RECENTLY PATENTED INVENTIONS

Agricultural Implements.

CULTIVATOR .- GEORGE W. HENRY, Oil City, 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. $\bf A$ rod is extended from rod a frame has swinging connection. A protecting hood is connected with the frame. Dur ing 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 GRAINbe 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-MOVE-MENTS .- 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

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 | elevated by means of a vacuum obtained by an descending a hill, and in which the rear or actuating lever and all joints, except one, are where the blast of air which carries forward 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 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, Wilmatic connection, and afford means for their without saying. safe detachment from either of two cars coupled together. Owing to the simplicity of the improved car-coupling and its peculiar Linde, Dortmund, Germany. This process of construction, great strength is obtained with treating rape-seed oil and other sweet oil confield, Vt. 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 hatch-cover, which, when batched the hatch, and which, though taste improved.

It he of large size and great weight can be GARMENT-HANGER.—MARTIN H. BUSHlifted readily from the hatch-coaming by means of a cable passing over a post and connected Pa. The inventors have devised a novel, simple with a windlass.

MAX WALLERSTEIN and HANS H. FREUND, Man- in length to permit its convenient storage in hattan, New York city. By the use of this ap- a small case. paratus wort is aerated with filtered air in FISH-TRAP.—EPHRAIM W. LIVERMORE, New any desired quantity during fermentation with Whatcom, Wash. The fish-trap is of the class the result that yeast of healthy growth and designed to be floated in the water and nurity is ahtained As th uantity of air introduced is very small, it is possible the trap comprises a lead, a heart and a crib, to aerate the wort even when the yeast is in with certain peculiar features of construction vigorous fermentation—an end which, although producing a trap efficient in every respect. 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 neckband. One end of the strip is turned for ${\bf a}$ short distance within the band. In the upper | face-plate near its upper end; a spur or point For particulars, address C. Larsén, Crockett, Calif. 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 DI-OXID .- PAUL L. HULIN, Clavaux, par Rioupêroux, Isère, France. The process enables exygenated water to be made upon a com-

water to form hydrogen dioxid, and the sodium is converted into an insoluble precipitate of

permitting the door to be pushed open without the shaft of the traction-wheel; and with the 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. MOL-LER, 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 DRILLS.—ROBERT H. SCHLACHTER, Clay Cen-of the bottle tightly, and can be quickly brought ter, Neb. The invention provides a means into position to discharge the liquid contents of the bottle tightly, and can be quickly brought whereby the amount of seed delivered from the of the bottle either from a point at the cendischarge-opening of a grain-drill feed-box can tral portion of the mouth or at any point at either side of the center.

> DOUCHE - BENCH. — THOMAS F. McCul-LOUGH, 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 mosquitos. The device is applied to the lamp so that the powder is roasted and not consumed by sors 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 ejector of steam in a separating chamber. 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, STORAGE BASKET .- NONNA FERNER BONI-FACE, P. O. Box 95, Madison Square Branch, Manhattan, New York city. Mrs. Ferner Boniface is the inventor of a combined heater, the base to hold the member. Between the 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 merding, Pa. The coupler is of the Janney stay at a hotel. A supply of milk or food can type, and has for its object to provide novel be kept on hand, hot or cold, for immediate features of construction which render the parts use by invalids or infants. That the basket very reliable in service, adapt them for auto- is also serviceable for outing parties goes

PROCESS OF REFINING OILS.—FRITZ sists 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

NELL and BENJAMIN F. STARSKY, Hazelhurst, and cheap garment hanger, which can be used APPARATUS FOR AERATING WORT AND to hang up men's or women's clothes. When IMPROVING THE QUALITY OF YEAST.— not in use the hanger can be quickly reduced

> anchored in proper place. In construction.

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; curved head-plate pivoted directly to the 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

WANTED.—Reliable, Seed and Thorough mechanic, for machine shop department. Thorough mechanic, one who understands up-to-date metheds of producing to be buried in the tender part of the neck of

Note.-Copies of any of these patents will be mercial scale by the direct employment of furnished by Munn & Co. for ten cents each. sodium dioxid. The sodium dioxide is decomplease state the name of the patentee, title of posed by hydrofluoric acid in the presence of the invention, and date of this paper.

Business and Personal Wants. INDEX OF INVENTIONS

cryolite by aluminium fluorid.

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 MUNN & CO.

> Marine Iron Works. Chicago. Catalogue free. Inquiry No. 2076.—For manufacturers of paper oxes for boxing screws, tacks etc.

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

Inquiry No. 2077.-For dealers in glass show

U.S." Metal Polish. Indianapolis. Samples free Inquiry No. 2078.-For makers of machinists

WATER WHEELS. Alcott & Co., Mt. Holly, N. J. Inquiry No. 2079.—For dealers infireproof water 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 Mchy. 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-

skell 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 compres-

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 crush

ing 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

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

Inquiry No. 2090.-For makers of mica machin-Manufacturers of patent articles, dies, stamping

tools, light machinery. Quadriga Manufacturing Com-pany, 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.

Inquiry No. 2092.—For machines to cut and finish slats for Venetian blinds of about 78 inches wide. The celebrated "Hornsby-Akroyd" Patent Safety Oil

A. Wilson Machine Company, Rochester, N. Y.

chine Company. Foot of East 138th Street, New York.

Inquiry No. 2093.—For dealers in the Phillips Morse Automatic Telegraph. ${\bf Novelties.-Dealers} \quad {\bf and} \quad {\bf inventors} \quad {\bf of} \quad {\bf novelties}$ 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

PATENT No. 680,913 FOR SALE.—Incandescent electric light support. Light movable to any spot wanted. Simple and practical. Address Inventor, Box 48, Spring-

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

WANTED.-A first-class engineer to take charge of a Corliss compound condensing engine. tion required. Apply Royal Bag and Yarn Manufactur-

ing Company, Charleston, S. C. Inquiry No. 2096.—For makers of castings for team engines. Wanted-Revolutionary Documents, Autograph Let-

ters, 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 artiff 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

erned high-speed engine, fully demonstrated, authentic tests. All machine works standarized 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. 2099.—For dealers in weaving and knitting machines. FOR SALE.-U. S. Patent No. 686.521. Device for oil-

ing or tarring overhead cables. Parties familiar with this class of work will at once recognize the merits of

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

the force of the spring and causes the spur 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 mak

WANTED. - One copy of Hendrick's Architectural Engineering and Mechanical Directory of the U. 8. Estate of Henry Miller, 1 Barclay Street, New York.

For which Letters Saterit of the United States w e Issued for the Week Ending

February 11, 1902,

AND EACH BEARING THAT DATE.

[See note at end of list about c. pies of these patents.

	
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