

RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

BEET-PULLER.—M. W. PALMER Hamilton, Mich. The distinguishing feature of this implement is the construction which permits lifting the beets free of the ground without materially disturbing or breaking up the soil. The device somewhat resembles a mole plow, inasmuch as the beet-lifting means runs under the ground and is adapted to be drawn by horse power.

BEET-HARVESTER.—M. W. PALMER, Hamilton, Mich. The invention relates particularly to means for cutting off the tops of beets. Provision is made to limit the inward movement of the cutters toward each other and yet permit the cutters to move apart for the passage of unyielding obstructions. The cutters are of such construction that any one or more of the blades can be replaced whenever desired without interfering with the others.

CORN HARVESTER AND HUSKER.—T. P. and H. WEICHEL, Plymouth, Neb. These inventors have provided an improved corn harvester and husker which is simple and durable in construction, very effective in operation, and arranged to positively pull the ears from the stalks, to tear off the husks, and to finally discharge the husked ears in a wagon or other vehicle traveling alongside of the machine.

Electrical Apparatus.

COMBINED HOSE AND ELECTRIC SIGNALING DEVICE.—H. T. CRONK, New York, N. Y. The coupling is particularly adapted for connecting the hose sections of fire engines, being designed to preserve a tight joint even at high internal pressure and to allow the connection being made and unmade quickly. Complete separation and insulation of the metal parts is assured, thus permitting its use in connection with electric circuits along the hose.

APPARATUS FOR INSULATING OR COVERING STRANDS AND FORMING SAME INTO CABLES.—H. W. DOVER, Northampton, England. This invention relates to the manufacture of electric cables, and consists of apparatus for covering with celluloid, xylonite or similar material the conductors (whether plain or stranded wires) and also wire or fibrous cords surrounding the conductor, and forming the whole into a cable at one operation.

METHOD OF COVERING ELECTRIC CONDUCTORS AND MAKING CABLES.—H. W. DOVER, Northampton, England. The invention relates to the manufacture of telephonic and telegraphic cables at a single operation by the application of the insulating and protective material simultaneously to the conductor and to wire or fibrous cords used to impart tensile strength to the cable. The wires are protected from destructive influences by the insulating material in which they are embedded. The insulating material is applied by extrusion in the plastic state through a die which is traversed by the wires and cords to be covered, a twist being at the same time imparted which is rendered permanent by the setting of the insulating material.

Miscellaneous Inventions.

DUPPLICATOR.—S. CASE, Montezuma, Ind. The device is designed for duplicating or mailing checks, bills, and the like. The paper strips may be easily inserted in the duplicator which is simple and compact in construction and arranged to be conveniently carried in a person's pocket.

HOLDER FOR DUST-PANS, BROOMS AND DUST-BRUSHES.—J. M. MILLER, Crestline, Kan. This simple device is attachable upon the wall of a room at a suitable height from the floor, and affords convenient and reliable means for support of a dust-pan, broom, and dust-brush when the same are not in use.

VENTILATOR FOR FIRE-SURFACES OF RANGES.—A. E. MINNS, Brooklyn, N. Y. The construction of the device is such that in broiling, frying, or otherwise cooking food the smoke and odors will be compelled to pass down over the bed of the fire and find an exit through the flue, thus effectually preventing odors and smoke from escaping into the room.

CURRYCOMB.—C. E. HERSHBERGER, Luray, Va. The currycomb is designed to enable its face to better conform to the curved outlines of the horse. It is designed also to permit of the ready cleaning of the teeth of a currycomb from the accumulated mass of loose hair and dirt.

Designs.

CHAIR BACK.—A. WANNER, Jr., Hoboken, N. J. Mr. Wanner has received two patents for designs in chair backs. The leading feature of the first design is the internal members crossing each other and having their lower ends touching the side portions of a marginal frame and their upper portions curved outwardly upon themselves.

The leading feature of the second design is the internal members within a marginal frame and extending in upwardly diverging relation from a stem and having inwardly curved portions which overlap one another.

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Business and Personal Wants.

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MUNN & CO.

Marine Iron Works. Chicago. Catalogue free. **Inquiry No. 2594.**—For manufacturers of small glass tubes of special dimensions.

"U. S." Metal Polish. Indianapolis. Samples free. **Inquiry No. 2595.**—For manufacturers of ice machines.

WATER WHEELS. Alcott & Co., Mt. Holly, N. J. **Inquiry No. 2596.**—For manufacturers of spring steel wire.

Handle & Spoke Mch. Ober Mfg. Co., 10 Bell St., Chagrin Falls, O. **Inquiry No. 2597.**—For makers of steel springs.

Sawmill machinery and outfitts manufactured by the Lane Mfg. Co. Box 13, Montpelier, Vt. **Inquiry No. 2598.**—For dealers in paper boards for experimental purposes.

If making metal goods and needing special parts, write us. **Metal Stamping Co.** Niagara Falls, N. Y. **Inquiry No. 2599.**—For makers of soda water pumps.

Machinery designed and constructed. Gear cutting. The Garvin Machine Co., 149 Varick, cor. Spring Sts., N. Y. **Inquiry No. 2600.**—For parties to manufacture a very light but powerful motor for use on an air machine.

We design and build special and automatic machinery for all purposes. The Amstutz-Osborn Company, Cleveland, Ohio. **Inquiry No. 2601.**—For large dealers in bamboo.

WANTED.—Position as foreman in machine shop by competent man. Address C. M. S., No. 236 Humphrey St., New Haven, Conn.

Inquiry No. 2602.—For manufacturers of merry-go-rounds.

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

Inquiry No. 2603.—For granulated carbon for telephone transmitters.

PATENT FOR SALE.—Additional fixture to windmill to insure steady motion in change of wind. C. Oberlaender, care Mississ. Presse, Springfield, Mo. **Inquiry No. 2604.**—For manufacturers of German enamel ware.

The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company, Foot of East 13th Street, New York.

Inquiry No. 2605.—For machinery for manufacturing salt and for evaporating purposes.

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

Inquiry No. 2606.—For parties to manufacture cane handles of hardwood and of special dimensions.

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. 2607.—For dealers in liquid air.

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. 2608.—For makers of punches and dies, etc.

The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. Bymail, \$4. Munn & Co., publishers, 361 Broadway, N. Y.

Inquiry No. 2609.—For dealers in tin implements exclusively.

WANTED.—A good engineer capable of taking care of five blast furnace blowing engines, stating age, experience, references, etc. Address the Columbus Iron and Steel Company, Columbus, Ohio.

Inquiry No. 2610.—For makers of hat cleaning machines.

Manufacturers of slot machines, vending of every description, bar supplies and novelties. Send illustration with lowest cash price, f. o. b. New York. Large quantities. J. Landes, 103 Pitt Str., Sydney, Australia. **Inquiry No. 2611.**—For machines for making bricks out of sand by pressure.

Information about Corporations.—Business Corporations, their incorporation, organization and procedure. Send for our new list of practical corporation books, blanks and materials. The Ronald Press, 170 B'way.

Inquiry No. 2612.—For manufacturers of paper bag making machinery.

Patent store door show-case and frost preventor, using the glass in the door for lid, for sale, United States, \$350; Canada, \$250. Patent self-rising doll, cost 50 cents a dozen to manufacture, United States, \$250. W. G. Flint,

San José, Cal., U. S. A.

Inquiry No. 2613.—For machinery for making excelsior.

Press work done at short notice. Blanking and drawing our specialty. Estimates cheerfully furnished. Tools for all work made on premises if desired. Copper, brass and nickel plating. Correspondence solicited. Acme Ball-Bearing Caster Co., Chappaqua, N. Y.

Inquiry No. 2614.—For dealers in gasoline gas motors and engines of $\frac{1}{2}$ or $\frac{1}{4}$ horse power.

Inquiry No. 2615.—For makers of mechanical stokers.

Inquiry No. 2616.—For the manufacturer of braided metal center gas lines and of braided silk lines.

Inquiry No. 2617.—For dealers in pure silica and Fuller's earth.

Inquiry No. 2618.—For makers of gas plants or apparatus for producing either coal or acetylene gas for factory use.

Inquiry No. 2619.—For dealers in railroad velocipedes and light inspection cars.

Inquiry No. 2620.—For dealers in gutta percha tissue cement for tailors' use.

Inquiry No. 2621.—For electrical schools, west of the Mississippi preferred.

Inquiry No. 2622.—For makers of round mailing cases for sending liquid, etc.

Inquiry No. 2623.—For manufacturers of small carpet-cleaning machines.

Inquiry No. 2624.—For machines for stringing and tying strings on tags.

Inquiry No. 2625.—For makers of wire gauge lamp wicks.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending May 13, 1902.

AND EACH BEARING THAT DATE.

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

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Disintegrating machine, J. M. MacDonald	699,762
Display device, necktie, H. Runtz	699,715
Door mat, metal, J. W. Horner, reissue	11,985
Drainer, cellar or cistern, W. D. Labadie	699,959
Drawing instrument, M. C. Zange	699,738
Dry kiln, E. Gerrard	699,839
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Electric cables, manufacture of, J. H. West	700,107
Electric circuit safety fuse, D. G. Black	699,647
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Electric heater, M. C. Burt	699,651
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Electric meter, G. A. Scheeffer	699,899
Electric signal device, T. J. Hoover	699,841
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