

PORTLAND BUSINESS DIRECTORY

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NA-PEER TIRES one size only 30X3 1/2
 Dealers Write for Special Proposition
PORTLAND RUBBER MILLS, PORTLAND, ORE. **\$19.00**

BROOMS Keep the Northwest Prosperous by using Northwestern Made Goods.
ZAN BROS., Inc.

Phone Marshall 3641 **Grace Adams** Res. Phone, Tabor 8869
Optometrist & Optician Fifth and Washington
 Sweetland Building Rooms 419-424-425 Portland, Oregon

Hotel Alder Rooms \$1 per day and up. Special monthly rates. Out-of-town visitors made to feel at home. Southern Pacific electric train depot in same building. J. W. BUSHONG, Manager, 285 Alder St., cor. 4th. - PORTLAND, ORE.

ORIENTAL CAFE AMERICAN and CHINESE DISHES. Service at all hours. Music and Dancing. Meet your friends here and enjoy your stay in Portland. Upstairs, corner Broadway and Washington Sts.

'L' Cafeteria BEST PLACE IN TOWN TO EAT. We especially invite out-of-town visitors to give us a trial. We will make you feel at home. Sixth and Alder Streets. PORTLAND, ORE.

Orpheum At HEILIG THEATER THE BEST OF VAUDEVILLE. Presenting at all times the Biggest American and European Novelties. Every SUN, MON., TUES., WED. Mat. Daily, 10c to 50c. Nights, 10c to \$1.00

CONLEY'S USED CAR CENTER 127 Lowndale Street. We will pay you cash for late model cars or sell them for you. Remember the place—Brick Building, at intersection of Wash., 15th and Burnside.

DYEING, CLEANING BROADWAY, DYE & CLEANING WORKS. 200 Broadway, Portland, Ore.

AUTO Parts The House of Parts and Accessories for Autos. We will send you Parcel Post anything you may want for the Auto if it can be secured in the city. LONG & SILVA, 462 Hawthorn, Portland, Oregon

FARM IMPLEMENTS Cleveland Tractors, Studebaker Wagons, Iron Age hand garden cultivators and seeders, horse cultivators and potato planters, Brandner Bull Dog auto tires, Tungsten spark plugs, Wade drag saws. P. E. Ebershad, 330 East Morrison st., Portland, Ore. Largest retailers in Northwest. Send for Catalogue

We Will Rent You an Auto City Garage and You Drive It Yourself. REASONABLE RATES. Also general garage business. 86 Tenth st., near Stark.

Edith I. Phillips, Optometrist and Optician 450-451 Pittcock Block Washington at West Park Phone Broadway 1306 Portland, Oregon.

SCHOOL OF DRAMA AND EXPRESSION Stage, Platform, Story Telling, Dramatic Reading, Coaching and Physical Culture. Special attention given to acquiring vocabulary and extemporaneous speaking. MARIE B. VAN VELSOR, 409 Bush & Lane Bldg., Broadway and Alder. Main 2239.

GOODNOUGH MUSIC SCHOOL PIANO-VOICE. Diplomas Issued. 680 East Wash. St., Cor. East 19th. Phone: East 7216, 8-1761. Portland, Ore

You Will Feel Right at Home. Beautifully Furnished Rooms. **Central** \$1.00 Without Bath \$1.50 With Bath Weekly Rates Monthly Rates **NORTONIA HOTEL** 11th and Stark, PORTLAND, ORE. Excellent Cafe and Roof Garden

GIRLS! For Cultivating Long Beautiful Eyelashes and Eyebrows nothing can compare with "LASHE" at all Druggists. ORIENTAL LABORATORIES, Portland, Ore.

Make more Money Pull big stumps by hand Clear your stump land cheaply—no digging, no expense for teams and powder. One man with a K can rip out any stump that can be pulled with the best inch steel cable. Works by leverage—same principle as a jack. 100 pound pull on the lever gives a 48-ton pull on the stump. Made of the best steel—guaranteed against breakage. Endorsed by U. S. Government experts. **HAND POWER Stump Puller** Write today for special offer and free booklet on Land Clearing. Walter J. Fitzpatrick Box C 187 Fifth Street San Francisco California

JUST OUT—Complete History **America's War For Humanity** Including peace terms, 600 pages; 100 beautiful illustrations. Cloth bound, \$2.00; Buckram, \$2.50. Free literature; also large photo Wilson. FISHING. CRESCENT SUPPLY CO., 312 Sweetland Bldg. Agents Wanted

EVERYTHING FOR THE OFFICE **OFFICE FURNITURE & APPLIANCES** PRINTING :: ENGRAVING :: BOOKBINDING **Waltham** COMPLETE LINE OF STEEL FILING DEVICES AND SYSTEMS

Mark Your Shipments to **Haywood Co.** Highest Prices, Prompt Pay Best Service. CASH BUYERS OF Cream, Eggs, Poultry, Veal and Hogs. Creamery and Offices, Front and Ankeny Sts.

SEE THE **Izard Generator** making pure Gas from Coal Oil. Fits any stove or range. Has no equal for cooking, heating, furnaces, etc. Easy to operate. No dirt, soot or odor. AGENTS WANTED **IZARD GAS HEATING CO.,** 244 Washington St., Portland, Oregon

DON'T WASTE THE CREAM! The Simplex Cream Separator is the most complete made anywhere. Practical experience has proven the SIMPLEX to be the most efficient means of increasing Cream production. Write for catalog showing our full line of Dairy Supplies and Barn equipment. **MONROE & CRISSELL** New Location, 91-93 Front St., PORTLAND, ORE. THE BEST EATS IN THE CITY **St. Nicholas Cafeteria** 125 Sixth Street, Portland, Oregon. See what you want and pay for what you get.

When You Want to Buy a **Diamond** buy it from a reputable store. Jaeger Bros. are known as the leading diamond experts of Portland. See their Special \$100.00 Diamond. **JAEGER BROS.,** (Oregon) 131-3 1/2 5th St., Portland, Ore.

MR. BUSINESS MAN Are you wanting to sell. We have buyers for general stores, groceries, confectionery, cigars, restaurants, etc. Send me description. **F. RIBERDON, RETAIL, LOWE & CO.,** 202-5-7 Board of Trade Bldg.

ACCORDION PLEATING Skirts pleated any style, \$1.00. Hem-stitching, 10c per yd. Buttons covered. Eastern Novelty Mfg. Co., 85 1/2 Fifth St., Broadway 2000

AGATE CUTTERS & MFG. JEWELERS Jewelry and watch repairing. Miller's, 255 Wash. St., Majestic Theater Bldg.

ARTIFICIAL LIMBS Oregon Artificial Limb Co., Inc. Write for Catalog. 425 Wash St., Portland, Ore.

AUCTIONEERS—IN HAND FURNITURE Ford Auction Co.—Auctioneers. We sell everything. 191 Second St., Portland.

AUTO BARGAINS Used Buick roadster \$266. Powerful engine. Two new tires, tools, etc. This business hungry good for 75,000 miles of hard country service. No self-starter to get out of order. Payments to suit responsible party. Western Newspaper Association, 219 Oregon Bldg., Portland, Ore.

AUTO ACCESSORIES Motors, gears, bearings, wheels, axles, and trailers. We wreck all makes of cars and sell their parts at half price. David Hodas Co., N. Broadway and Flanders.

MEET ME IN PORTLAND At one of the most elegant Billiard Rooms on the Pacific Coast. **Bowie & Caldwell's** Second Floor Pittcock Block

CARPET WEAVING AND CLEANING Fluff Rugs From Old Carpets Rag Rugs, all sizes. Mail orders prompt. Send for Booklet. WESTERN FLUFF RUG CO., 54-58 Union Ave. N. East 6518, B-1475

BUILDING MATERIALS Send for booklet on Farm Buildings of Denison Interlocking Tile. It is free. P. L. Cherry Co., 371 Hawthorne Ave., Portland, Oregon.

CITY AND FARM PROPERTIES We protect your interests. Farms, timber, acreage, city, exchanges. Gilson Realty Co., 431 Ch. of Commerce, Main 6127.

CLEANING AND DYEING For reliable Cleaning and Dyeing service send parcels to us. We pay return postage. Information and prices given upon request. **ENKE'S CITY DYE WORKS** Established 1890 Portland

DRUGS BY MAIL Anything in Drugs, Rubber goods, Toilet Articles etc. We pay postage. Satisfaction guaranteed. Joe M. Rice, 365 1st St., Portland.

Send to us for anything in Drugs, Rubber Goods, Trusses, etc. Postage prepaid. **Plummer Drug Co.,** 260 3d St., Portland.

FARMS WANTED If you have a farm for sale write us, giving detailed description. We are specializing in the sale of farm lands. G. S. Smith Co., Chamber of Commerce Bldg., Portland.

FINANCIAL MORTGAGE LOANS For Mortgage Loans see OREGON INVESTMENT & MORTGAGE CO., 220-22 Chamber of Commerce Bldg., 4th and Stark, Portland Oregon.

FARM LOANS On improved farms in Oregon—Long time if desired, and at lowest current rates. **Wm MacMaster, 331 U. S. National Bank Bldg., Portland.**

FARM TRACTS Own a farm tract where everything grows year around; fine climate, boating, bathing, fishing, shell roads. Let me send you one hundred views of this wonderful country between Houston and Galveston. Easy monthly payments, over five hundred producing oil wells in sight. Company drilling on this property now. Write or wire today—% sold out. Have parties who will plant your tract on shares. Let me tell you about it. **W. E. COGDELL,** Chamber of Commerce Bldg., Portland.

HIDES AND JUNK L. Shank & Co., 312 Front St. Pay full market values for hides, pelts, old rubber, metals, etc.

HIDES, WOOLS & CASCARA BARK We pay highest prices—Write us for quotation. **Kahn Bros., 195 Front St.**

HOT AIR FURNACES Stale, dry air made moist and invigorating by our process. 404 N. W. Bank Bldg., Portland, Oregon.

Stop at **The Portland Hotel** when in Portland. Rates \$18 up in the heart of the city. Richard W. Childs, Mgr.

J. C. ENGLISH CO. Electric Washing Machines SOLD ON EASY TERMS. 146 Fifth Street, Portland, Oregon Second Floor bet. Morrison and Alder.

De Laval Separators Everything for the Dairy, Creamery and Cheese Factory. Distributors of **JAMES BARN EQUIPMENT** ACME FEED CUTTERS ALPHA GAS ENGINES EMPIRE MILKING Machines Write for prices or information. **COLUMBIA DAIRY SUPPLY CO.,** 92-94 Front St., Portland, Oregon

HIDES, WOOL, TALLOW **BISSINGER & CO.,** P. O. Box 4578, 145 to 154 13th St. N., Cor. Irving, Portland. Main Office, San Francisco. Branches: Seattle, Spokane, Boise, Salt Lake, Reno, Billings, Missoula, Vancouver, B. C.

OPTOMETRIST AND OPTICIAN **GLASSES AT A SAVING.** Patronage solicited on basis of capable service and reasonable charges. Thousands of satisfied patrons. A trial will convince. **Chas. W. Goodman, optometrist, 309 Morrison, Portland, Oregon.**

PHYSICAL THERAPEUTICS **Dr. J. C. Phillips, 506 Broadway Bldg.** Disorders of the stomach, liver, kidneys, bowels, goitre, high blood pressure and female disorders.

PLUMBING & PLUMBING SUPPLIES We can supply you with any kind of plumbing supplies at wholesale prices. We will gladly estimate cost of any job. Write for prices. **STARK-DAVIS CO.,** 212 Third St., Portland

PERSONAL **MARRY IF LONELY;** for results, try me; best and most successful "Home Maker"; hundreds rich with marriage soon; strictly confidential; most reliable; years of experience; descriptions free. "The Successful Club," Mrs. Purdie, Box 556, Oakland, Calif.

PAINTS AND WALL PAPER Paints and Auto finishes. Wholesale and retail. **BOLLS Wall Paper Co., 229 Morrison St.** Write us for prices. **Pioneer Paint Co.,** 156 First St., Portland.

PORTABLE DRAG SAW Most highly improved Drag Saw on the market. Has the only real and practical clutch. Write for particulars and special prices. **BEAVER MOTOR PRODUCTS CO.,** 246 Hawthorne Ave., Portland.

PORTLAND Go with the crowd to the Abington Bldg., Portland to buy, sell or exchange Real Estate. **Frank L. McGuire.**

SANITARIUMS **WHY THE MILK CURE?** Ask the Moore Sanitarium. An institution devoted to doing one thing well. Office 908 Selling Building, Portland, Oregon.

SANITARY BEAUTY PARLOR We help the appearance of women. Twenty-two inch switch or transformation, value \$7.00, price \$2.45. 409 4th St., Dekum Bldg.

SCHOOLS AND COLLEGES **EMORY HARRIS COLLEGE** Wants Men, Women to learn the trade; positions waiting; send for catalogue. **MISS DECKER'S Private Business College,** Alving Bldg., 3d & Morrison Sts.

Hawthorne Auto & Gas Engine School, 462 Hawthorne Ave. Practical experience in overhauling and repairing every make of auto and gas engine. Oxyacetylene welding. Established 1907.

SILOS AND GRAIN BINS The only exclusive silo factory. No Hoops, No Nails, No Trouble. Stay Found Silo Co., 501 Dekum Bldg., Portland, Oregon.

TAILORED SUITS Suits to order, 118 down, \$5.00 per month. Unique Tailoring Co., 104 Fourth St., Portland.

WALL PAPER AND PAINTS Wall paper and paints. Wholesale and retail. **BOLLS Wall Paper Co., 229 Morrison St.**

WANTED Man with Ford and \$500 Capital to sell **Keweenaw Light and Water Systems** road territory still open; write and give selling experience. **M. D. Spencer, Distributor, 333 E. Morrison, Portland, Oregon.**

DRESSED PORK 25c We pay 25c for top block pork. We pay 20c for top young veal. Can use heavy, rough veal and pork at less. We never charge commission. **Frank L. Smith Meat Co.,** 228 Alder St., Portland, Or. March 27th, 1913.

BEEMAN GARDEN TRACTOR and Walking Engine \$285.00 at the factory

Perfected After Years of Testing and Improving. A One Horse Motor Cultivator and an All Purpose 4 H. P. Power Plant that Goes from Job to Job on Its Own Power. **WENTWORTH & IRWIN, INC** Second Street at Taylor

PORTLAND, OREGON The man dressed in a little brief authority is generally very proud of his apparel.—Boston Transcript.

Your Granulated Lactus, Eyes inflamed by exposure to **Sun, Dust and Wind** quickly relieved by **Murine Eye Remedy.** No Smarting, just Eye Comfort. At Your Druggists or by mail 60c per Bottle. For Book of the Eye free write **Murine Eye Remedy Co., Chicago.**

Are You Satisfied? **BEHNKE-WALKER BUSINESS COLLEGE** is the biggest, most perfectly equipped Business Training School in the Northwest. Fit yourself for a higher position with more money. Permanent positions assured our Graduates. Write for catalog—Fourth and Yamhill, Portland.

ELECTRIC MOTORS Bought, Sold, Rented and Repaired **WALKER ELECTRIC WORKS** Burnside, cor. 10th, Portland, Ore.

BUY DIRECT Do Your Own Plumbing

By buying direct from us at wholesale prices and save the plumber's profit. Write us today your needs. We will give you our rock-bottom "direct-to-you" prices, f. o. b. rail or boat. We actually save you from 10 to 25 per cent. All goods guaranteed. Northwest headquarters for Leader Water Systems and Fuller & Johnson Engines. **STARK-DAVIS CO.,** 212 Third Street, Portland, Oregon

PRODUCING PIGS FOR THE MARKET

Young Animals That Gain Rapidly in Weight Make Greatest Profit for Breeder.

KEEP RUNNING TO CAPACITY

First Opportunity to Force Them is When They Are Few Days Old —Pen Should Be Arranged for Them.

(Prepared by the United States Department of Agriculture.)

It is of the greatest importance in producing pigs for the market that they gain in weight as rapidly as possible. The modern hog is a highly specialized and efficient machine for the conversion of grain and roughage into edible meat; but to obtain the greatest efficiency, to make the most pork from a given amount of feed, to make the best pork, and to make that pork most economically the machine must be kept running to capacity from birth to the time of marketing. Nothing is more important than this factor. The question of breeding, the kind of feeds fed, and the proportion of the protein to the fattening elements in the ration are all important and are all means to the same end, but if the greatest profit is to be returned to the feeder his pigs must make maximum gains at all times.

The first opportunity to force the pigs comes when they are a few weeks old. Up to this time they have been living solely on their dam's milk; in fact there is no successful substitute,



A Good-Sized, Profitable Litter.

as has been demonstrated by repeated failures to raise newly-born pigs on cow's milk. The milk of the sow is much richer in protein, fat, and ash than is cow's milk, and the latter makes such a poor substitute that pigs under two weeks of age usually die of digestive troubles following its exclusive use. After growing for three weeks the young pigs begin to have an appetite for some feed to supplement the sow's milk, and they should be fed, for unless they are the strain on the sow will be a very serious one. The pigs will eat from the sow's trough, especially if she is being fed on thin, sloppy feeds. A pen should be arranged adjoining that of the dam and separated from it by a partition with sufficient room at the bottom to allow the pigs to run under. In the inclosure to be used by the little pigs place a low, shallow trough to contain their skim milk or mash.

Best Feeds for Pigs.

The best feeds for pigs at this age are dairy products, such as skim milk, or buttermilk. These, mixed with mill feeds, as middlings, shorts, and even a cheap grade of flour, or with a meal of ground oats from which the hulls have been removed, give excellent satisfaction. Some feeders use the self-feeder at this time, placing it inside a creep that will admit to the pigs their grain at all times.

ALFALFA IS VALUABLE CROP

Plant is One of Best Soil Builders, But Seed Must Be Inoculated Before Sown.

Alfalfa is one of the best soil builders, but to do its work the seed must be inoculated before sown. That is, the seed must be treated with bacteria—soil-building bacteria we will call them. This can be done by coating the seed with a growth of the bacteria secured through your county agent, who will also tell you how to use it, or by scattering soil from an alfalfa field upon the ground to be planted. Soil on which sweet clover has been grown will do just as well as soil from an alfalfa field.

Butter Fat. While the percentage of butter-fat will not vary much by feeding, we can change it by breeding, feeding and selection.

Garden Soil. There is nothing of more importance for vegetable gardening than a well-prepared, rich soil.