

## RECENTLY PATENTED INVENTIONS.

## Electrical Devices.

**COUPLING FOR ELECTRIC WIRES.**—R. G. CASTILLO, Mexico, Mexico. In this patent the invention relates particularly to improvements in couplings for trolley-wires of electric railways, an object being to provide a coupling of simple construction and so arranged that should a trolley-wire break and its end fall to the ground the fallen section will be wholly cut out of electrical connection, and thus prevent the possibility of accident from an electric current.

**ELECTRIC BLOCK-SIGNAL SYSTEM.**—T. SILVENE, Victoria, Canada. This signal is intended for use upon railways. Mr. Silvene's object, more particularly, is to produce a neat, reliable, and simple system whereby a train may automatically display a danger-signal in the block upon which it stands and in the block ahead and may automatically display a safety-signal in a block to the rear. The system is applicable to single or double tracks.

**ELECTRIC SIGNAL SYSTEM.**—O. ERNST, Larchmont, N. Y. The invention relates to electric signaling, and more particularly to the production of a simple and reliable signal for use in connection with electric railways and adapted to warn the engineer at the power-house and the motor-man whose train happens to be near the seat of trouble upon a particular part of the line.

**TROLLEY.**—J. A. LAVERY, New York, N. Y. In this patent the invention has reference to improvements in trolleys used in connection with the overhead wires of electric railways, an object of the inventor being the provision of a simple and novel means for preventing the accidental displacement of the trolley from the wires.

## Hardware.

**MITER-BOX.**—J. J. MARRS, Harrison, Ark. In this instance the invention relates to wood-sawing; and the object is the provision of a new and improved miter-box adapted to be adjusted to allow the user to accurately produce on the side or face of the timber or her work a cut of any desired angle. It is understood the box may be used for other purposes.

## Hydraulics.

**HYDRAULIC PRESS.**—P. W. FULLER, Dorchester, Mass. This invention pertains to improvements in hydraulic presses or similarly-actuated devices, an object being to provide a press of very simple construction in which two different liquids are employed in connection with an equal arm-lever, whereby a press of great efficiency is provided.

**MECHANISM FOR RAISING LIQUIDS FROM DEEP WELLS.**—T. F. MORAN, De Young, and F. J. MOSER, Kane, Pa. This invention relates to mechanism for raising liquids from deep wells. The air pipe is provided at its lower end with a self-closing valve which cuts off egress of air as soon as the pressure thereof within the air pipe drops below a certain limit. A casing encircles the air pipe, and is provided with an inlet valve so disposed that the fluid in the well maintains a constant level and the formation of paraffin is reduced to a minimum. The well is provided with sand traps which prevent evil effects from the inflow of sand.

## Lighting and Heating.

**CARBURETER.**—D. D. RANNEY, Payette, Idaho. The aim of the invention is the provision of a new and improved carbureter, very effective in operation, and arranged to cause a proper vaporization of the oil and the mixing of the oil-vapors with air to insure the formation of a rich and readily-combustible gas.

**MINER'S CANDLESTICK.**—E. W. PACKER, Mace, Idaho. In this instance the invention has for its object to provide a candlestick formed entirely from wire of novel simple form that adapts the candlestick for every convenient use and greatly cheapens the construction, the invention being well adapted for use in mining for metals that are contained in quartz rock. The wire may be of steel or iron of any suitable gauge.

**HEATER.**—B. I. MAHON, Sanborn, Iowa. The object of the invention is to provide a water and air heating attachment for stove-pipes, the same being in practice applied to the pipe at any desired point and generally in a room separate from that in which the stove or furnace is located. The attachment utilizes the heat derived from the products of combustion passing through the pipe and is adapted to contain water, which may be drawn off for any purpose and at the same time radiate heat into the apartment.

## Machines and Mechanical Devices.

**APPARATUS FOR TREATING NEGATIVES AND PRINTING-PLATES.**—W. G. THORPE, St. Paul, Minn. In this patent the invention is an improved apparatus for drying photographic negatives after developing and for treating half-tone and other printing plates by means of an etching solution to produce a relief-surface thereon and by subsequently developing and washing such surface.

**MECHANICALLY-ACTUATED ORGAN.**—C. I. D. LOEFF and F. A. KNAPP, Brooklyn, N. Y. The object of this invention is to provide a new and improved mechanically-actuated organ arranged to play a number of long pieces of music successively without requiring a change of note-sheet, the organ being more especially designed for use on merry-go-rounds and in halls, pleasure grounds, and other places of amusement.

**BOTTLE-CORKING MACHINE.**—J. F. SCHNEIDER, New York, N. Y. This invention relates to improvements in bottle-corking machines in which the several operations are automatically performed by the act of placing the bottle in the holder; that is, on the introduction of a bottle the machine is started, the bottle is raised, the cork is fed to a position over the bottle, and the cork driven in, after which the machine is thrown out of gear and stops, so that the corked bottle may be removed by an operator.

**BOLT-TURNING HEAD.**—B. DEK. JACKSON, Altoona, Pa. Mr. Jackson's invention has reference to improvements in devices for turning bolts, rivets, or the like, an object being to provide a turning-head by means of which the work may be rapidly done and which may be quickly adjusted for different sizes of bolts.

**MACHINE FOR GRINDING CUTTERS.**—E. SCHROEDER, New York, N. Y. The object of the invention is to provide a new and improved machine more especially designed for accurately grinding rotary cutters—such, for instance, as is used in a fleshing and shaving machine for raw or dressed furs or skins, for which former Letters Patent have been granted to Mr. Schroeder. The operations of this machine do not require the employment of highly-skilled labor.

**APPARATUS FOR COALING BOATS.**—H. D. STEARNS, New Orleans, La. In this case the invention relates, generally stated, to apparatus arranged on a coal-barge employing coal elevating and discharging means and suitable power means, also on the coal-barge, adapted for operating the elevating and discharging means. Coal breaking and weighing devices form a part of the apparatus as a whole.

**GRINDING-MILL.**—G. C. PRENZEL, Franklin, Tenn. This invention relates to improvements in mills designed for use in connection with roller flour-mills, and particularly adapted for grinding pure middlings, fine flat middlings, flat tailings, and low grade stock, an object being to provide a machine by means of which the work may be rapidly and thoroughly done.

## Of Interest to Farmers.

**AUTOMATIC GATE.**—R. BOLINGER, Sheridan Lake, Col. Operating means in this gate act gradually in opening and closing it, avoiding jars and shocks. Springs transmit movement of operating devices to the gate so that movement of the gate will be gradual and shockless and the pull of the devices will not be exerted directly on the gate but on the springs and through these to the gate. Means are provided so that whether the devices are pulled quickly or slowly the gate will move at about the same speed. Means provide that the gate will be opened and closed by the springs with ample time for both movements.

**REEL FOR PLANTERS.**—J. H. GROOTERS, Allendorf, Iowa. The invention relates to an attachment to planters of that type which is provided with a guide wire, chain, or cable, one end of the wire, chain, or cable being adapted for attachment to a stake fastened to the ground at one end of a proposed row, the other end of the wire, chain, or cable being adapted for attachment to a reel mounted to rotate at the rear of the machine, and is a division of the application for an improvement in planters formerly filed by Mr. Grooters.

**PLOW.**—W. T. GEORGE, Fayetteville, Tenn. In this case the invention relates to improvements in reversible double-shovel plows, an object being to provide a plow of this character so arranged that changes can be quickly made to place either shovel in advance of the other while plowing on a side hill, so that the dirt will be thrown in the same direction in both furrows.

**MACHINE FOR PULLING STALKS.**—G. M. KIRKPATRICK, Ennis, Texas. The purpose in this instance is to provide a machine for pulling up corn and cotton stalks by the roots and breaking the stalks in small pieces and to provide a construction wherein the stalks will be guided by the pulling-section of the machine and the pulling-section may be adjusted to suit the average height of the stalks and bodily raised and lowered at any time to permit the pulling-section to be carried out of the way of obstructions.

## Pertaining to Vehicles.

**AXLE-OILER.**—J. C. LAMBERT, Tonica, Ill. Mr. Lambert's invention has reference to improvements in oilers for vehicle-axle skeins, an object being to provide an oiler of simple construction and consisting of few parts and that can be readily removed or replaced with the hub-nut without interfering with the oil in the cup.

**CARRIAGE-TOP.**—L. C. SHIPLEY, New York, N. Y. In this patent the invention relates to improvements in carriage-top frames, an object being to provide a frame so constructed as to fold compactly when not in use. In folding the several standards swing inward toward each other, and the several members when folded lie on studs. The invention is not confined to a carriage-top, as it may be used for awnings on boats or otherwise placed.

## Railways and Their Accessories.

**COUPLING FOR AIR-BRAKE HOSE.**—A. F. ALLAN and J. A. LENHOFF, Wilmington, Del. These coupling improvements are upon a device for which the inventors were allowed a former patent, and provide spring-supports for the locking-terminals of the hose connected with the air-brake, which supports serve to hold the terminals in correct position when uncoupled and assure coupling of opposing locking-terminals, which terminals when coupling is effected are in proper alignment, occupying certain positions, according to whether the couplings of opposing cars are the same distance from the ground or higher or lower than the other, in which position they are held while coupled by means at the outer end of the locking-terminals.

**CUSPIDOR FOR CARS.**—R. T. CUMMINS and O. P. IVIE, Sheffield, Ala. The object of this invention is to provide novel details of construction for a stationary cuspidor located between seats of a passenger railroad-car and which is self-closing at its upper end, is convenient to open for use by the occupants of either seat, is open at its lower end, is readily cleansed, is strictly sanitary, and affords a necessary accommodation to the travelers.

## Of General Interest.

**BANANA-HOLDER.**—E. W. LYONS, Chicago, Ill. The invention relates to improvements in devices for holding bananas or similar fruit for transportation, an object being to provide a device for this purpose of simple construction, inexpensive, and in which fruit may be readily handled without danger of breakage or other damage. The distance between the bag and the supporting-frame prevents danger of the fruit coming in contact with the frame.

**INVALID-BED.**—J. HALL and HATTIE A. PADDLEFORD, North Monroe, N. H. This invention permits an invalid occupying the bed to void excrement, liquid or solid, while in a sitting or reclining posture through the bed-bottom and mattress into a receptacle held beneath the bed in a conveniently-removable manner. It enables a bedfast invalid to receive medical treatment for diseases of the womb and uterus, such as the application of douches, and also to afford means for bathing feet and lower limbs without exposing other portions.

**WINDOW-SCREEN.**—T. A. FOUST and W. A. HUNTER, Pittsburg, Pa. This invention refers to improvements in window-screens for excluding flies and other insects, an object being to provide a screen and novel attachments whereby the screen may be moved vertically in the window-casing and held at any desired adjustment and also be swung horizontally with relation to the casing.

**FLUE OR DUCT.**—H. H. LAWS, New York, N. Y. In this patent the object is to provide a flue or duct made in sections adapted to be readily united and securely fastened together and arranged to present a smooth connection at the joint of the sections, to reduce the resistance to the fluid passing through the flue or duct to a minimum, at the same time strongly reinforcing the sections at the joint.

**FASTENING FOR SECTIONAL TUBING.**—O. P. BUCKLAND, Liberal, Kan. Mr. Buckland's invention relates to improvements in fastenings for the sections of tubing—such as well-casings, conductor-pipes, and the like—an object being to provide a fastening of simple construction and which will give strength to the joints between sections and prevent collapsing or telescoping under pressure.

**DOOR-FASTENER.**—W. BOX, Yankton, S. D. The aim in this improvement is to provide a fastener of novel construction that may be readily carried in a person's pocket or baggage and that may be quickly applied to a car to fasten a door, the lock, or other fastening device of which may have become defective or wholly omitted.

**MEASURING DEVICE FOR GARMENTS.**—A. D'ALESSIO, New York, N. Y. This device has arbitrarily-arranged scales thereon to be read in connection with charting of garments, which device may consist of a member for determining the measurements of garments for men and one for women, or wherein the two members, which may be independent, are arbitrarily connected by links or equivalents in a detachable manner, so that the two members will not become separated, although one is used independently of the other.

**CALIPERS OR DIVIDERS.**—F. H. CAWLEY, Vancouver, Canada. Mr. Cawley's invention is an improvement in calipers, dividers, and the like—such, for instance, as compasses; and it consists in the novel construction and combination of parts whereby the legs are supported and may be adjusted and secured

in any desired adjustment. The construction is simple and easily operated.

## Designs.

**DESIGN FOR A PICTURE-FRAME.**—V. GRAZZINI, New York, N. Y. This ornamental design consists of a life-buoy circle within which is placed an oval picture holder, gracefully tied about the oval and across the buoy at four equi-distant points with a band of four ropes. The design is wholly nautical. At the bottom of the buoy is an anchor and chain, and above at each side a pole with a flag.

**DESIGN FOR A HANDLE FOR MIRRORS, BRUSHES, OR LIKE TOILET ARTICLES.**—S. A. KELLER, New York, N. Y. In this ornamental design the graceful figure of a woman half draped constitutes the handle. The arms are extended, the head poised sideways and backward, and spreading a wealth of hair. The extremity of the figure vanishes below into scroll work. Mr. Keller has patented another design. It comprises a handle for mirrors, brushes, or like toilet articles, and the ornamental features are the head and bust of a woman, the head bonneted and the body disappearing into ornamental scroll work, the latter pointed with flowers.

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 bridge erecting engines. J. S. Mundy, Newark, N. J.
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- If it is a paper tube we can supply it. Textile Tube Company, Fall River, Mass.
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- Inquiry No. 5607.**—For makers of the J. Stegley patented planes.
- The largest manufacturer in the world of merry-go-rounds, shooting galleries and hand organs. For prices and terms write to C. W. Parker, Abilene, Kan.
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- Sheet metal, any kind, cut, formed any shape. Die making, wire forming, embossing, lettering, stamping, punching. Metal Stamping Co., Niagara Falls, N. Y.
- Inquiry No. 5609.**—For makers of grading machinery, also machinery for building large irrigation ditches.
- The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Machine Company. Foot of East 12th Street, New York.
- Inquiry No. 5610.**—For machines for making mailing tubes of paper, with diameter of about 1 inch or more, length 1 yard or more.
- Partners for Foreign Patents Wanted.—Incubator-brooder, a money-making combination. Entirely new principle. Half interest. Chas. H. Sperle, Bound Brook, New Jersey.
- Inquiry No. 5611.**—For machinery for making covers for paper "blocks," such as are used to roll or wind ribbon upon in silk ribbon establishments.
- I have a patent on a new hook and eye, that I want to place with some manufacturer to make and market, on liberal terms.
- W. A. Maxwell, Marianna, Fla.
- Inquiry No. 5612.**—For makers of round paper boxes for insect killer.
- Manufacturers of patent articles, dies, metal stamping, screw machine work, hardware specialties, machinery and tools. Quadriga Manufacturing Company, 18 South Canal Street, Chicago.
- Inquiry No. 5613.**—For manufacturers of stationary gas engines.
- FOR SALE.—Patent, New Device. Memorandum and "Calls frequently used" attachment for desk telephones. Sheet metal cheaply manufactured. Mail order houses, light manufacturers and others investigate.
- Inventor, 235 Boston Block, Minneapolis, Minn.
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