THE MORNING ASTORIAN, ASTORIA, OREGON.

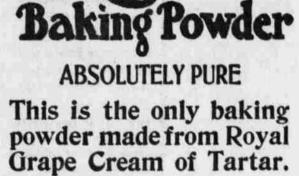
bore a 2-inch hole which is to re CLASSIFIED ADVERTISEMENTS ceive a cross stake. At a distance of 22 inches from the other end of the front slab, locate the center for another cross stake. The hole for the HELP WANTED PROFESSIONAL CARDS. middle stake will be on a line connecting and halfway between the two \$2.00 STARTS A FINE LOCAL ATTORNEYS-AT-LAW Then place the back slab in position business, daily profits \$5 to \$10; parand from the end which is to drag in CHARLES H. ABERCROMBIE ticulars free; write today. B. F. Loos the middle of the road measure 20 Co., Des Moines, Ia." inches for the center of one cross Attorney-at-Law stake and 6 inches from the other end **City Attorney** Offices: City Hall BOARD AND ROOM WANTED. locate the center of the opposite stake. The hole for the center stake JOHN C. MCCUE WANTED-ROOM AND BOARD should be located halfway between Attorney-at-Law with American family. Box 783, the two. All these holes should be Astoria. 644 Deputy District Attorney carefully bored perpendicular or a ight angles to the face of the spli Page Building Saite LOST. LOST-IF THE PARTY TAKING HOWARD M. BROWNELL If these directions are followed i the hat marked A. C. J. from the Attorney-at-Law will be found that when the holes of reading room probably by mistake, Office with Mr. J. A. Eakin, a: 420 the front and back slabs are brought will kindly return same to the police opposite each other, one end of the Commercal St., Astoria. station the owner will be greatly back slab will be 16 inches nearer the obliged, and wil return the one he center of the roadway than the front MASSAGE. one. That gives what is known as had to take. 'set back." The stakes, which are 30 DOCTORS PRESCRIBING MAS MISCELLANEOUS. inches long, will hold the slabs this sage, call Olga Landen, Finnish distance apart. When the stakes WANTED-BETWEEN JUNE 1ST masseuse, Pythian bldg., Commercial have been firmly wedged into their and 15th, a furnished house for the sockets, a brace about 2 inches thick street summer; good, careful tenant. Adand 4 inches wide may be placed diagdress H. G. Smith, care Warren OSTEOPATHS. onally to them at the ditch end of the Packing Co., city. drag. A cleated board is placed be-DR. RHODA C. HICKS tween the slabs and across the stakes for the driver to stand on. FOR SALE-REAL ESTATE. Osteopath Office Mansell Bldg. Phone Black 2065 By many it is deemed best to place 573 Commercial St., Astoria, Ore. FOR SALE-LOCKSLEY HALL strip of iron along the lower face Hotel, Seaside, Or.; this beautiful of the front slab for a cutting blade spot under the pines and overlooking DENTISTS and to prevent the drag from wearing. the ocean is for sale; best money-The drag may be fastened to the DR. VAUGHAN making property in the West; over doubletree by means of a trace chain. Dentist 100 rooms; modern in every way. The chain should be wrapped around Pythian Building, Astoria, Oregon For particulars apply to Mrs. L. A the left-hand or rear stake and passed Carlisle on premises. DR. W. C. LOGAN over the front slab. Raising the chain At the present time there are approximately 2,000,000 miles of earth at this end of the slab permits the Dentist FOR RENT. earth to drift past the face of the drag. Commercial St. Shanahan Bldg roads in the United States. Some of FOR RENT-TWO FURNISHED The other end of the chain should be the most important of these roads will housekeeping rooms. 425 Duane passed through a hole in the opposite BUSINESS DIRECTORY. eventually be improved with stone, end of the front slab and held by a street. 5-31-tf. FOR RENT-KITCHEN & DIN-RESTAURANTS. For ordinary purposes, the hitch ing room of hotel during summer. should be s made that the unloaded TOKIO, RESTAURANT. Address Box 48, Ilwaco, Wh. 5-29-6t. drag will follow the team at an angle of about 45 degrees. The team should FOR RENT-THREE UNFUR-Opposite Ross, Higgins & Co. be driven with one horse on either nished housekeeping rooms; elecside of the right-hand wheel track or tric lights and water. Apply 10th Coffee with Pie or Cake 10 Cts. rut the full length of the portion to be | and Bond, Opp. Occident Hotel. FIRST-CLASS MEALS dragged, and made to return in the 5-24-6t same manner over the other half of CORNER NINTH AND DUANE the roadway. Such treatment will RESTAURANT. Board \$5.00 and up. 5-9-tf. move the earth towards the center of 434 Bond Street the roadway and raise it gradually HOUSE MOVERS. above the surrounding level. The best results have been obtained Coffee with Pie or Cake, 10 Cts. FREDRICKSON BROS .- We make by dragging roads once each way a specialty of house moving, car-First-Class Meals, 15 Cts.

UNDERTAKERS. J. A. GILBAUGH & CO., Undertakers and Embalmers. Experienced Lady Assistant When Desired. **Calls Promptly Attended Day** or Night. Tatton Bdg. 12th and Duane Sts ASTORIA, ORE.GON Phone Main 2111 TRANSPORTATION. The "K" Line PASSENGERS FREIGHT Steamer - Lurline Night Boat for Portland and Way Landings. Leaves Astoria daily except Sunday at 7 p. m. Leaves Portland Daily except Sunday at 7 a.m. Quick Service Excellent Meals **Good Berths** Landing Astoria Flavel Wharf. Landing Portland Foot Taylor St. J. J. DAY, Agent. Regular Meals 15 Cts. and Up. Phone Main 2761. MEDICAL Unpreceiented penters, contractors, general jobbing; UK. G. GEŁ WO prompt attention to all orders. Cor-FISH MARKET. THE GREAT ner Tenth and Duane streets. CHINESE DOCTOR

Economizes the use of flour, butter and eggs; makes the biscuit, cake and pastry more appetizing, nutritious and wholesome.

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It Has No Substitute

There are Alum and Phosphate of Lime mixtures sold at a lower price, but no housekeeper regarding the health of her family can afford to use thom.

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THE SPLIT-LOG DRAG

Description of Simple but Thor- gravel, and other materials. Many pin passed through a link. ough Device

GREAT AID IN ROAD MAKING

Government Experts Tell of Its Util-Value to the Farmer.

the United States Department of Ag- than a heavy one, as well as to the When the soil is moist but not riculture treats of the split-log drag, shifting of the position of the opera-

others which are equally important cannot be so improved on account of lack of funds or suitable materials, while still others will not require such treatment because of the light traffic to which they are subject. For these reasons the majority of our roads must be maintained as earth roads for many years to come. This must be done by inexpensive methods ity and How to Make and Use it- and the split-log drag will be a power-Figures on Its Cost Enhance Its ful aid if economy is the criterion demanded.

In the construction of this impleed by the Office of Public Roads of readily to various methods of hitching a road in good condition.

ment, care should be taken to make after each heavy rain. In some cases, it so light that one man can lift it with however, one dragging every three or One of the latest publications issu-ease, a light drag responding more four weeks has found sufficient to keep.

sticky the drag does its best work.

THURSDAY, JUNE 4, '08

known

the greatest possible boon to keep box elder, soft maple, or even willow and its cheapness, both in construction icet long and from 10 to 12 inches in slushy. This is particularly appliction and operation, it is destined to diameter at the butt end. It should able before a cold spell in winter, come more and more into general use, be split carefully as near the center when it is possible to so prepare the inexpensive matter.

Exact Copy of Wrapper.

an implement which numerous exper- tor. The best material for a split- As the soil in a field will bake if log drag is a dry red cedar log, though ploughed wet, so the road will bake

With the drag properly built and its as possible, and the heaviest and best use well understood, the maintenance slab chosen for the front. In the of earth roads becomes a simple and front slab 4 inches from the end which is to drag in the middle of the road

> 900 DROPS For Infants and Children. The Kind You Have **Always Bought** ALCOHOL 3 PER CENT AVegetable Preparation for As-Bears the similating the Food and Regula ting the Stomachs and Bowels of Signature INFANTS CHILDREN Promotes Digestion. Cheerful of ness and Rest.Contains neither Opium.Morphine nor Mineral. NOT NARCOTIC. Recipe of Old Dr.SUMUTLPITCHER Penyskin Seed = Aix Seana + Bachelle Salts-Auser Seed + IN Propermint -Di Carbonole Sadar + Warm Seed -Classified Suppr -Watesgreen Flavor Use Aperfect Remedy for Constina tion, Sour Stomach, Diarrhoea Over For Worras, Convulsions, Feverish ness and LOSS OF SLEEP. Fac Simile Signature of **Thirty Years** Charff Flitchier. NEW YORK. At6 months old 35 DOSES - 35 CENTS Guaranteed under the Food a

iments have conclusively shown to be red elm and walnut are excellent, and if the drag is used on it when it is wet. every day from 7:30 a. m. until 5:30 If the roadway is full of holes or badearth roads smooth and passable. Be- are superior to oak, hickory, or ash. ly rutted, the drag should be used days, when bridge will be open for cause of its simplicity, its efficiency The log should be between 7 to 10 once when the ground is soft and travel on the afternoons only. 5-30-4t.

> surface that it will freeze smooth. Not infrequently conditions are met which may be overcome by a slight change in the manner of hitching. Shortening the chain tends to lift the front slab and make the cutting slight, while a longer hitch causes the front slab to sink more deeply into the earth and act on the principle of a plow.

If a furrow of earth is to be moved, the doubletree should be attached close to the ditch end of the drag, and the driver should stand with one foot on the extreme forward end of the front slab.

Conditions are so varied in different localities, however, that it is quite impossible to lay down specific rules. Certain sections of a roadway will require more attention than others, because of steep grades, wet weather springs, soil conditions, exposure to sun and wind, washes, etc. There is one condition, however, in which special attention should be given. Clay roads under persistent draggings frequently become too high in the center. This may be corrected by dragging the earth towards the center of the road twice, and away from it once.

There is no question as to the economy of this roadmaking implement, either in first cost or in operation. In six countries in Kansas in 1906 the cost of maintaining ordinary carth roads, without the aid of the split-log drag, averaged \$42.50 a mile. These figures were furnished by Professor W. C. Hoad, of the University of Kansas, who secured them from official records of the countries.

Some figures furnished by F. P. Sauborn and R. H. Aishton, General township in Iowa had been making Manager of the Chicago and North- an investigation of the split-log drag western Railroad, have revealed the and had been experimenting with it wonders of this simple device. Mr. for a year on 28 miles of highway, Sanborn said "the least expense per he sent an agent to secure informamile per annum for split-log dragging tion. It was reported that although was \$1.50, the greatest a little over the town board had paid the cost of \$6, and the average expense per mile making the drags and of hiring men for 5 1-2 miles a little over \$3. I to operate them, the total expense for have lived along this road all my life one year averaged but \$2.40 a mile,

