

## RECENTLY PATENTED INVENTIONS.

## Agricultural Implements.

**DEVICE FOR LOADING CORN-SHOCKS.**—W. A. TEA, Bellevue, Ohio. This device, which is wheel-supported, is adapted for attachment to the rear of an ordinary farm wagon for the purpose of automatically carrying the shocks from the ground up an inclined track to the wagon bed and delivering them therein, thus facilitating the gathering of shocks adapted to be transported to husking and shredding machines.

**COTTON-CHOPPER.**—F. M. and L. E. SHARP, Partridge, Okla. Ter. The machine belongs to that class of machines which are adapted to be drawn over a drilled row of cotton plants for chopping out portions of the crop, thus leaving the plants in bunches or hills. This invention comprises a new construction whereby the cutter is adapted to rotate when in action and may be set at different depths or thrown up entirely out of action.

## Apparatus for Special Purposes.

**GAS-WASHER.**—PAUL RIECKE, Dessau, Germany. The gas washer belongs to that class known as "standard" washers, in which several wheels or disks are arranged on a common shaft revolving in a cylindrical casing, the lower part of which contains the washing liquid. The object of this invention is to get a maximum amount of washing surface in a minimum amount of room while leaving a perfectly free passage for the gas and, at the same time, to clean the washing surfaces while the apparatus is working.

**WEIGHT AND PRESSURE RECORDING APPARATUS.**—E. MCGARVEY, Bellefonte, Pa. It is a recognized desire by scale manufacturers and users to have an attachment by which the weight as indicated on the scale beam may be quickly and accurately recorded, thus avoiding mistakes liable to be made by the weighman and supplying a correct record for verifying his weights in case of dispute. Such an apparatus is provided in this invention.

**TAPPING-JACKET.**—M. BARRETT, Grand Forks, Canada. The jacket is used in connection with the tap-hole in metallurgical furnaces. The object of the invention is to circulate cold water or some other cooling fluid around the tap-hole for the purpose of preventing the same from becoming unduly heated.

## Electrical Apparatus.

**TELEPHONE-CALL FOR PARTY-LINES.**—W. A. WILLIAMS, O. L. INGRAM, and J. B. WILSON, Walla Walla, Wash. This system belongs more particularly to that class wherein several stations are located on the same circuit. The operator at the central station may call any desired station on a party line by depressing the usual form of push button a proper number of times. This signals the station required without sounding a call at any other station on the line. The duration of each depression of a push-button as it is ordinarily given at central is sufficient to operate this machine.

## Engineering Improvements.

**TRAIN AND SIGNALING APPARATUS.**—W. A. and B. S. H. HARRIS, Greenville, S. C. Two patents have been granted to these inventors for improvements on a previously patented invention in train-signalling apparatus, whereby signals were transmitted to the engineer through a slight reduction of pressure in the train pipe without the necessity of using a separate signal pipe. In the present inventions the system is simplified and made more certain and efficient. Means operated by the exhaust are provided for intercepting the air passing through the signal valve to the whistle, so as to prevent the whistle from sounding by any operation of the engineer's brake valve in the application of the brakes.

## Hardware.

**WRENCH.**—W. M. TREGLOWN, Sr., New York, N. Y. The improvement relates to pipe wrenches, and its object is to provide a wrench arranged to permit of quick and convenient adjustment for gripping large and small articles and turning the same in either direction.

**CUTTER.**—F. L. LEVY, Duluth, Minn. The cutter is particularly adapted for use by dress-makers for cutting cloth in strips to form ruffles and the like. It consists of a transversely extending bar in which are arranged, side by side, a number of pins carrying rotary cutters at their lower ends.

**CHEESE-CUTTER.**—W. J. SPILLMAN, Pullman, Wash. The invention relates to a device for carrying cheese and for facilitating the work of slicing it in regularly formed pieces. The device is particularly adapted for use by retail merchants.

## Machines and Mechanical Devices.

**PAPER-STOP.**—H. F. DUNBAR, Turners Falls, Mass. The device is arranged for use in connection with paper or other material while winding on a drum, the object being to produce a simple stop to permit the paper from sliding endwise off the drum, or from sliding one layer upon another. The stop

may be readily adjusted to the increasing size of the paper roll while the winding drum is revolving.

**FIRE-ESCAPE.**—J. and P. J. SETBACKEN, Cynthiana, Ind. This fire escape belongs to that class in which a line or rope is provided for the descent of a person. The rope is used in connection with certain governing mechanism for causing it to be paid out at a uniform rate.

**BURNER.**—H. C. ZENKE, New York, N. Y. In burners for limotype melting pots, as heretofore constructed, reliance is had on pressure of the gas to draw sufficient air into the mixing chamber to form the blue flame at the tip of the burner. But as soon as the pot is heated to the desired degree, and the gas partly shut off, very little, if any air, is drawn into the mixing chamber and a poor flame at the tip is the result. To avoid this difficulty, Mr. Zenke employs an air-inlet for the mixing chamber and an independent inlet for a combustion chamber under the pot to insure a perfect burning of the gas and consequent proper heating of the pot at all times.

**SKYLIGHT-OPENER.**—G. BICKELHAUPT, New York, N. Y. This skylight-opener is easily manipulated and may be opened a desired distance for ventilating or other purposes, and after this adjustment is made, means are provided for locking the skylight in place.

**FRICITION GEAR.**—E. P. DAWSON, Butte, Mont. The friction gear is peculiarly constructed for variable speed and is adapted particularly for connection with sewing machines. Two cones are employed with their tapering faces parallel. A shiftable transmitting wheel connects the two cones, transmitting the power from one cone to the other. The speed can be regulated by shifting the transmitting wheel along the surface of the driving cone away from or toward its apex.

## Medical Apparatus.

**RECEPTACLE FOR ETHYL CHLORIDE.**—L. SCHWARTZ, New York, N. Y. The invention relates to improvements in receptacles for ethyl chloride and other fluids, such for example, as in devices for use by dentists or surgeons for producing local anesthesia. The receptacle is provided with an improved form of spray nozzle adapted to so tightly close the receptacle as to prevent the escape of the highly volatile fluid.

## Railway Improvements.

**CAR-SEAT.**—L. JANKSON, Brooklyn, N. Y. The car seat is of that class in which two seats proper are mounted on a common support and connected by devices for causing them to turn in unison. The seats are held to turn on vertical axes, but are not allowed other movements. A latch is pivotally mounted on top of the base and is arranged to normally engage and hold the seats from turning.

**COAL-CHUTE.**—W. H. SIMMS, Grand Island, Neb. The coal-chute is designed to be used in connection with bottom-dump coal cars. The chutes are built in series along a high trestle work, so that the coal cars on the tracks along the top of the trestle may discharge their coal directly into an engine or car standing on tracks at the bottom of the chute on either side thereof.

## Vehicles and Their Accessories.

**BRAKE-BLOCK.**—J. S. OWGERS, Central City, Col. The invention is designed to furnish an improved brake-block for buggies, wagons and all wheeled vehicles which shall provide a stiff and rigid connection for the rubber to the operating bar that carries it, so that the brake-shoe will not become loose and tilt on its point of support, and yet provide a construction which will permit the position of the brake-shoe and rubber to be adjusted to the plane of the wheel, whose dish is sometimes changed in adjusting new tires to the wheel.

**PEDAL-BALANCE.**—F. H. ANDERSON, Walhalla, N. D. The object of this invention is to provide a suitable construction whereby to properly balance a pedal provided with a toe-clip so as to prevent its being turned by the weight of such clip.

**REIN-HOLDER.**—J. GRANGER, Springer, New Mexico. The rein-holder may be readily attached to a dashboard or other part of the vehicle, and the reins may be easily engaged and clamped thereby, especially when the harness trace is slack, so that the reins cannot be drawn out by a forward pull.

## Miscellaneous Inventions.

**DOUBLE IRONING-BOARD.**—J. M. GERNERT and J. F. ATEN, Bellevue, Ohio. Two ironing boards are foldably connected with each other, which enables the use of either board. The boards are of different marginal forms, and one board becomes the base for the support of the other, which is being put in use.

**NECKTIE-FASTENER.**—A. N. DOW, Exeter, N. H. The device which is of simple construction is designed to effectually hold a tie or bow of any form and prevent it slipping upward at the front of the collar.

**NECK-BAND-SHAPER.**—M. H. ELLENBOGEN and A. L. LEVY, Paterson, N. J. The neck-band-shaper is readily adjustable to different sized neckbands, and may be conveniently ap-

plied to the neckband to hold the same in proper position during the ironing of the shirt yoke to insure proper setting and uniformity in shape.

**BELT-CLAMP FOR BUCKLES.**—L. SANDERS, Brooklyn, N. Y. The invention provides a clamp for a belt adapted to be used in connection with a buckle, and the device is so constructed that the ends of the belt may be readily and conveniently connected and the belt rendered larger or smaller to any extent within the limit of its adjustment.

**BOOK-COVER.**—F. C. G. KNIBB, London, and THOMAS R. TOWLER, Woodford, England. The improvement relates particularly to book covers of yielding material, such as are designed to be carried in the pocket. The invention provides means for rendering the cover stronger at the edges than are the usual covers.

**TRIPOD.**—W. K. HOLMES, Brooklyn, N. Y. The tripod is constructed with telescopic leg sections, which are so arranged that when drawn out to their full extent they may be held in this lengthened position by simply turning the sections slightly in one direction.

**KITE.**—H. J. TRAINOR, Jersey City, N. J. The kite has certain peculiarly arranged whistles therein, and a telephonic receiving device connected therewith which is adapted to be held in the hand of the person flying the kite, the connection being such that the noise of the whistles will be communicated to the receiver.

**VEIL-FASTENER.**—W. BERNSTEIN, New York, N. Y. The veil fastener is adapted for permanent use on a lady's hat, to allow of quickly and conveniently securing the veil in place. The fastener is rather inconspicuous and hence does not mar the appearance of the hat.

**CALENDAR-BLOTTER.**—S. M. DEWEY, Rutherford, N. J. Mr. Dewey has provided a convenient blotter and a daily calendar in such a manner that a new blotting sheet or a new calendar can be readily inserted and securely held in position for convenient blotting of sheets and for displaying the day of the week, month, and year, together with suitable advertising matter.

**BUILDING-BLOCK.**—A. DE MAN, New York, N. Y. The building block is designed for use in fireproof flooring constructions, especially such as have I-beams for floor supports. The building block reaches from one floor-supporting beam to the next adjacent one, and is arranged to permit the convenient handling and placing of the blocks in position, one alongside the other, to form a sectional slab of great strength and durability, producing a flat ceiling and straight top surface.

**STOP-MOTION FOR MECHANICAL TOYS.**—A. D. CONVERSE, Winchendon, Mass. The device provides an effective means whereby when the motor or mechanical toy is wound up it will not act upon the axle or wheel of the toy with which it is connected until the toy is brought in contact with the support upon which it is adapted to travel.

**NECKTIE-FRAME.**—A. COLE, Hood River, Oregon. The frame is made from one piece of spring wire, thus dispensing with a separate cardboard or metal piece, and the device is so constructed as to constitute an efficient form of support for the body or knot portion of the tie and provides means for attachment to a collar-button and any style of turndown collar.

**CHURN-COVER.**—T. H. B. VAN HOOZER, Comanche, Texas. The churn-cover embodies a closed, dead air space above the body of the churn, a guide tube for the dasher rod, and a special construction at the outer edge of the base of the cover which provides a channel to fit upon the upper edge of the churn body.

**SHOWCASE.**—A. REINLE, Baltimore, Md. In this invention Mr. Reinle provides a novel form of resilient joint strip for application between the abutting plates of glass. The strip is so constructed that it will overlap both edges of the plate of glass, thus dispensing with the necessity and expense of grinding the edge of such plate.

**SHOE-LACE FASTENER.**—L. H. HANCOCK, Fargo, N. Dak. This device is adapted to securely hold and clamp the loose ends of a lacing or string to the upper part of a shoe, thus obviating the necessity and inconvenience of tying the strings.

**GARMENT-STRETCHER.**—H. A. BROWN, Macon, Ga. By this invention Dr. Brown has produced a simple device which is light, so it can be easily carried in a valise and will occupy but little room therein and which can be used for creasing trousers whenever desired. This result is effected without the use of irons.

**BURGLAR-ALARM.**—W. H. MOODY, Dallas, Texas. This economical, portable, cartridge-discharging burglar alarm is adapted for attachment to a window or a door, and is so constructed that it will be quick and positive in its action, and may be left indefinitely in firing position without detracting from its usefulness. A simple locking device is provided which may be set to hold the hammer cocked, permitting the device to be carried with comparative safety.

**FLOOD-GATE.**—H. B. CASPERSON, St. Marys, Ohio. This flood-gate belongs to the class wherein a horizontally-hung gate is associated with a fender that is arranged to face up-stream. In the present invention the gate and its fender are permitted to assume hori-

zontal confined positions on the rising of the water, so as to float thereon when the flood is at its height. Means are provided for opposing the rising motion of the gate and the fender, which means is also free to be lifted thereby on an increase in the volume of the flood, thus minimizing all liability of injury to the parts.

## Designs.

**ORNAMENTAL FRAME FOR TEAPOTS OR SIMILAR ARTICLES.**—E. PIEPENBRING, Washington, D. C. The design is in the nature of a silver or other metallic frame of ornamental character embracing the body of the vessel, and is jeweled and ornamented to represent holly sprays with the berries, and has a shield-like figure and edge ornamentations producing an extremely ornamental and attractive frame.

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

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

**Inquiry No. 2793.**—For manufacturers of novelties and Christmas toys.

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

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

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

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Gear Cutting of every description accurately done. The Garvin Machine Co., 149 Varick, cor. Spring Sts., N.Y.

**Inquiry No. 2797.**—For parties to make an endless combination belt of hair and rubber exposing immovable hair on the face and rubber on the inner side.

We design and build special and automatic machinery for all purposes. The Amstutz-Osborn Company, Cleveland, Ohio.

**Inquiry No. 2798.**—For dealers in corks coated with a rubber-like composition.

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

**Inquiry No. 2799.**—For a knurling tool for making embossed paper of special pattern.

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

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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.

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IDEAS DEVELOPED.—Designing, draughting machine work for inventors and others. Charles E. Hadley, 54 Hudson Street, New York.

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Send for new and complete catalogue of Scientific and other Books for sale by Munn & Co., 361 Broadway, New York. Free on application.

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**Inquiry No. 2804.**—For an apparatus for reproducing written reports in numbers.

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**Inquiry No. 2806.**—For dealers in blades for lawn mowers.

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**Inquiry No. 2819.**—For dealers in rubber specialties.

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