

RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

CULTIVATOR.—GEORGE W. HENRY, Oil City, Pa. The cultivator comprises handles supported by a traction-wheel. At the forward portion of the handles, cultivator-teeth are arranged, between which and the traction-wheel is a driving connection. A rod is extended from the shaft of the traction-wheel; and with the rod a frame has swinging connection. A protecting hood is connected with the frame. During the forward movement of the machine, the hood will ride upon the ground; and the swinging connection of the frame with the rod will permit the hood to adjust itself to the formation of the ground.

FEED-REGULATING DEVICE FOR GRAIN-DRILLS.—ROBERT H. SCHLACHTER, Clay Center, Neb. The invention provides a means whereby the amount of seed delivered from the discharge-opening of a grain-drill feed-box can be simply and accurately regulated. A threaded sleeve is employed, through which the shaft carrying the feed mechanism passes. The sleeve, when turned, shifts the shaft and the feed mechanism across the discharge-opening of the feed-box, thereby regulating the amount of seed fed with the utmost nicety.

Tools and Special Implements.

DEVICE FOR CLEANING WATCH-MOVEMENTS.—JOHN J. HIGGINS, Duquoin, Ill. This simple device is especially adapted for cleaning any watch or clock movement. The principle of operation consists in imparting a rapid alternating motion to the device in the presence of a cleaning compound or liquid, and for holding the parts to be cleaned in such position that the compound will reach all faces or surfaces.

Vehicles and Their Accessories.

WAGON - BRAKE.—THOMAS CALLISTER, Queens, Borough of Queens, New York city. The inventor has found by practical experience that brakes having their main parts supported entirely on the axle are objectionable, because by their shaking in the joints with every rise and drop they rattle and get out of order. The present invention provides an improved form of brake which will be effective for securely holding the wheels of a heavy wagon when descending a hill, and in which the rear or actuating lever and all joints, except one, are supported by the wagon body, and are relieved through the medium of springs of much of the jarring and shaking.

Railway Appliances.

SEAT.—FREDERICK H. JANSON, Brooklyn, New York city. Combined with a base are a reversible seat, a back, and a member on which the back is carried. By means of a pivotal and slidable connection the member is mounted on the base. The member, moreover, has a part movable into engagement with a part of the base to hold the member. Between the member and the seat is a connection whereby the seat is reversed. The construction is such that the seat and back can be easily mounted reversibly.

COUPLER.—CHARLES A. MCKERAHAN, Wilmerding, Pa. The coupler is of the Janney type, and has for its object to provide novel features of construction which render the parts very reliable in service, adapt them for automatic connection, and afford means for their safe detachment from either of two cars coupled together. Owing to the simplicity of the improved car-coupling and its peculiar construction, great strength is obtained with a minimum of weight.

Miscellaneous Inventions.

HATCH-COVER.—WINFIELD W. DAWLEY, Geneva, Ohio. Mr. Dawley has devised a hatch-cover, which, when battened down, will hermetically seal the hatch, and which, though it be of large size and great weight can be lifted readily from the hatch-coaming by means of a cable passing over a post and connected with a windlass.

APPARATUS FOR AERATING WORT AND IMPROVING THE QUALITY OF YEAST.—MAX WALLERSTEIN and HANS H. FREUND, Manhattan, New York city. By the use of this apparatus wort is aerated with filtered air in any desired quantity during fermentation with the result that yeast of healthy growth and great purity is obtained. As the quantity of air introduced is very small, it is possible to aerate the wort even when the yeast is in vigorous fermentation—an end which, although of great importance, has never been hitherto attained, since the wort would overflow.

NECKTIE - FASTENER.—ERNEST KIENE, Spokane, Wash. The fastener is composed of a strip of spring metal constituting a neck-band. One end of the strip is turned for a short distance within the band. In the upper edge of the turned portion a notch for engagement by the shank of a collar-button is provided. The device holds the tie properly in position and permits its ready removal.

METHOD OF MAKING HYDROGEN DIOXIDE.—PAUL L. HULIN, Clavaux, par Rieux-la-Pelle, Isère, France. The process enables oxygenated water to be made upon a commercial scale by the direct employment of sodium dioxide. The sodium dioxide is decomposed by hydrofluoric acid in the presence of

water to form hydrogen dioxide, and the sodium is converted into an insoluble precipitate of cryolite by aluminium fluoride.

SCREEN-DOOR FASTENER.—WILLIAM B. COCHRANE, Pocatello, Idaho. The purpose of the invention is to provide a door-fastener for holding a spring-door completely closed, and yet permitting the door to be pushed open without using the hands. The simple device which the inventor has patented to attain his purpose is of such construction that the door can be secured in closed position at any time desired.

STOPPER FOR BOTTLES.—JACOB A. MOLLER, Jr., Brooklyn, New York city. The stopper is of the ball or rotary type and is especially adapted for sauce and cologne bottles. The stopper can be made to close the mouth of the bottle tightly, and can be quickly brought into position to discharge the liquid contents of the bottle either from a point at the central portion of the mouth or at any point at either side of the center.

DOUCHE-BENCH.—THOMAS F. MCCULLOUGH, Memphis, Tenn. The bench has a frame; a leaf; a leg intermediately pivoted on the frame and arranged when in operative position to engage one end with the leaf to hold it raised; and a hinged extension on the end of the leg. The bench can be folded and stored away in a small space.

DEVICE FOR SMOKELESSLY HEATING INSECT-POWDER.—JOHN C. SEARLE, Hilea Kau, Hawaii. The device can be applied to a lamp-chimney, gas-globe, or the like, and is adapted to contain a powder, the fumes of which have a destructive effect upon mosquitoes. The device is applied to the lamp so that the powder is roasted and not consumed by the fire, thereby obtaining fumes noxious to insects and yet free from smoke.

BUSTLE AND HIP EXTENSION.—MARY E. WETHERELL, Boston, Mass. The subject of the invention is a new and improved bustle and hip extension arranged to give the desired hang and fulness to the skirt. The bustle, hip portions, and hip extension portions are all fastened together at their middle and extend one outside of the other.

GRAIN-ELEVATOR.—PAUL BÉDARRIDES, Rue de la Verrerie 4, Paris, France. The grain is elevated by means of a vacuum obtained by an ejector of steam in a separating chamber, where the blast of air which carries forward the product is separated. The novel application of an ejector of steam to produce the vacuum in the suction-pipe offers great advantages over the pumping apparatus which might be used for the same purpose; for a uniform suction is produced, which can be easily regulated at will.

COMBINED HEATER, COOLER, AND STORAGE BASKET.—NONNA FERNER BONIFACE, P. O. Box 95, Madison Square Branch, Manhattan, New York city. Mrs. Ferner Boniface is the inventor of a combined heater, cooler, and storage basket for containing filled and empty nursing bottles and other articles and food products, as well as fuel. The arrangement permits the convenient heating or cooling of the milk in the nursing bottle. The entire basket is portable and is of special service during a railway journey, or during a stay at a hotel. A supply of milk or food can be kept on hand, hot or cold, for immediate use by invalids or infants. That the basket is also serviceable for outing parties goes without saying.

PROCESS OF REFINING OILS.—FRITZ LINDE, Dortmund, Germany. This process of treating rape-seed oil and other sweet oil consists in the following steps: adding 10 to 15 per cent of rich milk to the oil; heating the mixture and continuing the application of heat until a thick covering or layer is formed; and removing the layer or covering. The layer prevents the rising and boiling over of the liquid. The oil is purified and its odor and taste improved.

GARMENT-HANGER.—MARTIN H. BUSHNELL and BENJAMIN F. STARSKY, Hazelhurst, Pa. The inventors have devised a novel, simple and cheap garment hanger, which can be used to hang up men's or women's clothes. When not in use the hanger can be quickly reduced in length to permit its convenient storage in a small case.

FISH-TRAP.—EPHRAIM W. LIVERMORE, New Whatcom, Wash. The fish-trap is of the class designed to be floated in the water and anchored in proper place. In construction, the trap comprises a lead, a heart and a crib, with certain peculiar features of construction producing a trap efficient in every respect.

ANIMAL-POKE.—CLAYTON W. FORD, Findlay, Ohio. This simple and effective device prevents cows from butting or "jamming." The invention consists of the peculiar combination of a face-plate having a hooked upper end; a curved head-plate pivoted directly to the face-plate near its upper end; a spur or point forming a prolongation of the curved head plate; and a spring for forcing the curved head-plate away from the face-plate by butting. Pressure against the curved plate overcomes the force of the spring and causes the spur to be buried in the tender part of the neck of the cow.

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. 2076.—For manufacturers of paper boxes for boxing screws, tacks, etc.

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

Inquiry No. 2077.—For dealers in glass show cases.

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

Inquiry No. 2078.—For makers of machinists' tools.

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

Inquiry No. 2079.—For dealers in fireproof wood for building purposes.

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

Inquiry No. 2080.—For manufacturers of machines for mixing baking powders.

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

Inquiry No. 2081.—For dealers in gas for balloons.

Sheet metal stamping and light manufacturing. For-skeell Motor Co., Anderson, Ind.

Inquiry No. 2082.—For parties engaged in constructing fire escapes.

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

Inquiry No. 2083.—For makers of sand pumps and fixtures for the same.

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

Inquiry No. 2084.—For makers of conjuring apparatus.

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

Inquiry No. 2085.—For makers of air compressors.

Ten days' trial given on Daus' Tip Top Duplicator. Felix Daus Duplicator Co., 5 Hanover St., N. Y. city.

Inquiry No. 2086.—For stone crushers for crushing sandstone into sand.

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

Inquiry No. 2087.—For manufacturers of novelties for the mail order business.

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

Inquiry No. 2088.—For makers of small locomotives of 2 or 3 horse power.

PATENTS FOR SALE.—Improved fishing nets for steam or sailing vessels; deep or shallow waters. M. A., Box 773, New York.

Inquiry No. 2089.—For dealers in cotton seed oil machinery.

Automobiles built to drawings and special work done promptly. The Garvin Machine Co., 149 Varick, cor. Spring Streets, New York.

Inquiry No. 2090.—For makers of mica machinery.

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

Inquiry No. 2091.—For the manufacturers of the "Elgin Alligator Wrench."

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

Inquiry No. 2092.—For machines to cut and finish slats for Venetian blinds of about 18 inches wide.

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. 2093.—For dealers in the Phillips Morse Automatic Telegraph.

NOVELTIES.—Dealers and inventors of novelties should write with full particulars to J. W. Rowe & Co.'s Successors, 15 Aldermanbury, London, E.C., England.

Inquiry No. 2094.—For a firm or corporation with salable article used around steam plants, to give full control of same to a corporation for the New England States.

PATENT NO. 830,913 FOR SALE.—Incandescent electric light support. Light movable to any spot wanted. Simple and practical. Address Inventor, Box 48, Springfield, Vt.

Inquiry No. 2095.—For parties making an electric welding machine for welding bands of steel 1/2 to 1 1/2 in. in width.

WANTED.—A first-class engineer to take charge of a Corliss compound condensing engine. Recommendation required. Apply Royal Rag and Yarn Manufacturing Company, Charleston, S. C.

Inquiry No. 2096.—For makers of castings for steam engines.

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. 2097.—For dealers in Java and artificial indigo.

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. 2098.—For a machine for printing on calico.

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 Chappin, London, England.

Inquiry No. 2099.—For dealers in weaving and knitting machines.

FOR SALE.—U. S. Patent No. 686,521. Device for oiling or tarring overhead cables. Parties familiar with this class of work will at once recognize the merits of this patent. Only device out. Large profits to investor. For particulars, address C. Larsen, Crockett, Calif.

Inquiry No. 2100.—For dealers in manual training tools.

WANTED.—Reliable, sober and competent foreman for machine shop department. Thorough mechanic, one who understands up-to-date methods of producing work economically and handling men. State experience, give references and salary. Great Western Mfg. Co., Leavenworth, Kansas.

Inquiry No. 2101.—For soap molds, etc., for making soap.

WANTED.—One copy of Hendrick's Architectural Engineering and Mechanical Directory of the U. S. Estate of Henry Miller, 1 Barclay Street, New York.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending February 11, 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 bracket, Advertising device, Air brake system, Ammunition case, Angling apparatus, Animal trap, Announcer, etc.

(Continued on page 129)