

formed in the inner end of the head of the shank and alternating with said channels and adapted to contain said lugs, substantially as set forth.

### No. 25,118. Knob Attachment.

(*Broche de Bouton de Porte.*)

Williston I. Alvord, Bridgeport, Conn., U. S., 13th October, 1886; 5 years.

*Claim.*—1st. In combination with a latch hub, recessed as shown, the knob shank terminating in heads adapted to be inserted within the hub and held there against retraction, and a coil spring interposed between the shanks and adapted to keep the latter apart and in attachment with the hub substantially as set forth. 2nd. The shanks A having openings C and terminating in heads B, in combination with hub D recessed to accommodate said heads, and the coil spring E interposed between said shanks within said openings, as specified.

### No. 25,119. Lock and Latch. (*Serrure et Loquet.*)

Williston I. Alvord, Bridgeport, Conn., U. S., 14th October, 1886; 5 years.

*Claim.*—In combination with a latch or bolt, a shell capable of motion around a centre, and detachably connected to the shank of the latch or bolt, spring actuated tumblers arranged within said shell, and extending laterally beyond the sides thereof, and means, as a stop, with which the extremities of the tumblers may engage, whereby the movement of the shell may be arrested at certain times, substantially as set forth.

### No. 25,120. Harvester Binder.

(*Moissonneuse-Lieuse.*)

Thomas H. Noxon, Ingersoll, Ont., 14th October, 1886; 6 years.

*Claim.*—1st. The combination, with the canvas A and elevating canvas or table B, of a revolving roller C located between the two, substantially as and for the purpose specified. 2nd. The combination, with the canvas A and elevating canvas or table B, of a revolving roller C located between the two, and fingers D attached to the cross-bar E and fitting into grooves a, substantially as and for the purpose specified. 3rd. The combination, with the canvas A and elevating canvas or table B, of a revolving roller C located between the two, having longitudinal ribs d formed on its surface, substantially as and for the purpose specified.

### No. 25,121. Waggon Carriage, etc.

(*Waggon, Voiture, etc.*)

Edward Storm, Poughkeepsie, N. Y., U. S., 14th October, 1886; 5 years.

*Claim.*—1st. The combination, with the axle, of a waggon or other vehicle, and a body or side bars supporting a body of a spring supported by the axle composed of two sections hinged together, and severally having a central flat portion and straight inclined end portions, and another spring considerably longer than the spring first mentioned, having a central flat portion and upwardly-inclined end portions, the flat central portions of one of the sections of the spring first mentioned being secured to the flat central portion of the spring last mentioned, said springs extending transversely to the length of the body of the waggon or other vehicle, substantially as specified. 2nd. The combination, with an axle in a waggon or other vehicle, and a body or side bars supporting a body of a spring supported by the axle and comprising two sections hinged together at their ends, having central flat portions, and inclined converging end portions which extend into contact or close proximity near their ends, and another spring considerably longer than the spring first mentioned and secured to the former, substantially as specified, whereby the spring last mentioned will take up the initial force, and as force is increased, the portions of the two sections of the spring first mentioned, which are near the ends thereof, will be brought into contact increasing proportionally with the force applied to the spring, in such manner that the spring first mentioned will be shortened and its resistance to strain augmented.

### No. 25,122. Plough. (*Charrue.*)

Johnston Pettigrew, Seneca, Ont., 14th October, 1886; 5 years.

*Claim.*—1st. A plough, having horizontal corrugations formed on its mould-board and land side. 2nd. A plough having horizontal corrugations formed on its mould board, by adjustable steel ribs embedded in its surface, substantially as and for the purpose specified. 3rd. In a plough, a mould board having a portion of its land side removed, in combination with the land side wheel B, having a bevelled rim a, and a bevelled and hollowed centre b. 4th. In a plough, a mould-board having a portion of its land-side removed, in combination with the land-side wheel B, constructed as described, and a vertical roller D inserted in front of the wheel B. 5th. In a plough, a mould-board having a portion of its land-side removed, and a wheel B placed in front thereof, in combination with the shield C, substantially as and for the purpose specified. 6th. In a plough, the combination of a wheel H, formed by bevelled rim a and bevelled hollowed centre b, the said wheel being pivoted on the vertical standard I, which projects below the centre of the wheel and fits into a vertical bracket J attached to the frame G, substantially as and for the purpose specified. 7th. In a plough, the combination of a leading wheel L having a sharpened flange and pivoted upon the standard M, which is adjustably connected to the bracket N, substantially as and for the purpose specified. 8th. In a plough, the combination of a frame G, arranged to support the wheel H in such a manner that the said wheel may be moved nearer to or farther from the plough-beam F, substantially as and for the purpose specified. 9th. In a plough, the combination of a frame G fixed to the front of the plough-beam B, braced thereon by the stays U, and provided with an adjustable cross-bar A, substantially as and for the purpose specified.

### No. 25,123. Baby Jumper. (*Escarpolette.*)

Mary P. Norman, St. Lambert, Que., 14th October, 1886; 5 years.

*Claim.*—1st. In a baby-jumper, a baby's dress fastened to the jumper, and provided with a crutch cloth attached to the dress, as shown and described. 2nd. In a baby-jumper, the sling f and g, in combination with a baby's dress, and the hoop d provided with bells or other ornaments, as shown and described. 3rd. The combination, in a baby-jumper, of the chain C, elastic b and slings f and g, as shown and described.

### No. 25,124. Car Starter. (*Appareil de Mise en Mouvement des Chars.*)

Rudolf O. Gerecke, Augusta, Ga., U. S., 14th October, 1886; 5 years.

*Claim.*—In a car-starter, the combination of the wheel having its flange toothed to form a ratchet, with the lever E pivoted between its ends, provided with the pedal G at one end, and the pawl H pivoted to the opposite end, and pins at opposite sides of the pawl for holding it in a proper position, substantially as set forth.

### No. 25,125. Hub and Box Fastening.

(*Ferrure de Moyen et de Boîte de Roue.*)

Andrew W. Lano, Susanville, Cal., U. S., 15th October, 1886; 5 years.

*Claim.*—1st. The hub A having conical sockets f, h at its opposite ends, the box C formed with the collar e resting in the socket f, the conical collar g formed of a series of longitudinally divided sections, and the bolts i, one for each section of the collar extending longitudinally through the hub into the said sections, substantially as set forth. 2nd. The hub A having conical sockets f, h at its opposite ends, the box C formed with the collar e resting in the socket f, the outer face of the collar having grooves registering with grooves in the walls of the said socket f, the collar at the opposite end of the box in the socket h, and bolts extending through the grooves in the collar e and socket into the opposite collar, substantially as set forth. 3rd. The hub A formed in two sections, each having a flange B connected by bolts d, conical sockets f, h, the box C having a collar e in the socket f, longitudinal apertures between the socket and collar, the sectional collar g in the socket h, and the bolts i passed through said apertures and hub into the sections of the collar g, whereby the bolts i will assist in holding the hub and collars together, and also prevent the box from turning in the socket f, substantially as set forth.

### No. 25,126. Fifth Wheel. (*Rond d'Avant-Train.*)

Edward, Storm, Poughkeepsie, N. Y., U. S., 15th October, 1886; 5 years.

*Claim.*—In a fifth-wheel, the combination of two circular parts fitted together one upon the other, guides made integral with one and extending therefrom, and embracing the other, transversely to its length, screws or like devices passing through the guides to secure the two circular parts together, springs arranged within recesses in the guides against which these securing devices act at one end, and a loose plate below the guides supported by the securing devices, substantially as specified.

### No. 25,127. Forge. (*Forge.*)

Ophny L. Galoury, St. Placide, Que., 15th October, 1886; 5 years.

*Claim.*—1st. The chamber E set in the hearth B, and having in it the spout h, substantially as shown and described. 2nd. The chamber E having the extension I, and the sleeve g fixed therein, substantially as shown and described and for the purpose set forth. 3rd. The vat J connected by the flow-pipe J, and the return-pipe k with the chamber E, substantially as shown and described and for the purpose set forth.

### No. 25,128. Draft Equalizer.

(*Régulateur du Tirage.*)

Alanson B. Griswold, Bunker Hill, Es., U. S., 15th October, 1886; 5 years.

*Claim.*—The combination of the tongue, the lever E pivoted thereon, the double-rope with the lever I and the three connecting rods J, L, substantially as shown and described.

### No. 25,129. Bed Bottom. (*Sommier de Lit.*)

George A. Miller, Toronto, Ont., 15th October, 1886; 5 years.

*Claim.*—1st. A bed composed of a case formed by sides A joined to the bottom B, and a pliable sheet C fastened to it, in combination with the bellows H connected to the bottom B, and arranged for the purpose of inflating the said case, substantially as and for the purpose specified. 2nd. In combination, with a case, constructed as described, the bellows H located in the chamber I, and communicating with the interior of the case through the pipe b, in combination with the cock d, bell-crank e, spring f, and cord g, substantially as and for the purpose specified. 3rd. In connection with a case, constructed as described, a bellows H located in the chamber I communicating with the interior of the case to a pipe b, in combination with a cock d, bell-crank e, spring f, cord g, alloy h and strap J, substantially as and for the purpose specified. 4th. A bed composed of a case formed by sides A joined to the bottom B, and a pliable sheet C fastened to it, in combination with bellows H connected to the bottom B, and arranged for the purpose of inflating said case and relief valve K, substantially as and for the purpose specified. 5th. A case formed by sides A joined to the bottom B, and a pliable sheet C fastened to it, in combination with a bellows H provided with a pipe b leading into the case, a valve L placed over the mouth of the pipe, substantially as and for the purpose specified.