

**RECENTLY PATENTED INVENTIONS.**

**Of Interest to Farmers.**

**MACHINE FOR DIGGING BEETS.**—A. H. KRAMER, Monte Vista, Col. The purpose in this case is to provide a machine embodying devices for automatically lifting beets from the ground in a manner which will not materially injure them, a conveyer which receives the uprooted beets, and an elevator device which receives the beets from the conveyer and delivers them to any desired receptacle. It is a division of the application for a device for digging and topping beets for which Letters Patent were recently granted to Mr. Kramer.

**FERTILIZER-DISTRIBUTER.**—J. Q. GOURDIN, Pineville, S. C. By this invention Mr. Gourdin seeks especially to provide a distributor for use with cotton-seed, and in the use of which the seed, which is largely used as a fertilizer in southern sections, may be crushed. Corrugated rollers operate to crush the seeds, and also operate as a force-feed delivering material positively from the machine as it proceeds when the different parts are in feeding position.

**CORN CUTTER AND SHOCKER.**—E. BERRY and H. S. BERRY, Hebron, Ohio. This machine is of light draft, easily operated and not liable to get out of order. By cutting only one row of corn and elevating the corn over the bull-wheel the side draft is minimized. The shock being already tied when the cradle is tilted, it will remain in an upright position, and the waste of broken blades from frequent handling is avoided. The provision of an extension on the track permits entire disengagement of a shock from the machine before it is up-ended, thus allowing a minimum height of elevator.

**HARROW.**—W. H. BOND, Newcastle, Ind. One purpose of this invention is the provision of a double revolving harrow which also acts as a leveler so constructed that the ground over which it passes is harrowed both ways at one operation, and further, to provide the harrow with a spring-controlled colter at the rear.

**CLASP.**—I. STEINBERG, Nashville, Tenn. The construction in this instance provides a secure fastening impossible to unloose except by depressing a spring, and since the spring is inclosed within the casing it is impossible to depress the spring except by the use of the button. Properly manipulated, the clasp is easily unfastened. It is especially applicable for securing jewelry—such as bracelets, necklaces, girdles, etc.—since the liability of loss by accidental unfastening is reduced to a minimum.

**Of General Interest.**

**FRANGIBLE CAP FOR THE CLOSURE OF BOTTLES.**—S. M. STEVENS, Tampa, Fla. The design of this inventor is to prevent the filling of bottles a second time with liquor that may be inferior in quality. He provides a frangible cap as a cover for the top of a filled bottle, which adapts the cap for very effective service as a fixed cover for the cork of the bottle and which must be broken to afford access to the latter for its removal, thus preventing the re-filling of the bottle as an original liquid-package.

**SELF-ADJUSTING BELT FOR SUPPORTING CATAMENIAL BANDAGES.**—EUGENIE SCHICK, Fly Mountain, N. Y. This supporting-belt is adapted to conform with motions and different positions of the person wearing it, thus conducing to comfort and avoiding binding, constriction, or chafing while in use. This supporting-belt for a sanitary bandage is formed entirely of fibrous fabric, which is devoid of buckles or connections that are uncomfortable, is washable, very light, and to or from which an ordinary napkin may be readily attached or detached as may be required.

**DEVICE FOR DRESSING STONE.**—H. HUGHES and R. HUGHES, Mount Vernon, N. Y. In dressing the surfaces of stones for building and other purposes to form channels or grooves therein it has been usual in many instances to employ a dressing-tool of rectangular form provided at opposite edges of one of its faces with corrugations or ribs, the edges being beveled to form teeth or cutting portions, the latter provided with four bolt-holes and secured to a holder therefor in the dressing machine by means of bolts inserted in said holes and clamping devices. It is possible to use but a limited proportion of this character of tool, and the principal object is to overcome the above disadvantage.

**PROCESS OF TREATING METALS.**—H. H. GOODESELL, Indiana Harbor, Ind. The present invention relates to methods for treating metals, and more particularly to a process for treating sheet iron and steel, so as to convert thereupon a surface adapted to resist the tendency to rust and also adapted to improve the appearance and working qualities of the metallic sheets. In this process the inventor treats metallic sheets somewhat differently than in his former patent, one principal difference being the beginning work upon the sheet at comparatively low temperature and finishing at temperature comparatively high.

**ADVERTISING DEVICE.**—P. COUFETTE, Cologne, Germany. Though applicable to different purposes, this invention has reference more especially to devices employed in cars and similar vehicles for successively indicating the several stations lying along the route traversed by the car. In the upper part of a casing a roller is

mounted, suspended from which at intervals are a plurality of advertising-sheets, which are caused to be successively wound upon the roller and which also successively drop to vertical position. The inventor employs special means to effect intermittent movements of the roller, as well as special stop devices therefor.

**BOTTLE-CLOSURE.**—A. CELENZA and D. CELENZA, New York, N. Y. This invention pertains particularly to improvements in devices for drawing corks from bottles, the object being to provide a cork-drawing device designed to be used in lieu of a corkscrew and connected directly to the cork and by means of which the cork may be readily drawn out without injury or breaking of the cork, thus making it possible to use the cork several times.

**LOG-DERRICK.**—H. COMBS, Upson, Wis. The invention is in the nature of an improvement in log-derricks, sometimes called "log-jammers," the same being in the form of a portable derrick used in woods for handling and loading heavy logs. The derrick folds down flat and may be dragged from place to place like a sled and be quickly erected for use at any point and substantially braced to stand the lifting strain.

**CHAIN SLING AND TRIP.**—W. E. GAGE, Hohen Solms, La. The intention of this inventor is to provide a device for handling bulky and heavy masses of cane and other like material in its transfer from carts to cars or from barges to carts or cars or for storing purposes. It permits the load to be drawn closely together and holds it firmly and yet is easily released when desired.

**REFRIGERATING MEANS.**—J. BECK, Ashland, Wis. The principal object contemplated in this case is the production of an economic means of refrigeration in which ice is employed and which are adapted for application to cooling of buildings, cars, butchers' refrigerators, and those of private houses, and of any other kind in which the degree of cold produced by melting ice is sufficient for the purposes. Economy of operation is secured by maintaining circulation of air beneath instead of on all sides of the ice, as is ordinarily the custom.

**OR-LOCK.**—A. ANDERSON, Mason, Wis. One purpose of the improvement is to provide a simple and effective or-lock adapted for permanent attachment to an oar and yet have removable connection with the gunwale, the or-lock being so constructed as to enable the oarsman to have full control over the oar and to operate it with less fatigue than ordinary.

**FOLDING PHONOGRAPHIC HORN.**—M. L. MUNSON, New York, N. Y. The invention relates to horns such as are attached to phonographs or similar instruments for intensifying sound and throwing it in a desired direction. The object is to produce a horn of simple construction which may be folded so as to occupy a small space, enabling it to be conveniently carried or packed for transportation.

**HORSE-COLLAR FASTENER.**—J. C. CLAUSEN, Wausa, Neb. The invention has reference to improvements in horse-collar fasteners of that class designed to lock the two sides of a collar and to permit the ready separation thereof to facilitate the placing and removal of the collar when desired, and has for its object to provide a simple, cheap and efficient device.

**SHOE-LACE.**—W. H. CLING, Charleston, S. C. The invention comprises a flexible lace of ordinary construction, and the flexible wire which is attached thereto, the ends of the wire being twisted tightly about the lace proper and the body of the wire being extended along such lace between such points of attachment, and the ends of the lace proper being left free.

**FLASH-LIGHT DEVICE.**—T. AZUMA, Kanda, Tokyo, Japan. The invention pertains to improvements in flash-light devices for use in photography, the object being to provide a flash-light lamp or device that will be simple in construction and so arranged that the flash will be directed upwardly and laterally in a thin sheet.

**CAMERA ATTACHMENT.**—M. I. LORVEA, Spokane, Wash. Mr. Loryea's object is to provide a camera with a convenient means by which plates exposed in the camera may be numbered or otherwise marked for identification. He attains this end by a peculiar arrangement of transparent tape or tapes having numbers thereon, which numbers are photographed onto the plates at the same time that the plates are exposed before the object to be photographed. By partly shifting a "shutter-tape" a number may be partly covered, and in this way additional combinations of numbers may be made so that by providing two tapes with two sets of numbers thereon a great number of combinations may be made.

**INSTRUMENT FOR REMOVING RIBS.**—A. W. FRENZEN and J. SCHOEMAKER, 47 Rapenburg, Leiden, Netherlands. The first available piece of the rib to be cut through is laid bare, so that at this place the pleura is removed from the rib. The instrument is held in such a way that it is turned with its hook toward the pleura, the operator then pushing the hook on the piece of rib laid bare and then pressing the instrument along the rib, effecting it by jerks, and so loosening the pleura more and more from the rib until advancing the instrument to the place at which separation of rib is to take place. By pressing the instrument's two shanks together a knife passes over the same and cutting through the rib is effected.

**Household Utilities.**

**WARDROBE.**—P. DOWD, New York, N. Y. One purpose of the invention is to provide a wardrobe especially adapted for use in schools, assembly halls and rooms, or rooms adapted for large gatherings, but which can be used with equally good results in private dwellings, the wardrobe being so constructed that it will accommodate a maximum quantity of clothing and so that each individual can have a separate division.

**Machines and Mechanical Devices.**

**BOOT AND SHOE CLEANING AND POLISHING MACHINE.**—B. F. LLOYD, Cherry Gardens, South Australia. A reciprocating frame carries brushes arranged, preferably, in three pairs of special form and attachment and is connected to a crank disk or handle, whereby it is reciprocated. The first pair of brushes removes the dirt, the second applies the blacking, the third polishes the boots. The movable slide is fitted with lasts of spring-steel wire, upon which the boots are fitted, and so passed between the several pairs of brushes. Blacking-supply is preferably mounted upon the reciprocating frame.

**AXLE-BEARING.**—J. K. GOURDIN, Pineville, S. C.—The spindle-skein receives the wear of the wheel and by its end flange receives the end thrust of the wheel-hub, relieving the spindle and the shoulder at the inner end thereof of all wear. The hub-skein having the openings for the lubricant aids in lubricating the bearing and by turning with the wheel takes up all wear upon the hub-bearing, so that when skeins are worn they may be readily removed and a new bearing provided by supplying new skeins. A washer with a lug holds the skein to the boxing so that the hub-skein with the wheel.

**MOLDING-MACHINE.**—P. G. LEMING, F. EIKLOR, and C. W. GRANT, Urbana, Ill. The machine is especially adapted for the manufacture of hollow cement building-blocks, although it is capable of general use for molding plastic materials. The invention comprises a hand-operated machine provided with an automatic core-extractor and means whereby the molded article can be readily transferred from molding position and released from the mold in a rapid and efficient manner.

**CANCELING-MACHINE.**—W. G. MAYNARD, Rondout, N. Y. This machine cancels stamps affixed to mail matter. Letters are placed in the delivery-holder with stamps all turned in one direction and situated at the lower edges. Upon rotating the main driving-gear, feed-wheels successively advance the letters beyond the guide-rolls until seized by feed-rolls. These move them along against a gate, which is then withdrawn and the controlling-roll being pressed out causes the mechanism to bring up the impression-roll as each stamp passes over it, where it receives imprint of die, and places the name of canceling-office and date upon the envelop. The second pair of feed-rolls brings letters under influence of revoluble arms, which introduces them into the receiving-holder, from which they are removed.

**FEEDER.**—W. G. MAYNARD, Rondout, N. Y. In the present patent the invention has reference to feeders, and more particularly to those adapted for use in connection with canceling-machines. Its principal objects are the provision of means for securing a regular and unitary delivery of the objects operated upon.

**SMELTING AND REFINING PROCESS.**—E. C. POLLARD, Seattle, Wash. The prime object of the invention is to bring about not only the smelting of the ores, but the refining or conversion of the matte to produce the finished metallic product by a continuous operation, in which all of the steps are independent and performed in immediate succession, thus making a single concrete process do the work heretofore generally performed by separate processes, and thereby saving in numerous respects.

**SMELTING AND REFINING APPARATUS.**—E. C. POLLARD, Seattle, Wash. This apparatus keeps up a continuous smelting and refining operation. Matte and slag produced in the cupola-furnace flows through the passage therefrom into the settler. From this settler lighter and less valuable-portion of slag pass off to the dump, while matte and more valuable portions of slag pass by gravity into the converter. Here matte is subjected to a Bessemerizing blast, and slag forced back into the furnace bowl, thus bathing matte and other substances therein, and returning to the settler. The refined metal passes from the base of converter out into the receiver and drawn therefrom as it accumulates.

**ODOMETER.**—B. VOLKMAR, New York, N. Y. A series of registering-disks and a series of recording-disks are mounted upon the same carrying-shafts, and recording-disks are so arranged that they show the aggregate amount of miles traveled during a number of trips—for example, the registering-disks are adapted to show miles made during each trip, and the arrangement of the latter disks is such that they may be quickly and conveniently turned back to zero at any time by turning the carrying-shaft and without changing position of the recording-disks.

**Prime Movers and Their Accessories.**

**ROTARY ENGINE.**—H. BURLICH, New York, N. Y. In the present invention the object of the improvement is the provision of a

new rotary engine arranged to permit convenient and quick reversing whenever desired and to allow of cutting off the motive agent at any desired point to utilize the motive agent expansively and to the fullest advantage.

**AIR-ADMISSION DEVICE FOR FIRE-BOXES.**—C. B. CLARK, New York, N. Y. The device is adapted for any style or form of furnace. It heats the air going under the hood and through the flue to allow a larger amount of hot air than cold in the furnace, and distributes the air in the furnace in larger quantities so as to form a more complete combustion of gases and make a more intense heat. The fire in front of the flue consumes the smoke before it passes out of the furnace, so that it does not receive as heavy a draft. Thus a double fuel is provided as both the gases and smoke are burned.

**Pertaining to Vehicles.**

**PROTECTING DEVICE FOR PNEUMATIC TIRES.**—E. LAPISSE, Elbeuf, 5 Rue de la Barrière, Seine-Inférieure, France. The object in this case is to so construct the device that it shall comprise on its edges, provided for that purpose with flat flanges, hooking devices of peculiar shape designed to secure the same to the cover of the pneumatic tire, while avoiding the wear and tear to which the protecting devices now in use are subjected on account of the continuous strain to which the usual hooking and fixing devices give rise.

**BRAKE FOR BICYCLES.**—G. A. LOVE, Cokato, Minn. The axle of the rear wheel is provided with a rotatable member for operating an expansible device to frictionally engage the inner surface of the hub of the wheel by which to accomplish the forward movement of the latter in ordinary operation of the machine, said device being provided with means for automatically disengaging the same from the hub on temporarily checking the driving power of the wheel for coasting. In connection with the friction device is employed means in effecting certain operations of the brake, and in combination with these means, are means to permit machine to be driven forwardly.

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.**

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