

with gas or of volatilizable hydrocarbon as a heating medium. It is more particularly a combined muffle and melting furnace...

STOCKING-GUARD.—H. WELL, New York, N. Y. The stocking-guard is designed particularly for protecting children's stockings...

TOOTH-PICK-HOLDER.—C. A. YARRIN, Havana, Cuba. The holder is so constructed that a bundle of picks contained therein may be ejected one at a time...

NECKTIE-FASTENER.—G. GREITE, Guttenberg, N. J. The necktie-fastener comprises a plate of sheet metal provided with ears...

NUT-CRACKER.—W. V. DICKEY, San Antonio, Texas. The device is particularly well adapted for fracturing the shells of pecan nuts...

DRAFTSMAN'S INSTRUMENT.—E. C. LOETSCHER, Pittsburg, Pa. The instrument has for its object to provide a simple and convenient tool for drawing lines at various angles...

MILK-MODIFYING GAGE.—J. A. MITCHELL, New York, N. Y. The gage comprises a strip of sheet-material bent twice at right angles...

COOKING STOVE OR RANGE.—ELEANOR CLARKE, Mariasville, Pa. The stove embodies an extensive capacity for utensils in cooking...

MINIATURE THEATER.—A. L. MCCORMICK, Port Huron, Mich. The miniature theater provides an automatically operated apparatus in the nature of a model playhouse...

BEDSTEAD.—S. E. CLAUSSEN, Walla Walla, Wash. Mr. Claussen has invented an improvement in bedsteads relating particularly to the connection of the post with the rail of the bed...

PROCESS OF MAKING REPAIRED FABRICS.—D. MARGOLIUS, Norfolk, Va. This invention seeks to provide a method of effectually repairing mutilated rough bagging...

DESIGN FOR PICTURE-FRAME.—E. GOETTE, Newark, N. J. The leading feature of the design consists of a semi-wreath of leaves arranged with scroll effect upon a border...

DESIGN FOR RING TRAY.—J. L. HERZOG, New York, N. Y. The leading feature of the design consists in the body having a general diamond shape, the opposite sides of which are formed in segmental curves...

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...

MUNN & CO.

Marine Iron Works, Chicago. Catalogue free.

Inquiry No. 2431.—For makers of bathroom appliances.

Inquiry No. 2432.—For manufacturers of spring motors.

"C. S." Metal Polish. Indianapolis. Samples free.

Inquiry No. 2433.—For dealers in novelties.

WATER WHEELS. Alcott & Co., Mt. Holly, N. J.

Inquiry No. 2434.—For addresses of philatelic papers published in United States, Canada and South America.

Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O.

Inquiry No. 2435.—For makers of solid rubber bicycle tires.

Castings to order for oil, gas and gasoline stoves.

Atlantic Foundry, Phillipsburg, N. J.

Inquiry No. 2436.—For manufacturers of invalid chairs, etc.

Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 2437.—For manufacturers of celluloid and xylonite suitable for knife handles, etc.

Rigs that Run. Hydrocarbon system. Write St. Louis Motor Carriage Co., St. Louis, Mo.

Inquiry No. 2438.—For dealers in rolled gold wire.

Steel name stamps, stencils, steel letters and figures and brass checks. C. L. Alderson, Cleveland, O.

Inquiry No. 2439.—For manufacturers of steam riding galleries.

Are you looking for anything in bent woodwork? Write Lucker Bicycle Woodwork Co., Urbana, Ohio.

Inquiry No. 2440.—For machinery for making brackets and pins for telephone lines.

We design and build special and automatic machinery for all purposes. The Anstutz-Osborn Company, Cleveland, Ohio.

Inquiry No. 2441.—For the firms who make the felt covering for the United States government caissons.

FOR SALE.—To party direct, for cash, patent 608,325 on folding umbrellas. No selling agencies need answer. M. R. Studams, Bridgeton, N. J.

Inquiry No. 2442.—For manufacturers of plates of aluminum.

Manufacturers of patent articles, dies, stamping tools, light machinery. Quadriga Manufacturing Company, 18 South Canal Street, Chicago.

Inquiry No. 2443.—For machinery for making horn combs.

Factory room to let, with power, steam, elevators, etc. Good light, also storage room. Charles F. Kilburn, 84-86 St. Mechanic St., Newark, N. J.

Inquiry No. 2444.—For dealers in granulated copper or machinery for making the same.

WANTED.—Motor vehicle for passenger traffic on country roads. Large contract if sample all right. Electric Power Barred. Address E. and D., Box 774, N. Y.

Inquiry No. 2445.—For a cheap ice-making machine for household use.

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. 2446.—For manufacturers of acetylene gas generators.

IDEAS DEVELOPED.—Designing, draughting machine work for inventors and others. Charles E. Hadley, 584 Hudson Street, New York.

Inquiry No. 2447.—For manufacturers of ear tubes, etc.

Inventions developed and perfected. Designing and machine work. Garvin Machine Co., 149 Varick, cor. Spring Sts., N. Y.

Inquiry No. 2448.—For makers of solid, rust-proof harness metals, dashboards, etc.

WANTED.—A thoroughly reliable man to manage Steam Specialties Department in large wholesale house. Must be sober, competent and experienced. Give age, experience, references and salary expected. Address Box 482, New Orleans, La.

Inquiry No. 2449.—For makers of hollow copper or brass wire.

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. 2450.—For machinery for copying the flat surface of a clarinet mouthpiece.

Our specialty is cutting and forming metal parts any shape. Metal Stamping Co., Niagara Falls, N. Y.

Inquiry No. 2451.—For makers of paper rims or tires for placing over iron wheels.

FOR SALE.—Castings for 2 x 4 Corliss type engine with blue prints. Send for circular. E. A. Sikes, Lock Box 4, Cherry Valley, Mass.

Inquiry No. 2452.—For makers of electric motors.

Inquiry No. 2453.—For parties to make type-writer parts by contract.

Inquiry No. 2454.—For manufacturers of portable lamps burning kerosene.

Inquiry No. 2455.—For makers of broom machinery.

Inquiry No. 2456.—For manufacturers of marine pipe boilers for launches.

Inquiry No. 2457.—For dealers in telegraph and telephone supplies, also static machines.

Inquiry No. 2458.—For manufacturers of small cast iron specialties, such as toy engines, etc.

Inquiry No. 2459.—For the address of a ship-building or ship winchlass company in Canada.

Inquiry No. 2460.—For a partner to help build and patent an improved flying machine.

Inquiry No. 2461.—For dealers in celluloid novelties.

Inquiry No. 2462.—For manufacturers of automobiles.

Inquiry No. 2463.—For makers of horizontal wind mills.

Inquiry No. 2464.—For wholesale dealers in old iron, metal and rubber.

Inquiry No. 2465.—For makers of brass finger rings.

Inquiry No. 2466.—For manufacturers of hygro-meters.

Inquiry No. 2467.—For dealers in materials for covering shingles to prevent leaking.

INDEX OF INVENTIONS

For which Letters Patent of the United States were issued for the Week Ending

April 15, 1902,

AND EACH BEARING THAT DATE.

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

Table listing inventions with details such as 'Adjustable table or desk, E. Lindner... 697,639', 'Air masting apparatus, A. Siebert... 697,679', etc.

Table listing inventions with details such as 'Drilling machine, C. A. Wessman... 697,581', 'Dye and making same, red cotton, E. Winter... 697,765', etc.

(Continued on page 300)