RECENTLY PATENTED INVENTIONS.

Mechanical.

SASH LOCK AND OPERATING DEVICE. —Abraham L. Schiller, Scranton, Pa. This invention relates to devices for raising and locking window sashes, and is particularly adapted to the single sash generally employed in vehicles, such, for instance, as cars, and the object is to provide such a device whereby the sash may be lowered by gravity to an open position and raised to a closing position by the simple arrangement of a drum and flexible connections between the drum and sash, and also wherein the window sash may be secured at any desired opening. It consists of a sash-raising device, comprising a rotary shaft, a drum movable longitudinally on said shaft, a clutch mechanism between the drum and shaft, whereby the said drum and shaft may rotate together, means for moving said clutch sections into engagement, means for separating the sections, and flexible connection between the drum and window sash.

PHOTOGRAPHIC WASHING TANK. — George R. Perkins, Schuyler, Neb. The object of the invention is to provide a new and improved portable washer for photographic negatives, arranged for properly washing the developed negative plates, and for permitting the same to dry after washing and without requiring a rehandling of the plates. The invention consists principally of a wash box having an overflow and an automatically opening outlet, said wash box being adapted to contain the negative plates to be washed, and a float valve for controlling the water supply to said box.

FIRE EXTINGUISHER NOZZLE.—John George Hagmann, La Crosse, Wis. This invention relates to nozzles for the discharge and spread of water in the case of fire, and it is designed to be secured to the outer side of a building or to the inner side thereof in any room or rooms, and it may also be adapted for use in connection with the nozzle of an ordinary fire hose. It consists of a nozzle for a fire extinguisher, substantially trough-shaped and having its bottom wall inclined from the ends downward to the central portion, and an inlet in the lower portion thereof, the said nozzle being arranged at an angle to the inlet, and having a drain through the lower portion of its front wall.

WRENCH.—Joseph Shafer, San Bernardino, Cal. The object of the invention is to construct a wrench especially adapted for removing nuts from vehicle axles in such manner that the nut need not at that time be grasped by the hand, thus preventing the fingers of the hand from becoming soiled. Another object of the invention is to provide a wrench through the medium of which a nut may be quickly and conveniently removed from or placed upon the vehicle axle, and whereby the wrench will be capable of starting the nut, no matter how fast it may be secured, and to screw the same securely to a bearing. A further object of the invention is to provide a wrench whereby, after the nut has been loosened, it may be expeditiously and conveniently removed from the axle, or wherever it may be placed, without swinging or moving the body of the handle of the wrench. The invention consists in the combination of a handle having a longitudinally slotted head and a projection adjacent thereto, a bolt extending through said slot and capable of sliding and turning therein, a casing made in the shape of an open polygonal box whereby it is adaped to engage a nut, said casing being secured to the bolt one side of the handle, a locking wheel secured to the bolt on the opposite side of the handle and adapted to engage the lug thereon, and means for turning the casing and the wheel.

STEAM DISTRIBUTOR FOR GAS GENERATORS.—Joseph H. Baker. Brooklyn, N. Y. The object of the invention is to provide for a uniform and even distribution of the steam to the fore of such furnaces and to cause the steam to be supplied to the maximum of fire service and in a dry state, thereby greatly increasing the hydrogen production of the gas generating furnace over that obtained by the steam jet usually employed to promote combustion. In brief, the invention consists of a steam distributor for gas generating furnaces, the same consisting of a body portion having an enlarged and open lower end and having an opening in its side and at its upper portion, a deflecting plate, a bolt connected to the upper portion of the body portion and holding the deflecting plate below the open lower end of said body portion, and a series of spacing pins, said pins being connected to the deflecting plate and extending upwardly therefrom, the pins having notches in their upper ends, the notches receiving the lower edges of the body portion.

SLEIGH KNEE.—Franklin D. Smith, Fremont, Mich. This invention relates to certain improvements in sleigh knees, such as are employed for connecting the runners detachably to the beams of sleighs, and the object of the invention is to provide a device of this character of a simple and inexpensive construction, which shall be adapted when in use to hold the runners securely in place, but capable of ready and convenient removal, so that the sleigh may be compactly stored away and packed up during the summer and for shipping. The invention consists in a sleigh knee composed of two sections, one of which is secured to the runner and is provided with a socket to receive the correspondingly formed portion or journal on the other section, which is secured to the sleigh beam, and a locking device to hold said sections together and permit them to oscillate and be readily detached.

MICROMETER CALIPERS.—Samuel H. Markham, Pittsburg, Pa. This invention consists of a micrometer gage comprising a frame having a tubular shank, a jaw movable in said shank, a sleeve movable rotatively and longitudinally on the shank and operatively connected to said movable jaw, graduations formed around one end of the sleeve, and a series of eight graduations, each extending longitudinally of the shank and adapted to be traversed by the graduations on the end of the sleeve, said series of eight graduations occupying a part of the surface of the shank corresponding to the space occupied by seven graduations on the sleeve.

Electrical.

ELECTRIC BATTERY ELEMENT. — George J. Ortner, Pueblo, Col. The invention relates particularly to zinc elements for a battery, and the object is to so construct the element that there will be practically no waste of the zinc; and further, to so construct the element that several may be packed closely together for transportation. It consists of a zinc element for a battery, comprising a hub portion having a tapered opening, an amalgamated zinc supporting stem having a tapered portion at its lower end, having a length substantially equal to the length of the opening in the element hub and having a straight cylindrical portion above the tapered portion of a diameter equal to the smaller end of the opening through the hub.

Miscellaneous.

SCISSORS SHARPENER.—Warren Titus, of Kelley's Island, O. The invention is in the nature of a simple and practical device for rapidly sharpening scissors or shears, producing a smooth, true, and fine edge with any degree of bevel to said edge. The invention consists of a sharpener for scissors and shears comprising an abrasive surface, laterally yielding guides for the scissor blade, and a yielding presser foot bearing upon the back edge of the blade.

UNDERWAIST.—George D. McKay, Minneapolis, Minn. The object of the invention is to provide an improved underwaist for boys, but applicable also for the use of girls and ladies, which shall permit a perfect freedom of action for the child at the waist line in romping and playing, allowing free use of the body in bending forward, backward, or sidewise without straining the buttonholes, tearing the clothing, or twisting off the buttons, and which shall also support the hose in an elastic manner. The novelty of the invention consists as an improved article of manufacture of an underwaist provided with a drawers supporting belt arranged entirely below the lower edge of the body of the waist, whereby to avoid the bulk resulting from an overlapping of said edge and belt, the latter being provided with fastening devices for securing the drawers, the body of the waist being provided along its lower edge from end to end thereof with a series of depending elastic straps connecting said body of the waist with the belt.

SASH FASTENER.—Thomas E. Epting, of Jennings, South Carolina. The invention relates to that form of sash holder in which double locking pawls are arranged between the sash and the stationary window casing; one of which pawls locks the sash against upward movement and the other of which locks the sash against downward movement; and it consists in the peculiar construction and arrangement of the parts for rendering the device univerally applicable. In brief, it consists of a sash holder and lock comprising a box or casing, two spring seated pawls fulcrumed near the ends of the box and having their inner ends converging and protruding through the side of the box near its middle, and having push buttons on their other ends protruding through the outer side of the box near its ends, and a series of headed pins or screws seated in the sliding window sash at right angles to the same and co-operating with the pawls.

DISPLAY RACK.—Clarence L. Willits, Galva, Ill. This invention has for its object to provide a display rack, which will be particularly adapted for the purpose of displaying neckties, and one which may be readily adjusted to adapt itself to the amount of articles to be displayed to show them, and to this end the invention consists in a device comprising two longitudinal base bars having peculiar features of construction, and having standards rising vertically therefrom. These standards are arranged in transverse pairs and carry devices for supporting the neckties or other articles displayed, and by reason of the peculiar features of construction which the standards and said supporting devices have, the invention is particularly advantageous.

PUZZLE.—Walter E. Wilcox, Arkansas City, Kan. The object of the invention is to provide a puzzle in which a teeter bar is employed, together with three rolling objects, preferably marbles, the teeter bar being provided with sundry openings, the puzzle consisting in so distributing the rolling objects or marbles on the teeter bar as to balance the same. The rolling objects or marbles are adapted to represent the proverbial "Three Blind Mice," and are to be guided to proper positions on the teeter bar.

BANK FIXTURE.—Ishmael Jay Barnes, Decatur, Ia. The object of the invention is to provide a new and improved bank fixture which is simple and durable in construction and arranged to enable the cashier or other official to protect himself and the money in his charge against burglars and thieves during business hours. It consists of a bank fixture, comprising a series of slats journaled in an open frame, a bar connected with the said slats to open and close the same, a spring pressing on the said bar, a locking device engaging the said bar and adapted to normally hold the same in position when the slats are open, and a drop door provided with a catch adapted to engage a shoulder on the said bar, to support the door in an uppermost position when the slats are open, and a drop door provided with a catch adapted to engage a shoulder on the said bar to support the door in an uppermost position and to permit the door to drop when the bar slides to close the slats.

CLOTHES DRIER.—Sebastian T. Hollister, Brooklyn, N. Y. This invention relates to certain improvements in clothes driers, and has for its object to provide a device of this character of a simple and inexpensive nature, which shall be especially adapted for use indoors for drying clothes and for other household purposes. It consists of a clothes drier, comprising a sheet metal band having its ends provided with reciprocal fastening devices, and having pockets formed in it and arranged in pairs, the pockets of each pair being aligned with each other transversely of the band, and a hook or spring wire having its ends arranged adjacent and bent in opposite directions, said bent ends of each hook being provided with shanks arranged to engage the pockets of one pair and being held therein by the elasticity of the body of the hook, the combined length of the shanks of each hook being greater than the distance between the adjacent ends of the pockets which they engage.

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(6886) E. L. J. says: Will you please give me a formula for staining the inside of a camera dull black? A. A good dead black is made as follows: Mix drop black, ground in turps, with gold size and turps—enough gold size to keep the black from rubbing off when dry.

(6887) F. H. E. asks if a permanent magnet is affected by heat. If so, where or at what temperature does the action commence? Is the temperature produced by steam under 100 pounds pressure sufficient to demagnetize a permanent magnet? A. A magnet is demagnetized by a heat bordering on red. The heat mentioned will not injure it.

(6888) A. K. says: Would you kindly inform me as to how to make and what different articles to use to make impression wax? A. Temper paraffin wax with olive oil to suit conditions. Mix a little whiting with it while hot.

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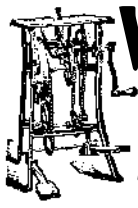
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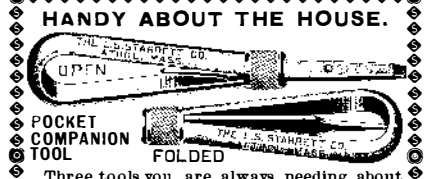

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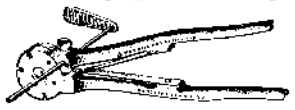
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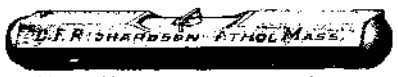

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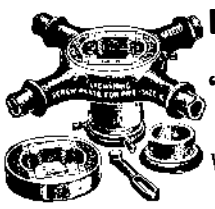
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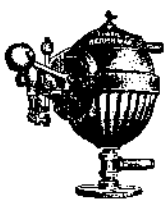
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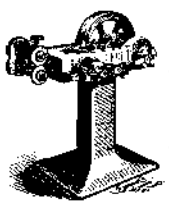
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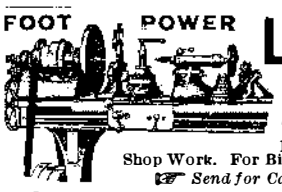
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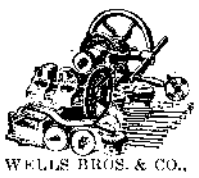
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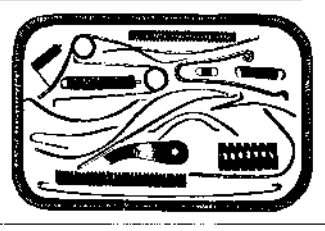
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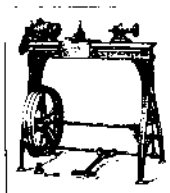
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