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INVENTIONS PATENTED.

No. 3811. PHILIP MUTTER and THOMAS EVANS, Hamilton, Ont., 31st August, 1874, for 5 years: "Car-Coupling." (Attelage de wagons).

Claim.—The moveable catch-block B, hinged to the bunter-head A, by the pin P in combination with the open top bunter and shuttle shaped hook E, the block B, and bunter provided with a hole G, for a link pin, and the device operated by the levers C, and F, or their equivalents, for uncoupling, as specified.

No. 3812. JOHN MCFARLANE, Otterville, Ont. 12th September, 1874. (Reissue of Patent No. 2838, Canada): "A Carriage Spring." (Un ressort de voiture.)

Claim.—1st. A single plate or leaf spring made of cast steel; 2nd. Tapering the main plate C, of a plate or leaf spring from or near the point of attachment A, to the point of connection B, as described.

No. 3813. OSCAR C. HILLS, and GEORGE OLDHAM, Jr., Cuba, N. Y., U. S., 16th September, 1874, for 5 years: "Curtain Fixture." (Ajustage de rideaux.)

Claim.—1st. The combination of the spool A, with notched journal a, and blades E, E; 2nd. The ear or bearing B, with the lever D, connected, all to be worked by the cord as set forth.

No. 3814. ROBERT ADAM, and FRANÇOIS X. DESMARAIS, Ottawa, Ont., 16th September, 1874, for 5 years: "Mode of Fastening Sheet Metal Roofing." (Manière d'agraffer les feuilles de métal à toiture.)

Réclame.—1er. Le rabattement d'un des angles des baguettes D, E, G, et H, et d'un segment de la baguette ronde M; 2me. La combinaison des angles de dépression L, L, ou replis des feuilles de métal au dessous des baguettes, avec les baguettes à angles rabattus, tel que décrit.

Claim.—1st. The bevelling of one of the angles of the beads D, E, G, and H, and of one segment of the round head M; 2nd. The combination of the angles of depression L, L, or folds of the sheet below the beads, with the beads at bevelled angles as described.

No. 3815. THOMAS I. BROWNE, Inverness, Que., 16th September, 1874, for 5 years: "Self Railway Car-coupling." (Attelage automatique des voitures de chemins de fer.)

Claim.—1st. The coupling beams B, having a guiding slit F, at their furthest end, a middle angle slit F, with a guard bolt G, at their middle and jawed heads I, as set forth; 2nd. The combination of the rectangular levers C, with the coupling beams B, as set forth; 3rd. The combination of an ordinary

brake L, with the loose collar O, and the fixed collar W, having a pin Q, to pin them together as set forth; 4th. The combination of the chain S, tied to the collars O, with the lever C, in order to work the said lever as set forth.

No. 3816. JOSEPH CONNOLLY, and ELIJAH W. BENJAMIN, Yarker, Ont., 19th September 1874, for 5 years: "Improvement in Gang Ploughs." (Perfectionnement des charrues à socs multiples.)

Claim.—1st. The arrangement of the ratchet A; 2nd. The arrangement of the lever b, connecting rods d and g, in combination with crank c and crank n, in the manner specified.

No. 3817. CHARLES E. PATRIC, Springfield, Ohio, U. S., 21st September, 1874. (Reissue of Patent No. 238, N. B.): "Grain and Seed Drill." (Semoir-traceur pour les grains et les graines.)

Claim.—1st The tube f, constructed as described, arranged to operate with a ground tube g, in various positions; 2nd. The spouts c, in combination with the flexible conductors f, and ground tubes g; 3rd. The ground tubes g, draw-bars k, bars m, locking-stud n, pivots 1, 2 and 3, and spiral or other springs o; 4th. The locking stud n, bars m, and bosses or stops p, in combination with the open or divided dr. w-bar k, operating as set forth; 5th. The ground tubes g, in combination with the chains h, and roller i.

No. 3818. AZA O DENIO, and GEORGE G. LOBDELL, Wilmington, Del., U. S., 21st September, 1874, for 5 years: "Improvements on Locomotive and other Boilers and Furnaces." (Perfectionnements aux chaudières et aux fourneaux des locomotives et autres.)

Claim.—1st. A system of vanes a, placed within the smoke box of a boiler between the tube sheet and exhaust nozzles; 2nd. The vanes a, arranged in the manner described at such an angle as to direct the products of combustion to a central point in the smoke box; 3rd. The combination of the frames D, D, and their vanes a, cross bars G, lever H, and mechanism for operating the vanes simultaneously through the said lever, 4th. The combination described with a locomotive ash pan of a nozzle or nozzles directed to the pan, attached to the boiler and to a neck communicating with the water space of the boiler. 5th. The described grate bar, having journals or trunnions g, situated in respect to the top p, of the bar; 6th. The combination in a grate bar of deflectors or vanes u, with the openings v, in the top of the bar.

No. 3819. JOHN H. COOPER, Rotherby, THOMAS A. W. CLARKE, ALFRED R. DONISTHORPE, and EDWIN CORAP, Leicester, Eng., 21st September, 1874, for 5 years: "Knitting Machine." (Machine à tricoter.)

Claim.—1st. The combined arrangement of apparatus for producing fashioned tubular hosiery goods, 2nd. The employment of a continuous series of sliding needles a, ranged either in a parallelogram or figure of other form to produce fashioned tubular hosiery, there being two parallel rows of needles a, with an end needle or needles b, capable of being moved between them wherever the fashioning is to take place, 3rd. The employment of parallel rows of vertical sliding needles a, together with a thread eye m, travelling continuously around them to produce tubular work. 4th. The employment of two or more notched discs r, revolving at different speeds to control the action of a pawl t, upon a ratchet wheel u, for governing the fashioning of work in knitting machines.