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INVENTIONS PATENTED.

No. 1645. WILLIAM S. MEAD, New York, U.S., 17th October, 1872 for 5 years: "A Sewing (Une Machine à coudre.)

Machine." (Une Machine à coudre.)

Claim.—1st. The rotary hook Y, and thumb and finger mechanism whereby the loop is clongated and the thread crossed to receive the descending needle in the formation of a chain and a spiral stitch; 2nd. The two eccentries B. B. on the main shaft A, whereby one raises and the other moves the feed forward; 3rd. Providing the shuttle case F, with a lower bar G. to rest the shuttle; 4th. The employment of a lever H, and springs I, and L. for operating the thumb and finger mechanism: 5th. The oval egg form of sweep given to the hook Y, in clongating, relinquishing and seizing the foot, in making a spiral stitch when the thread is in the shuttle, by the hook Y, after taking up the loop from the needle, casting it over the under part of the shuttle, and then seizing the succeeding loop from the needle and drawing up the first loop into the cloth. 7th. The adjustment of the thread by passing it backward through the eye d, backward around the disc c, forward through the ope d, and thence to the needle bar c, and needle for securing the "take up" and for tightening the threau when the hook is at the bottom of the shuttle; 8th The employment of a rotary washer g, as set forth.

On 1616. CHARLES H. PARSHALLE Details.

No. 1646. CHARLES II. LABORATIO, Mich., U. S., 17th October, 1872, for 15 years: (Un graisseur.)

"A Lubricator." (Un graisseur.)

A mechanical apparatus for feeding oil for lubricating purposes Claim.—Ist. In an oil Cup. the combination of the concentric tubes K and L. the latter being provided with the spenings v, and gaugeable opening v. 2nd. In combination with an Oil Cup. in the hot air chamber C, when inclosing the tube D, pasked at d.d. and provided with duets f; and 3rd. the combination of the cup B, provided with faucet M, and stein G, provided with duets J J, scrow valve I, tube L, and with or without the concentric tube K.

No. 1647. Thos. O. WARD, Kalamazoo, Mich., U.S., 17th October, 1872, for 5 years: "A Railway Brake." (Un frein de chemin de fer.)

HallWay Brake. (United the Chemin de fer is Brake worked by compressed air from a reservoir on locomotive connected by pipes and valves with railway cars, which Engineer is onabled to apply or disconnect instantaneously. Also acts automatically when a car becomes detached from train.

Claim.—Ist. The valve D, with the chamber F, chamber G, head P, seat F, and ball E, arranged to operate in connection with the air pump A; 2nd. The reservoir I, in connection with pipes Y, and Z, arranged with stop cock in each; 3rd. The automatic closing railro coupling K, spring O, with rubber packing R, acting in combination; 4th. Cylinder U in combination with spiral spring Dipiston head Al, with piston rod Bi, stop cock Cil, in pipe T, also pipe d; 5th. The arrangement of the air pump A, cylinder U, spiral spring Di, pipes Z, Y, T, d, stop cock L, Ci, Si, Cil and I, and valves D and II, and piston rod and piston B, Bi, hose M, N.

CYRUS WELLINGTON SALADEE, St. Catharines, Ont., 17th October, 1872, for 5 years: "A Gate." (Une barrière.)

A Gate hanging on pertable post swinging both ways, self-locking, and capable of being adjusted at any heigh, from the ground.

Claim.—1st. The portable post B: 2nd. The adjustable brace H. in combination with the brace lock I, and 3rd. the combination of the portable post B. arms E. lever E, and intermediate post D, in connection with the main body of the Gate.

No. 1649. CYRUS W. SALADEE, St. Catharines, Ont., 17th October, 1872, for 5 years: "A door and gate spring." (Un ressort de porte et de barrière.)

A round rod or spring of steel of appropriate length and thickness is so arranged in combination with a bracket and two arms that the torsional action of same closes door or gate.

Claim.—The combination of the bearing D, arms A, and B, Brackets C, and H, with the torsional spring F, as described.

No. 1650. CYRUS W. SALADEE, St. Catharines, Ont., 17th October, 1872, for 5 years: "Springs for Vehicles." (Des ressorts de voitures.)

One or more equalizing shafts are so applied and operated in connection with torsional springs as to compel them to act in unison so as to prevent sufe motion or undue strain, and to gain a greater

as to prevent side motion or undue strain, and to gain a greater degree of central vibratory motion.

Claim.—Ist. In combination with Torsional Springs in the equalizing shafts B and B. 2nd. Supporting and operating the lever ends of torsional springs in or upon the outer ends of oscillating cranks C. 3rd. The arrangement of torsional springs A in pairs so that their bearings J, shall be or a parallel line with the edges of the bed plate. 4th Securing the squared ends I of the springs A, in position by means of the series nats O, and 5th. Forming the lever arms of torsional springs in the shipe of a half circle and securing the outer ends of the same in their bearings by screw-nuts F.

CYRUS W. SALADEE, St. Catharines, Ont., 17th October, 1872, for 5 years: "Springs for Vehicles." (Des ressorts de voitures.)

Of Venices. (Des resours are formers, ordered, o

No. 1652. JOHN B. ARMSTRONG, Guelph, Ont., 17th October, 1872, for 5 years: "Improve-ments in Carriages." (Perfectionnements dans les Voitures.)

Claim.—The making of carriage springs with the solid tits or raised parts A, A, also putting the nut or washer ('chouldered on the end of the king bolt) on the top of the head block plate I) and sinking the same into the wood on the under side of the head block F, as

specified.

No. 1653. James Collins, Guelph, Ont., 17th October, 1872, for 5 years: "Improvements on Harvest Rakes." (Perfectionnements aux

Harvest Rakes. (Perfection mements aux rateaux à grains.)

Claim.—1st. The combination of the rake-head F, the upwardly inclined slotted rake-arm F2, the swivel joint G. the bracket B1, the continuously revolving arm C1 and the vertical rod C2, that passee through the slot f, in the rake-arm F2, and serves to operate it; 2nd. The combination of two rake-head F, the slotted rake-arm F2, the bracket B1, the revolving rod C2, and the adjustable collar c1 on the rod C2 for regulating the height that the rake-head s lifted above the platform 3rd, the combination of the rake-head F, the rake-arm F2, the hinge plate G, the bracket plate B1, provided with means foradjusting the hinge plate G, and rake-arm F2, relatively to the finger beam, and the revolving crank-arm c1, for operating the rake, 4th. The combination of the bracket B1, the inclined rake-arm F2, pivoted to the bracket B1, the rake-head F, the friction roller f and the guide plate H.