

RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

FEEDING-RACK.—SAMUEL L. LAMOREUX, Titonka, Iowa. This improved feeding-rack is so constructed that its several parts may be conveniently adjusted for feeding milk, grain, or hay to calves without danger of spilling the grain or milk.

WEEDER.—WILLIAM D. LLOYD, Fiskville, Tex. The implement is designed to remove weeds and rubbish simultaneously from each side of a row or drill of corn, cotton, or other plants, and to direct the removed material to the longitudinal center of the row or drill. The implement is provided with hoes, which are given rotary reciprocating motion through gearing and cranks from the supporting-wheels. The hoes are normally held in contact with the ground and can be lowered whenever it is so desired. Independent driving mechanism is provided for each hoe.

CORN-HARVESTER.—ARTHUR W. RICHARDS, Indianola, Iowa. The invention is embodied in the mechanism employed for severing the ears from opposite sides of each row of stalks whatever be the difference of height of the several ears from the ground. The severed ears are deposited in a suitable receptacle provided on the machine. The different agents which sever the ears from the stalk are spiral reel-cutters extending longitudinally on the front portion of the machine plate, and arranged adjacent to a slot in the frame into and through which the standing corn passes as the machine advances. These reel-cutters differ in size, and one is arranged lower than the other and spaced from it a distance required to admit a row of cornstalks, so that the cutter operates simultaneously on opposite sides. Reciprocating cutters are likewise employed; and these are arranged below and parallel to the rotary reel-cutters, for the purpose of severing the ears that are not clipped by the upper cutters. The ears severed by the various cutters fall upon endless traveling aprons by which they are conveyed to the receptacle provided for them.

Electrical Apparatus.

ELECTRICAL DEVICE FOR THE TREATMENT OF DISEASES.—DR. WILLIAM J. GAVIGAN, Manhattan, New York city. The invention is based upon an entirely new theory of medical electricity. The spinal cord serves as a pathway to conduct motor impulses from the brain and sensory impulses to the brain. What Dr. Gavigan has done is to apply a flexible electrode to the entire length of the spinal cord and a flexible electrode to the body near the part showing symptoms of disease. Thus a current is passed from the spinal cord, through the corresponding nerve to the part showing symptoms of disease. Since all the vertebral spinal processes are covered by a set of electrodes, the seat of disease is necessarily reached.

Engineering Improvements.

PUMP.—HUDSON S. CLARK, Sigourney, Iowa. The purpose of this invention is to provide a simple, novel construction and arrangement of parts, whereby to prevent the circulation of sand with the water by the operation of the pump in drilled, driven, or other wells. Combined with the pump-tube and its inlet-pipes are a strainer-diaphragm fitting around the pump-tube, and inlet-pipes below the inlet-ends of the latter.

Mechanical Devices.

WIRE-STRETCHER.—WALTER Z. BRANNON, Brazos, Tex. The device is adapted for attachment to a post or other support and to the wire to be stretched; through the movement of a lever and of two gripping-arms, traveling upon the element to which the wire is attached. This element by one movement of the lever is carried in a direction to place the wire under renewed tension, one gripping-arm acting to bring about such result, the other gripping-arm acting to hold the wire under tension while the actuated arm is advanced for another grip, the locking-arm being free to travel upon the wire-holding element while the actuated arm is in service.

ELEVATOR-GEAR.—WILLIAM M. BAINBRIDGE, Elkton, Colo. The invention relates principally to the devices for locking an elevator-cage in inactive position. The gear is especially applicable to mining-cages. Dogs are pivotally hung on the cage and are to be operated by a hand-lever. A retractile spring tends to draw the dogs toward each other. By throwing the lever contrary to the action of the spring, the parts will be thrown into operative position; and when the elevator-cage is at the proper elevation the dogs will be seated.

WAVE-MOTOR.—RICHARD H. HANNAH, Ontario, Cal. The invention relates to a means for deriving motive power from the action of waves; and the special feature of the invention resides in certain novel devices for automatically regulating the position of the parts with respect to the varying elevation of the water due to tides and other causes.

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 them. In every case it is necessary to give the number of the inquiry.

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Marine Iron Works. Chicago. Catalogue free.

Inquiry No. 2156.—For modern machinery used in canning and preserving fruits and vegetables.

For logging engines. J. S. Mundy, Newark, N. J.

Inquiry No. 2157.—For the makers of the Oregon pine need pillows.

Motor Vehicles. Duryea Power Co., Reading, Pa.

Inquiry No. 2158.—For woodworking machinery, also machinery for the manufacture of pianos.

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

Inquiry No. 2159.—For a second-hand ditch digger.

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

Inquiry No. 2160.—For manufacturers of portable band sawing machines.

Stencil Machines.—A. J. Bradley, 101 Beekman St. N. Y.

Inquiry No. 2161.—For makers of toy balloons.

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

Inquiry No. 2162.—For machinery for making wool and cotton blankets.

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

Inquiry No. 2163.—For manufacturers of metallic bottles and boxes.

For sheet metal stampings and novelties try Standard Stamping Co., Seventh and Hudson, Buffalo, N. Y.

Inquiry No. 2164.—For makers of machinery for pulverizing, grinding and mixing clay with oils, etc.

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

Inquiry No. 2165.—For makers of acetylene gas machines.

We develop inventions through their several stages, manufacturing for the market. Amstutz Osborn Co., Cleveland, O.

Inquiry No. 2166.—For makers of oil and gas burners for heating purposes.

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

Inquiry No. 2167.—For manufacturers of cast-iron bells.

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

Inquiry No. 2168.—For a machine for making bricks out of sand by pressure.

WANTED.—Boss millwright for general factory repairs, replacements and alterations. Address Millwright, P. O. Box No. 653, New York City.

Inquiry No. 2169.—For makers of sheet metal dies for cutting and forming parts of padlock.

Designers and builders of automatic and special machines of all kinds. Inventions perfected. The W. A. Wilson Machine Company, Rochester, N. Y.

Inquiry No. 2170.—For parties to undertake the manufacture of a special metal clamp.

The celebrated "Hornby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York.

Inquiry No. 2171.—For some method of transferring designs in bronze from paper to cloth.

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

Inquiry No. 2172.—For makers of gears of all kinds.

WANTED.—A cheap engine-lathe that will swing from twenty-four to thirty inches over bed. Bed anywhere from ten to fifteen feet. J. W. Murkland, Barton, Vt.

Inquiry No. 2173.—For the address of the makers of the Interchangeable Safety Step.

WANTED.—Foundry chemist who can also superintend cupolas and produce iron at lowest cost. Young man preferred. Stover Manufacturing Company, Freeport, Md.

Inquiry No. 2174.—For parties dealing in electro nickel and silver plating supplies.

Wanted—Revolutionary Documents, Autograph Letters, Journals, Prints, Washington Portraits, Early American Illustrated Magazines. Correspondence Solicited. Address C. A. M. Box 773, New York.

Inquiry No. 2175.—For machinery for making glassware.

WANTED.—A horizontal 10 to 20 h. p. second-hand gasoline engine in A1 condition to run dynamo, Fairbanks make preferred. Address, with price and particulars, Paul Hunt, Belvidere Court, Boston, Mass.

Inquiry No. 2176.—For makers of machinery for a tanning extract plant.

Those using now Duplicators or desiring to reproduce many copies of writing—all alike—do well to state their needs to the original inventors of the latest multi-copyers. S. C. Beusinger, Manager, 265 Broadway, N. Y.

Inquiry No. 2177.—For machinery for making oil from castor beans, palm nuts, etc.

EXPERIMENTAL MACHINE SHOP.—We are not using our shops at present. Well equipped with lathes shaper, woodworking machinery, etc. Will rent use and power very low. Fine place for automobile work. Billings Clapp Co., Boston, Mass.

Inquiry No. 2178.—For dealers in hydraulic rams.

MANUFACTURER WANTED.—For patent shaft-governed high-speed engine, fully demonstrated, authentic tests. All machine works standardized for cheap production. Full working drawings and personal supervision if required. Address Y. K. E., at Horncastle's Advertising Offices, 61 Cheapside, London, England.

Inquiry No. 2179.—For manufacturers of iron or brass novelties for the mail order business.

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Inquiry No. 2180.—For makers of a combination kitchen range and water heating apparatus.

Inquiry No. 2181.—For manufacturers of kitchen cabinets.

Inquiry No. 2182.—For machinery for the manufacture of excelsior.

Inquiry No. 2183.—For a combination steam lawn mower and roller.

Inquiry No. 2184.—For manufacturers of "Spirit Lamp" for heating model engines of special dimensions.

Inquiry No. 2185.—For manufacturers of steam turbines.

Inquiry No. 2186.—For a small engine about 1/2 horse power.

Inquiry No. 2187.—For dealers in electric ceiling fans.

Inquiry No. 2188.—For manufacturers of card-board houses.

Inquiry No. 2189.—For brass or other metal tubing not larger than a common round lead pencil, not to bend easily.

Inquiry No. 2190.—For makers of wood, bone or rubber handles for printing advertising thereon.

Inquiry No. 2191.—For machines for making tin boxes.

Inquiry No. 2192.—For makers of modern hay presses.

Inquiry No. 2193.—For machinery for sorting, cleaning and cutting sardines.

Inquiry No. 2194.—For rag paper manufacturers to make special paper.

Inquiry No. 2195.—For small engines with 1 to 2 horse power boiler.

Inquiry No. 2196.—For an apparatus for burning lead.

Inquiry No. 2197.—For dealers in talcum powder.

Inquiry No. 2198.—For makers of hydrofluoric acid.

Inquiry No. 2199.—For an electrical flashing cabinet for advertising purposes.

Inquiry No. 2200.—For manufacturers of roller bearings.

Inquiry No. 2201.—For paper-making machinery.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending February 25, 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 entries like 'Acidyl dialkylrhodamin and making same', 'Adding machine duplicate printing mechanism', 'Aerator, milk, L. E. Morgal', etc.

Table listing inventions with patent numbers and names of inventors. Includes entries like 'Cask support, W. Griesser', 'Caster socket, W. Livingstone', 'Casting mold, J. J. Carroll', etc.

(Continued on page 177)

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Table listing various items and their prices, including Blacksmiths' tools, Blood specific, Boots and shoes, Corsets, Cream of tartar, Disinfectant, Fertilizing purposes, Food, Furniture, Gas generators, Glassware, Laxatives, Leather, Medical composition, Medicine, Medicines, Paints, Paper and envelopes, Papers, Pictures, Remedies, Respiratory devices, Shoes, Silks, Stiffeners, Suspenders, Tonic and medicinal food, Tonic and restorative medicines, Tonic, antiperiodic, and antipyretic preparation, Turpentine, Washing machines, Watches, Whisky, and Whisky.

LABELS.

Table listing various labels and their prices, including Blue Lion 36-Inch Percalé, Chlorothol, Diections, Grape Sugar Flakes, Home Brand, Home Brand, Home Brand, Home Brand, Johnie Bird, Marca Vuelta, Red Lion 36-Inch Percalé, Sunlight Soap, System Lenox, The Appetite Stomach Tablet, Whigen.

PRINTS.

Table listing various prints and their prices, including A Winning Pair for wine, Champagne Co.

A printed copy of the specification and drawing of any patent in the foregoing list, or any patent in print issued since 1865, will be furnished from this office for 10 cents, provided the name and number of the patent desired and the date be given.

Canadian patents may now be obtained by the inventors for any of the inventions named in the foregoing list. For terms and further particulars address Munn & Co., 361 Broadway, New York.

GEOLOGY OF THE CITY OF NEW YORK. By L. P. Gratacap, A.M. New York: The Author. 1901. 8vo. Pp. 82.

The author has prepared this work on the geology of Greater New York for use in schools, institutes and classes. As he holds an official position at the American Museum of Natural History, his facilities for obtaining material for his work are naturally excellent.

A GUIDE TO THE WILD FLOWERS. By Alice Lounsbury. Illustrated by Mrs. Ellis Rowan. New York: F. A. Stokes Company. 1899. 12mo. Pp. 347. Price \$2.60.

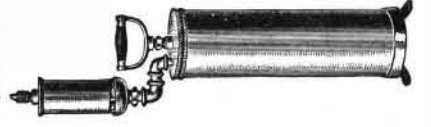
The work has 64 beautiful full-page colored plates showing 79 different plants and 100 black-and-white plates showing 103 plants, together with 54 diagrams. It contains descriptions of nearly 500 plants. It is complete in itself, employing no technical terms which it does not itself define.

MANUFACTURE OF PAINT. By J. Cruickshank Smith, B.Sc. London: Scott-Greenwood & Co. New York: D. Van Nostrand Company. 1901. 8vo. Pp. 200. Price \$3.

Literature upon paint-making is so limited that any addition to it will be warmly welcomed, especially when it is such an excellent work as the present. The author shows that he has a thorough and practical understanding of the subject. The volume is intended for the use of paint makers, primarily, but its contents will interest all dealers in the article.

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