

**No. 36,506. Combination Lock and Power Equalizer.** (*Serrure à combinaison et regulateur de la force.*)

William Walter Alexander, Kansas City, Missouri, U.S.A., 1st May, 1891; 5 years.

*Claim.*—1st. The combination of a wheel having upon its periphery a series of notches at irregular intervals, a lever 6, having one end pivoted upon the shaft of said wheel, a pawl pivoted upon said lever and having one end adapted to engage with the notches of said wheel, and the opposite end provided with a T-shaped head, the adjustable stop pins adapted to engage alternately with the arms of said head, with a lever F, connected to the lever 6, a lever A<sup>2</sup>, and means to actuate the said lever A<sup>2</sup>, substantially as described. 2nd. The combination of a wheel having upon its periphery a series of notches at irregular intervals, and teeth of different widths, a nearly counterbalanced retaining pawl, a pivoted lever 6, a pawl pivoted upon said lever and stop pins to react upon said pawl with a pivoted lever F, a pivoted lever A<sup>2</sup>, and means to actuate said lever A<sup>2</sup>, substantially as set forth. 3rd. The combination of a wheel having upon its periphery a series of notches at irregular intervals, a pivoted lever 6, a pawl upon said lever and stop pins to react upon said pawl, a coiled spring wound upon the shaft of the wheel to propel it in one direction and forming a part of an electric circuit, a contact pin upon said wheel, and a spring finger adapted to close the electric circuit by contact with said pin, substantially as and for the purpose described. 4th. The combination of a wheel having upon its periphery a series of notches at irregular intervals, a pivoted lever 6, a pawl upon said lever, a coiled spring wound upon the shaft of the wheel to propel it in one direction, a pivoted lever F, connected with the lever 6, a dash pot piston rod at one end of the lever F, a disk upon said rod and a dash pot to receive said rod and disk with a lever A<sup>2</sup>, bearing against the opposite end of the lever F, and means to actuate said lever A<sup>2</sup>, substantially as set forth. 5th. The combination of a wheel having upon its periphery a series of notches at irregular intervals and teeth of different widths, a pivoted lever 6, a pawl upon said lever, a coiled spring wound upon the shaft of the wheel to propel it in one direction, a pivoted lever F, connected with the lever 6, a dash pot, a piston rod connected to one end of the lever F, and entering said dash pot, a perforated movable piston and a stationary disk upon said rod, substantially as and for the purpose described. 6th. The combination of an electric circuit, a wheel, its shaft, and a coiled spring, said wheel, shaft and spring forming part of said circuit, and the wheel carrying a contact to actuate said circuit, and a stationary metal connection in the path of said contact, whereby the contact forming a part of said wheel is adapted to close the circuit, substantially as and for the purpose described. 7th. The combination of an electro-magnet and a toggle, with an armature having one end hinged to one pole of said electro-magnet, and the other end connected to said toggle, substantially as and for the purpose set forth. 8th. An electro-magnet and a pivoted armature, in combination with a pair of toggle links, one of which is pivoted at its free end to said armature and a body fixed to the other link and adapted to rotate therewith. 9th. The combination of an electro-magnet, its armature hinged to one pole of said electro-magnet, a toggle connected with said armature and a spring connected with said toggle, substantially as and for the purpose described.

**No. 36,507. Protector for Dust.**

(*Garde-poussière.*)

Miles Cowan, Windsor, Ontario, Canada, 1st May, 1891; 5 years.

*Claim.*—A dust protector to be worn about the neck, consisting of a floating collar made of cotton, linen, silk, or other suitable material, about four inches in diameter, but varying in width and length, so shaped as to fit neatly over neck and upper part of shoulders, with a narrow hem at the top through which a spring steel wire or other band with a natural coil is pushed, capable of being distended as to pass easily about the neck and to securely hold the protector in position.

**No. 36,508. Apparatus for the Continuous Manufacture of Sulphite Lye.**

(*Appareil pour la fabrication continue de sulphite de lessive.*)

Alexander Wendler and Julius Spiro, both of Watertown, New York, U.S.A., 1st May, 1891; 5 years.

*Claim.*—1st. The combination of the saturating tank K, having drip shelves a, a, with a lower gas supply pipe, an upper lime-water supply pipe 7, and upper weak lye supply pipe 8, substantially as herein shown and described. 2nd. The combination of a saturating tank K, having drip shelves a, a, with the lower vats A, B, gas supply pipe entering said vats, weak lye pipe 2, leading from said vats, upper weak lye supply pipe 8, vat C, communicating with pipes 2, and 8, and with the top of tank K, and lime-water supply pipe 7, to upper part of tank K, as described. 3rd. The elevated vats C, D, combined with the saturating tank K, having drip shelves a, a, and connecting pipes at its upper end leading to said vats, and with the lower vats A, B, pipes connecting them with the lower part of tank K, with the gas supply pipe 1, leading into the vats A, B, and with the pipe 2, connecting the lower vats A, B, with the elevated vat C, substantially as herein shown and described.

**No. 36,509. Car Coupler.** (*Attelage de chars.*)

Charles F. Mowll, East Cambridge, Massachusetts, U.S.A., 1st May, 1891; 5 years.

*Claim.*—In a car coupling, the combination, with a draw-head having a vertical pin opening, a transverse opening entirely through the draw-head intersecting said pin opening, and a recess in the

bottom of said opening, of a pin passing vertically through said pin opening, and a link of a size to fit in said recess and to project beyond the end of the draw-head, as and for the purpose hereinbefore set forth.

**No. 36,510. Guide for Saws.** (*Garde-scie.*)

John Edward Bill, Evansville, Indiana, U.S.A., 1st May, 1891; 5 years.

*Claim.*—1st. In a saw guide, the combination, with an outer casing of the cylindrical sleeve, having the guide arm at its forward end and the threaded rear end, the shaft having the guide arm at its forward end and the threaded rear end, and the threaded sleeve and adjusting screw, substantially as set forth. 2nd. In a saw guide, the combination, with the cylindrical sleeve and shaft carrying the guide arms, of the outer casing consisting of the lower half formed integral with the stem and base, and the upper half secured thereon by the screw bolts, substantially as set forth. 3rd. In a saw guide, the combination, with an outer casing, of the cylindrical sleeve formed with the threaded rear end and the integral guide arm at its forward end, the shaft formed with the threaded rear end and the integral guide arm at its forward end, and the threaded sleeve and adjusting screw, substantially as set forth. 4th. The combination, with the outer casing, of the cylindrical sleeve having the threaded rear end and the guide arm, the shaft having the threaded rear end and the guide arm, the threaded adjusting sleeve and rod, the shaft having the eccentric disk, the ring having the ball and socket joint, the hand lever having the spring-catch and the curved rack, substantially as set forth. 5th. In a saw guide, the combination, with the guide arms, of the apertured wooden guide pins, and the tube 2, 3, conveying water to the said pins, substantially as set forth. 6th. In a saw guide, the combination, with the reversible guide arms, of the reversible support, substantially as set forth. 7th. The combination of the outer casing having the two thumb screws, the cylindrical sleeve having the threaded rear end and the guide arm, and the longitudinal recess formed in its outer surface, the inner shaft having the threaded rear end and the guide arm, and the threaded sleeve and adjusting screw, substantially as set forth. 8th. In a saw guide, the combination, with the adjustable cylindrical sleeve and inner shaft, of the guide arms having at their rear ends the registering apertures, the metal pin passing through said apertures, and the thumb screw, substantially as set forth. 9th. The combination of the outer casing formed with the annular oil chamber and the top feed opening, the cylindrical sleeve having the oil holes, the threaded rear end and the guide arm and the threaded adjusting sleeve and screw, substantially as set forth. 10th. The combination of the outer casing formed with the annular oil chamber, the rabbeted inner ends, and the top feed opening, the cylindrical sleeve having the oil holes, the threaded rear end and the guide arm, the inner shaft having the threaded rear end and the guide arm, and the threaded adjusting sleeve and screws, substantially as set forth.

**No. 36,511. Muzzle for Dogs.** (*Muselière de chien.*)

Francois Louis Antoine Canary, Dragnignan, France, 1st May, 1891; 5 years.

*Claim.*—1st. A dog muzzle having a yielding spring pressed under part which covers the mouth to prevent biting, but allows the dog to eat and drink without the removal of the said muzzle, substantially as set forth. 2nd. The combination of the pivoted frame b, extending down before the dog's mouth with the frame d, having sliding connection at each end the loops or guideways e, the spring h, bearing upward against frame d, and the main part of the dog muzzle from which these parts b, d, e, h, are suspended, as set forth.

**No. 36,512. Process of Reducing Rice to Compressed Flakes.** (*Procédé de réduction du riz en facon compressé.*)

Frank Lanhoff, Detroit, Michigan, U.S.A., 1st May, 1891; 5 years.

*Claim.*—1st. As a new article of manufacture, the herein described product from rice, consisting of drawn and compressed films formed from the rice in its normally dry and raw condition, substantially as described. 2nd. The herein described process of producing films from rice, consisting of subjecting the normally dry and raw material to a drawing compression, substantially as described. 3rd. The herein-described process of producing films from rice, consisting of subjecting the normally dry and raw material to compression between rollers, one of which has a faster rotation than the other, whereby the material is simultaneously drawn out and compressed into the said film, substantially as described.

**No. 36,513. Car Coupler.** (*Attelage de chars.*)

William J. Walker, St. Louis, Missouri, U.S.A., 1st May, 1891; 5 years.

*Claim.*—1st. In a car-coupler of the class described, a rotary hook adapted to be pivotally secured to a drawbar, an opening formed in said hook, and a locking device adapted to enter the said opening, whereby the strain or draft is brought against the solid portion of the drawhead, substantially as described. 2nd. A car-coupler consisting of a drawbar, a rotary hook adapted to be secured thereto, and a locking device provided with ears adapted to be inserted within the said drawbar through a suitable opening formed in the same, substantially as described. 3rd. In a car-coupler, a locking device provided with an enlargement 11, which is adapted to bear against the solid portion of the drawhead when strain or draft is applied, substantially as described. 4th. In a car-coupler, the herein described locking device provided with hooked portion 9, ears 6, formed integral with the said locking device, and a depending lug or extension formed upon the lower surface thereof, substantially as described. 5th. In a car-coupler of the class described, having a