

arranged as to have no projecting parts to damage the papers, scratch articles of furniture, or catch in the clothing to the inconvenience of the reader. The paper file is adapted to be locked and opened with a key.

ANIMAL-POKE.—S. A. RITCHIE, North Middletown, Ky. Mr. Ritchie has invented a simple poke for animals, particularly horses. The device is fastened to the animal by yoke members around the animal's neck, the lock of this yoke being so arranged that it cannot be accidentally released by the animal rubbing it against a fence or tree. The yoke may be readily unlocked whenever it is desired to remove the device.

NOTE.—Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.

Business and Personal Wants.

READ THIS COLUMN CAREFULLY.—You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send you the name and address of the party desiring the information. In every case it is necessary to give the number of the inquiry.

MUNN & CO.

Marine Iron Works. Chicago. Catalogue free. Inquiry No. 2935.—For makers of wood box machinery and woodworking machinery of all kinds.

AUTOS.—Duryea Power Co., Reading, Pa. Inquiry No. 2936.—For manufacturers of small motor powers.

"U. S." Metal Polish. Indianapolis. Samples free. Inquiry No. 2937.—For dealers in X-ray machines.

WATER WHEELS. Alcott & Co., Mt. Holly, N. J. Inquiry No. 2938.—For makers of gasoline gas machines, for lighting.

Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O. Inquiry No. 2939.—For dealers in old metal type.

Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt. Inquiry No. 2940.—For makers of heating apparatus.

Die work, experimental work and novelties manufactured. American Hardware Mfg. Co., Ottawa, Ill. Inquiry No. 2941.—For dealers in or makers of aluminum tubing.

Let me sell your patent. I have buyers waiting. Charles A. Scott, Granite Bldg., Rochester, N. Y. Inquiry No. 2942.—For manufacturers of water wheels.

For metal articles, any kind, made any shape, write us. Metal Stamping Company, Niagara Falls, N. Y. Inquiry No. 2943.—For manufacturers of up-to-date slot machines, etc.

Agency wanted of meritorious goods, representing manufacturers. American Specialty Co., St. Paul, Minn. Inquiry No. 2944.—For electric plants, to be run by windmill power.

We design and build special and automatic machinery for all purposes. The Amstutz-Osborn Company, Cleveland, Ohio. Inquiry No. 2945.—For dealers in advertising novelties.

Inventions developed and perfected. Designing and machine work. Garvin Machine Co., 149 Varick, cor. Spring Sts., N. Y. Inquiry No. 2946.—For modern machinery required for a brick and cabinet-making plant.

IDEAS DEVELOPED.—Designing, draughting machine work for inventors and others. Charles E. Hadley, 564 Hudson Street, New York. Inquiry No. 2947.—For a compressed-air whistle for a fire engine house.

Manufacturers of patent articles, dies, stamping tools, light machinery. Quadriga Manufacturing Company, 18 South Canal Street, Chicago. Inquiry No. 2948.—For an attachment for a stationary boiler to use crude or other oils as fuel instead of coal.

Clippings of everything printed on any subject in the American and foreign press. United States Press Clipping Bureau, 153 LaSalle Street, Chicago, Ill. Inquiry No. 2949.—For an oil burner for cooking and heating purposes.

Patents developed and manufactured, dies, special tools, metal stamping and screw machine work. Metal Novelty Works Co., 43-47 S. Canal St., Chicago. Inquiry No. 2950.—For small, hollow rubber balls of the best rubber.

The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York. Inquiry No. 2951.—For small motor power to run with weights or spring to be used for small machinery of one or two h. p.

The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. By mail, \$1. Munn & Co., publishers, 361 Broadway, N. Y. Inquiry No. 2952.—For small manufacturers of alkaline products, such as soda ash, etc.

ROCKING CHAIR ATTACHMENT—Hatrack and wall pocket. Three household articles all combined in one. Patents for sale or will put on royalty to manufacture. Write for circulars. J. B. McGurk, Belt, Montana. Inquiry No. 2953.—For makers of hardware suitable for the manufacture of screen doors and win. lous.

A GREAT INVESTMENT FOR CAPITAL.—A rotary track sweeper. Every street car can clean its own track. The motorman has full control of the sweeper. Will make contract to have the sweeper manufactured and marketed on a royalty or will sell the entire United States patent. Address F. D. Branch, patentee, Decatur, Ill. Inquiry No. 2954.—For manufacturers of oil burners for furnaces or hot water heaters.

Send for new and complete catalogue of Scientific and other Books for sale by Munn & Co., 361 Broadway, New York. Free on application. Inquiry No. 2955.—For novelties for attracting attention to shop windows.

Inquiry No. 2956.—For stump pullers for uprooting tree stumps. Inquiry No. 2957.—For manufacturers of clay smoking pipes.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending July 22, 1902,

AND EACH BEARING THAT DATE.

[See note at end of list about copies of these patents.]

Table listing inventions with patent numbers and names of inventors. Includes items like Adjustable back chair, Advertising device, Air compressor, etc.

Table listing inventions with patent numbers and names of inventors. Includes items like Draft equalizer, Draft evener, Draft rigging, etc.

Table listing inventions with patent numbers and names of inventors. Includes items like Molding machine, Motion, mechanical movement for converting, etc.

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