wheel, on either side of the head-plate, and a projection cast on the centre of the head-plate to fit into the socket on the bed-plate. 4th. In a buggy or other vehicle, a malleable iron fifth-wheel, the upper half In a puggy or other venicle, a malleable iron fifth-wheel, the upper half of which has cast on it a metal reach projecting beyond the circum-ference of the wheel, and a lug cast on the outer surface of the wheel opposite to, but on a line with the reach, in combination with a stay rod, one end of which is fastened to the reach and the other end to the lug on the opposite side of the wheel, the said rod being bent so as to pass round the axle-plate, passing over a bolt projecting from the bottom of the said plate at the centre of the fifth-wheel.

No. 16,837. Improvement in Spark-Arresters. (Perfectionnement des arrête-flammeches.)

Robert Brayton, David June and Oratus S. French. Trémont, Ohio, U. S., 11th May, 1883; (extension of Patent No. 8788.)

No. 16,838. Improvements on Sounding Apparatus. (Perfectionnements aux appareils de sondage.)

Joseph Léveillé, Montreal, Que., 11th May, 1883; (extension of Pa-tent No. 8774.)

No. 16,839. Improvements on Horse Rakes. (Perfectionnements aux râteaux à cheval.)

William H. Hall, Tiffin, Ohio, U. S., 11th May, 1883 ; for 5 years.

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thereon. a foot lever pivoted to the thill-frame and connected with said sliding rods, whereby the lever on the rake-head may be moved to cause the engagement of the clutching devices, and a spring mounted upon the rake-head and pressing against the heel extension from the lever thereon, to restore it to its normal position and throw the clutch-ing devices out of engagement. Ilth. The combination of the oscilla-ting rake-head, the draft wheels, the spur-gears upon the hubs of said wheels, the idle revolving spur-pinions meshing with said gears and supported by boxes on the rake-head, and shields or guards fixed to said boxes and covering or protecting the spur-gears and pinions.

No. 16,840. Machine for Peeling Potatoes. (Machine à peler les patates.)

Joseph A. Moffat, Hamilton, Ont., 11th May, 1883; for 5 years.

Joseph A. Moffat, Hamilton, Ont., 11th May, 1883: for 5 years. Claim.—1st. A potato-peeling machine in which the potato is held on a stationary fork, and the knife for peeling it is connected with a frame pivoted upon the spindle of the fork, the said knife being so sup-ported that it will automatically traverse the surface of the potato upon the frame being caused to revolve upon its centre. 2nd. In a potato-peeling machine in which the potato is held on a stationary fork, the frame C journalled on the spindle of said fork and provided with the lugs H in which the vertical screw (6 is journalled, in combination with the knife-holding frame I arranged to carry the knife-holder and having pivoted upon it an arm K with a half nut cut in it to fit against the screw. 3rd. In a potato-peeling machine in which the potato is held on a stationary fork, the knife-holder M having fixed to one of its ends a curved knife 0 and pivoted at its other end to a vertically adjustable frame I, in combination with a spring H arranged to force the knife against the potato. 4th. The knife-holder M pivoted to the frame I and provided with a tail piece M₁ in combination with the arm K also pivoted to the frame I and having a half nut formed in it. 5th. The frame I having pivoted upon it the knife-holder M and be-ing held to the frame C by the cross-head J fitting on to the guide;, and by the screw G. 6th. The frame C pivoted on the spindle B of the fork D and having a half nut formed on it and arranged to come in contact with the stand A arranged to hold the spindle B stationary while the frame C arevoves around it. No. 16.841. Immrovements on Fire-Escapes.

No. 16,841. Improvements on Fire-Escapes. (Perfectionnements aux sauveteurs d'incendie.)

Robert A. Bush, Brockville, Ont., 11th May, 1883; for 5 years.

Claim.—A fire-escape, constructed of a flexible ladder E, one end attached to a spool D to roll thereon, and the other end secured to racks C cattachable to the sill of a window to suspend the ladder when unrolled, and to carry the spool when the ladder is wound thereon.

No. 16,842. Improvements on Wheelbarrows. (Perfectionnements aux brouettes.)

Peter Allard, Sherbrooke, Que., 11th May, 1883 ; for 5 years.

Claim.—The handles and frame being constructed in one continued length A A with the guard C, the mallcable iron wheel D, the circular brace G and the straight brace F.

No. 16,843. Improvements on Bag Fasteners. (Perfectionnements aux attaches des sacs.)

Walter G. Fraser, Campbellford, Ont., 11th May, 1883; for 5 years. (laim.-A bag fastener plate A having flanges B B and slots C C, pin F, strap E, secured to plate by washer E, and pins D D.

No. 16,844. Improvements on Self-Closing Taps. (Perfectionnements aux robinets automatiques.)

Francis Hyde, Toronto, Ont., 11th May, 1883; for 5 years.

Francis Hyde, foronco, ont., fith May, 1885; for 5 years. C(ain.-Ist. A self-closing tap A constructed with an upwardlyclosing valve h, a stem b and seat h; with metallic washer h2, button $<math>\alpha$, gland α and spiral spring d. 2nd. A percussion chamber B con-structed with a compression ball o placed in the chamber proper m, and cover n. 3rd. A self-closing tap A, in combination with a per-cussion chamber B attached to the tap. 4th. A percussion chamber B constructed with a compression ball o, in combination with the ordinary taps in common use when so required.

No. 16,845. Improvements in Ointments. (Perfectionnements dans les onguents.)

Francis McKay, Lobo, Ont., 12th May, 1883; for 5 years.

Caim.—A compound composed of the following ingredients: fresh unsaited butter, two pounds, black wool cut from the sheep's breast at the full of the moon, one ounce, three fresh eggs and flower of sul-phur, two tablespoonsfuls.

No. 16,846. Improvements in Churns. (Perfectionnements aux barattes.)

Benjamin F. Moore and Benjamin Moore, Heathcote, Ont., 12th May, 1883; for 5 years.

Claim.—In combination, the frame posts C C D D secured to base A and blocks E F, and to inclined plank G, and an elbow lever H ful-crumed to plank G and carrying pitman K, crosshead L and guide rod N sliding in a hole in blocks E F.

No. 16,847. Improvements on Truck Flangers. (Perfectionnements aux camions net-toyeurs des bourrelets de rails.)

Nicholas Watson, Summerside, P.E.I., 12th May 1883 ; for 5 years.