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INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years. The term of years for which the fees have been paid, is given after the date of the patent.

No. 18,604. Elastic Sections, Gussets and Gores for Corsets, &c. (*Sections, Goussets et Pointes Elastiques pour les Corsets, &c.*)

William R. Hardy, Toronto, Ont., 30th January, 1884; 5 years.

Claim.—1st. Elastic section, gore or gusset, composed of a covering material having tubes in groups or regular series extending to the edges of the covering material, spirally-coiled wire springs extending through the tubes, the ends of the springs bent to alignment parallel to the side edges of the covering material, a wire or cord inserted through the bent ends of the springs, and one or more coils of the springs near the side edges of the covering material elongated or straightened, substantially as described and shown. 2nd. An elastic section, gore or gusset, composed of a covering material having parallel tubes, spirally-coiled wire springs inserted through the tubes, the ends of the springs projecting from the ends of the tubes and secured to or bent around a wire or cord parallel to the side edges of the covering material, substantially as described and shown. 3rd. An elastic section, gore or gusset, composed of a covering material having parallel rows of stitches separating spirally-coiled wire cords transversely to the length of the springs, and along the side edges of the covering material, substantially as described and shown.

No. 18,605. Grate. (*Grille.*)

James C. Jones, Chicago, Ill., U. S., 30th January, 1884; 5 years.

Claim.—1st. A grate composed of bars journalled or pivoted in different planes, substantially as shown. 2nd. A grate composed of a series of bars, a portion of which shall have a differential movement in relation to the other bars of the series, substantially as and for the purpose set forth.

No. 18,606. Cabinet for Watch Crystals. (*Buffet pour les Verres de Montres.*)

Creet H. Daugherty, Fremont, Ind., U. S., 4th February, 1884; 5 years.

Claim.—1st. The combination, in a cabinet, of a number of drawers, and each drawer provided with a wheel or revolving part which has recesses formed in its edge, for the purpose of holding watch glasses or crystals, substantially as shown. 2nd. The combination of a drawer provided with cross-pieces, with a revolving wheel having recesses in its edge to receive articles of different sizes, substantially as described. 3rd. The combination of a drawer provided with cross-pieces, with a revolving wheel provided with recesses in its edge, and a spring-snap for holding the wheel in position, substantially as set forth. 4th. The combination of a drawer with a revolving wheel having recesses of different sizes made in its edges, with a second smaller wheel which is placed in the middle of the larger wheel, the smaller wheel also having recesses formed in its edges, substantially as specified.

No. 18,607. Car-Coupling. (*Accouplage de Chars.*)

Michael J. Dougherty, Carbondale, Penn., U. S., 4th February, 1884; 5 years.

Claim.—In a car-coupling, the combination, with a pin-supporting bar E, of the lever C and standard D, slotted at D' and having shoulder E, as and for the purpose specified.

No. 18,608. Bush Box for Spindles.

(*Coussinet pour Broches de Filature.*)

Henry Heard, Greensborough, Ga., U. S., 4th February, 1884; 5 years.

Claim.—1st. In a bush-bearing, the combination of the outer box, the bushing sliding in the box and provided with a conical bearing-face, and the sleeve secured to the spindle and having a collar with a bearing-face coinciding with that of the bushing, as set forth. 2nd. The combination of the box K, bushing B having a bearing-face sleeve E secured to the spindle and provided with a collar f and flange e, and ring F secured within the bushing, substantially as set forth. 3rd. The combination, with the casing ring F, sleeve E having a flange e and bushing, of an adjusting sleeve I for temporarily holding the bushing, substantially as set forth. 4th. The improved bush box for spindles, constructed as and for the purpose herein set forth.

No. 18,609. Machine for Making Fences.

(*Machine pour faire les Clôtures.*)

Charles A. Everett, St. John, N. B., 4th February, 1884; 10 years.

Claim.—1st. In a machine for manufacturing a woven fence, the combination of the driving wheel B with the gear wheels C, C, C, C giving motion to the wire twister, as shown and described. 2nd. In a machine for manufacturing woven fence, the stop V stopping the motion of the driving wheel B, as shown and described. 3rd. In the combination of the lever R with the spacing pins P and the guide frame S, for operating the spacing pins in the manner and for the purpose described. 4th. The combination of the spoke wheel Y with the cog wheel attached to the fence reel D, for operating the fence reel, as shown and described. 5th. The arrangement of the rubber springs with the tension plates H, for regulating the tension in the manner and for the purpose specified.

No. 18,610. Pump. (*Pompe.*)

Frank G. Cornell, Grand Rapids, Mich., U. S., 4th February, 1884; 5 years.

Claim.—The forcing chamber B having the tubular parts connecting to the discharge pipes, and the part 8 in line with the piston-rod, in combination with the said discharge pipes, the pipe extending into the well, with the piston-rod and with the aligning and sustaining rods f, f connected to the platform, substantially as described.

No. 18,611. Road Vehicle. (*Voiture routière.*)

John B. Armstrong, Guelph, Ont., 4th February, 1884; 5 years.

Claim.—1st. In road vehicles provided with shafts or pole, curved elastic steel draw-bars rigidly secured to the end of the shafts or pole, and hinged or otherwise flexibly connected to the front axle of the vehicle. 2nd. In road vehicles provided with shafts or pole, curved steel draw-bars rigidly secured to the end of the shafts or pole and tapered towards their rear ends, where they are hinged or otherwise flexibly connected to the front axle of the vehicle. 3rd. In road vehicles provided with shafts or pole, curved elastic steel bars rigidly secured to the end of the shafts or pole and having, at their other end, draw pins set at right angles to the bars and arranged to fit into draw-jacks attached to the front axle of the vehicle. 4th. In road vehicles provided with shafts or pole, curved elastic steel draw-bars rigidly secured to the end of the shafts or pole and having, at their other end, tapered draw-pins set at right angles to the bars, in combination with draw-jacks having tapered holes to receive the draw-pins, and rigidly secured to the front axle in such a position that the edges of the draw-bars will be close to either the inner or outer edges of the draw-jacks, when the draw-pins have been sprung into the holes through the draw-jacks, substantially as specified. 5th. In road vehicles provided with a metal front axle, a draw jack connected to the said axle by a pin and secured in position by screw bolts, one on either side of the axles, and passing through a plate situated on the side of the axle opposite to that upon which the draw-jack is situated. 6th. In road vehicles in which the shafts are connected to the front axle by curved elastic steel draw-bars, a metal cross-bar connecting the shafts at the point where the draw-bars are fastened, in combination with a semi-circle brace secured to the draw-bars and cross-bar by reinforced holes, and forming a rigid brace at the jun-