

No. 20,112. Straw Burning Furnace.*(Fourneau Consumant la Paille.)*

John Abell, Woodbridge, Ont., 3rd September, 1884; 5 years.

Claim.—1st. The perforated air chamber I J located on the bottom of the leg C, between the furnaces A and E, substantially as and for the purpose specified. 2nd. A straw furnace C provided with a feed-scoop G, in combination with a hinged door H, arranged substantially as and for the purpose specified. 3rd. A straw furnace C, provided with a damper L and fingers T, in combination with a corrugated plate f, substantially as and for the purpose specified.

No. 20,113. Dish and other Vessels.*(Plat et autres Ustensiles.)*

Thomas B. Russell, Fort Valley, Ga., U. S., 3rd September, 1884; 5 years.

Claim.—1st. As an improved article of manufacture, a vessel comprising a body having a circular rim formed with an outwardly projecting flange, in which is provided a recess or notch, and a cover provided with separate inwardly extending corresponding flanges, one of which corresponds to the recess or notch, as set forth. 2nd. The combination, with the body of the vessel having a circumferential rim flange projecting outwardly and formed with a single notch or recess, of a cover having two diametrically opposite flanges or catches, projecting inwardly from its underside, the said cover catches being adapted to be engaged under the body flange and to turn thereon, while one of the cover flanges or catches is of a length corresponding to the notch in the body flange, as set forth. 3rd. The combination, with the body having the circular rim flange projecting outwardly and provided with a notch or recess and also having the horizontal circumferential supporting flange under the said notched flange, of the cover having the diametrically opposite corresponding flanges, one of which is formed of a length corresponding to the length of the notch, the cover being held in position by the notched flange, and supported upon the horizontal flange, as set forth.

No. 20,114. Buckle. (Boucle.)

Warren H. Boles, Fort Plain, N. Y., U. S., 3rd September, 1884; 5 years.

Claim.—1st. A buckle provided with a frame having fastening-eyes, a tongue-bail also having fastening-eyes, a screw-bolt passed through said eyes, and a tube to be secured within a loop of the article to which the buckle is to be applied, through which tube the screw-bolt also passes, substantially as shown and described. 2nd. The frame A having the eyes j, and bail B having eyes k and tongue m, combined with the screw bolt i and tube h, substantially as shown and described. 3rd. The frame A having the eyes j and stay bar f, combined with the pivotal bail B having the eyes k and cross-bar l, provided with tongue or lug m, constructed and arranged substantially as described, to admit of the passage of the brace through the buckle, and the securing thereof in said buckle in a straight line. 4th. A buckle composed of a frame having end and side loops, a tongue stay-bar, a tongue formed upon a pivoted bail, and a screw-bolt and tube to secure the frame and bail in position, substantially as shown and described. 5th. The combination, with the bail having the tongue m, the frame having the cross-bars f and n, and the bolt i for securing the bail and frame together, to permit the passage and securing of the trace in a straight line of the loop e at the rear end, and standing up from the plane of the frame and of substantially the width thereof, as shown and described, to permit the running of the hold-back or long side strap, in a straight or right line, through the buckle from the breeching ring to the neck yoke, as set forth. 6th. The combination, with the buckle and the loop e at the rear end of its frame standing up therefrom and of substantially the width thereof of the hold-back strap, substantially as shown and described.

No. 20,115. Faucet. (Canule.)

Herman H. Orbits and Michael Willet, Detroit, Mich., U. S., 3rd September, 1884; 5 years.

Claim.—1st. In a faucet and in combination with the valve shell, a valve stem operating through a removable plug engaging with the valve shell, such plug being provided with a coupling, by means of which the plug may be disengaged from the valve shell, substantially as described. 2nd. In a faucet, a removable plug F carrying a valve stem H, in combination with the coupling J, substantially as set forth. 3rd. In a faucet, the combination, with the valve shell A provided with a diaphragm D, plug F, stuffing box G, valve stem H, valve I and coupling J, substantially as and for the purposes described.

No. 20,116. Fastening for Boots, Gloves, &c.*(Fermeoir pour Bottines, Gants, &c.)*

Thomas J. Johnston Toronto, Ont., 3rd September, 1884; 5 years.

Claim.—As an improved fastening, a rod C, having ratchet-shaped notches a cut in it, in combination with the button D having an eye or hole through its shank, arranged substantially as and for the purpose specified.

No. 20,117. Middlings Purifier.*(Epurateur des Gruaux.)*

The Knickerbocker Company, (assignee of Orville M. Morse,) Jackson, Mich., U. S., 3rd September, 1884; 5 years.

Claim.—1st. In a middlings purifier, the combination, with an inclined screen composed of sections having different degrees of fineness, arranged side by side, an elevator whereby the material escaping from the lower end of the screen is returned to its upper end, means whereby the material is caused to move laterally across the screen from the fine to the coarse sections, and an air trunk and fan, whereby an air current is directed upwardly through the screen,

substantially as set forth. 2nd. In a middlings purifier, the combination, with an inclined screen, an air trunk and fan, whereby an air current is directed upwardly through the screen, an elevator whereby the material escaping from the lower end of the screen is returned to its upper end, means whereby a lateral motion across the screen is imparted to the material, and a cleaner operating to keep the sieve open, substantially as set forth. 3rd. In a middlings purifier, the combination, with an inclined screen composed of sections of different degrees of fineness arranged side by side, an elevator whereby the material escaping from the lower end of the screen is returned to its upper end, an air trunk and fan, whereby air currents are directed upwardly through the screen, and means whereby the force of the air currents, which pass through the different sections of the screen, can be regulated, substantially as set forth. 4th. In a middlings purifier, the combination, with an inclined screen composed of sections of different degrees of fineness arranged side by side, an elevator whereby the material escaping from the lower end of the screen is returned to its upper end, a fan whereby air currents are caused to pass upwardly through the screen, and a divided air trunk having adjusting devices for regulating the force of the air currents through the different sections of the screen, substantially as set forth.

No. 20,118. Winding Stem for Watches.*(Remontoir pour Montres.)*

The Brooklyn Watch Case Company, (assignee of James J. Wood,) Brooklyn, N. Y., U. S., 3rd September, 1884; 5 years.

Claim.—1st. In a stem-winding mechanism for watches, the combination of a sliding and rotating stem and a sleeve seated within the pendant, and formed with a grooved, enlarged or shouldered portion for retaining it within the pendant, and with a portion made springy or resilient for clutching the stem and holding it in any desired position, substantially as described. 2nd. In a stem winding mechanism for watches, the combination of a pendant, a winding stem passing therethrough, a friction sleeve within the pendant having a grooved, enlarged or shouldered head, a pin passing through the side of the pendant and taking therein for securing the friction sleeve within the pendant, whereby the stem may be held by the sleeve in or out of engagement with the winding gear of a movement, substantially as described. 3rd. In a stem-winding attachment for watches, the combination of the winding stem having a shoulder at its inner end, and tapering thence to its outer end, a crown-piece attached thereto, and a friction sleeve thereon, having a groove in which takes a pin or screw passing through the pendant, substantially as described.

No. 20,119. Button and Button-Fastener.*(Bouton et Queue de Bouton.)*

The Patent Button Company, Waterbury, Ct., (assignee of Thomas Porter, Montclair, N. J.) U. S., 3rd September, 1884; 5 years.

Claim.—1st. The combination of a headed fastening device provided with two or more sharpened prongs, consisting of vertical sections of a hollow cylinder, with curved cross sections, and a solid faced button or rivet head with an upsetting device within the shell of the same, as and for the purpose described. 2nd. In combination, a solid faced button or rivet head having an interior upsetting device, with a metal fastener having two or more sharpened prongs consisting of vertical sections of a hollow cylinder with curved cross sections, a head and a space or throat d, as and for the purpose described.

No. 20,120. Flexible Abrasive and Polishing Disk. (Disque Flexible pour Frotter et Polir.)

John W. Smith, Newport, R. I., U. S., 3rd September, 1884; 5 years.

Claim.—1st. A disk of paper, cloth, leather, rubber or other flexible material having on one side, at or near the margin, an annular surface coated with an abrasive and polishing substance, substantially as provided. 2nd. A disk of paper, cloth, leather, rubber or other flexible material, having cemented to one side a ring of paper, cloth, leather, rubber or other flexible material, provided with an abrasive and polishing substance, all substantially as set forth.

No. 20,121. Rotary Motor and Pump.*(Moteur et Pompe Rotatoires.)*

George Lenhardt, Detroit, Mich., U. S., 3rd September, 1884; 5 years.

Claim.—1st. The combination of the revolving cylinder I, piston J, grooved track N and rod c, provided with offset e and a friction roller travelling in the grooved track, whereby the pressure is exerted in a straight line, substantially as described. 2nd. In a combined rotary pump and motor provided with reciprocating pistons J, and track N having a grooved channel O, the combination of the piston rods detachably connected at right angles thereto and carrying an anti-friction roller b constructed to enter said channel O, all combined, arranged and operating as specified. 3rd. In a rotary pump, the combination, with the cylinder I piston J and suitable means for the reciprocating said piston, of the guide S working in an eye in the projection s, whereby the piston J is guided in its movement, substantially as described. 4th. In a combined rotary pump and motor provided with reciprocating pistons, as J, the rigid track M having a channel O, and the piston rods c, each having an offset e and carrying a friction roller adapted to travel in said channel, and constructed to be detachably connected with said pistons, substantially as and for the purposes set forth. 5th. The combination, with suitable cylinders J, a conically-apertured hub H and the fixed conical spindle A, of the shell or casing AT provided with bearings and suitable outlet pipe, substantially as shown and described. 6th. In a motor and in combination with the hollow conical spindle A and a conically-apertured hub H rotated thereon, and cylinders secured to said hub and provided with pistons and piston-rods, substantially as described,