! The Oldest and Staunchest Between Sacramento and Portland. LADD & BUSH, Bankers, Iron Building, Salem, Oregon.

DEAR GIRLS: Take no Tuffy from any young man, but if they offer you a nice Box of Hellenbrand's Square Chocolate Creams, made only by his Patent Process, take them, and tell them to come again, for they are superior to any made in the United States.

Miss Leona Willis, TEACHER OF MUSIC. Lessons given in voice culture and Italian singing, piano and organ. Special attention given to beginners.

J. H. HAAS, Watchmaker and Jeweler, COMMERCIAL STREET. First-class work warranted. Give him a call and you will not regret it. 7-1/2m

BILLIARD AND POOL ROOMS. THE ONLY FIRST-CLASS CIGAR STORE IN THE CITY. Imported and Domestic CIGARS and TOBACCO! 243 Commercial Street. Reception Saloon.

MRS. M. E. WILSON, Milliner and Dressmaker. Invites the ladies of Salem and vicinity to call and inspect her select stock of Fall Millinery that has just arrived. She will pay particular attention also to the latest styles of dressmaking.

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THE YAQUINA ROUTE. OREGON PACIFIC RAILROAD. And Oregon Development company's steamship line. 235 miles shorter, 20 hours less time than by any other route. First class through passenger and freight line from Portland and all points in the Willamette valley to and from San Francisco.

Overland to California. Southern Pacific Company's Line. The Oregon Pacific Steamships on the Willamette river division will leave Portland, south-bound, Monday, Wednesday and Friday at 6 a. m.

THE MOUNT SHASTA ROUTE. Time Between Salem and San Francisco 36 Hours. CALIFORNIA EXPRESS TRAIN—RUM DAILY BETWEEN PORTLAND AND S. P.

PULLMAN BUFFET SLEEPERS. TOURIST SLEEPING CARS. For accommodation of second class passengers attached to express trains. The S. P. Company's ferry makes connection with all the regular trains on the East Side Division from foot of F Street Portland.

Through Tickets. To all points SOUTH and EAST. Union Pacific R. R. Company "OVERLAND ROUTE."

MARVELOUS MEMORY DISCOVERY. Only Genuine System of Memory Training! Four Books Learned in one reading. Mind wandering cured. Great inducements to correspondence.

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