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**INVENTIONS PATENTED.**

**No. 16,603. Combined Cultivator and Potato-Digger.** (*Cultivateur arrache-patates.*)

Alanson Ansley, Geneva, N. Y. U. S., 31st March, 1883; for 5 years.

*Claim.*—1st. The combination of the frame A, adjustable levers C and wheels at the lower end thereof, with the digger H secured by four diverging braces to the frame, opening shares E F, series of rods I, eyes r, rods R of different lengths, chains R1 and sprawl drags S. 2nd. The sprawl drags S consisting of four or more prongs diverging from a common centre or hub, in combination with the lifting device of a potato-digger.

**No. 16,604. Apparatus for Cutting Rock.**

(*Appareil pour tailler le roc.*)

John D. Brunton, Kentish Town, Eng., 3rd April, 1888; (Extension of Patent No. 84357).

**No. 16,605. Improvements on Horse Rakes.**

(*Perfectionnements aux râteaux à cheval.*)

Elijah Glendillen, Owen Sound, Ont., 3rd April, 1883; for 10 years.

*Claim.*—1st. A horse rake having the frame, carrying the rake mechanism, detachably connected to the main or running gear frame of the machine. 2nd. In a horse rake in which the shafts are connected to, or form part of the main frame upon which the axle is journaled, the combination of a rake frame timber E bolted to the side timbers A of the main frame, and extending beyond the wheels N behind which it is situated. 3rd. In a horse rake in which one of the wheels revolves loosely on the main axle, while the other is fastened to the axle, a cog-wheel M fastened to the axle, in combination with the rack bar L arranged to gear with the said cog-wheel and connected to the staple bar. 4th. In a horse rake in which the rake is dumped by a cog-wheel acting on a rack bar, the combination of a hand lever to throw the rack bar in and out of gear, with the actuating cog-wheel. 5th. A rake head having V-shaped grooves cut in it, in combination with rake teeth having curled ends to fit into the V-shaped grooves. 6th. The combination of cleaner bars so situated and shaped that, while the rake teeth pass beyond their bottom edge, for the purpose of being cleared of the hay, the said teeth cannot extend above the top edge of the cleaner bars.

**No. 16,606. Shingle Mill.** (*Machine à bardeau.*)

Isaie Fréchette, St. Hyacinthe, Que., 3rd April, 1883; (Extension of Patent No. 2,239.)

**No. 16,607. Improvements in Freight Cars.**

(*Perfectionnements aux churs à marchandises.*)

Nathan H. Green, Montreal, Que., 4th April, 1882; for 5 years.

*Claim.*—1st. A box car arranged to dump having its sides formed with central openings, and on either side of these openings doors or gates extending up part of the height of the car so as to swing outwards. 2nd. A box-car arranged to dump and provided with central side-doors, chutes L from same gates E, and openings in roofs with covers K. 3rd. A car having its side frames composed of posts B C Cr and mid-sills D, all properly braced and secured together. 4th. In a car arranged to dump sideways, the combination of the convex bed H having projections h, with the rocker G and recesses g.

**No. 16,608. Improvements in Reefing Gear.**

(*Perfectionnements aux agrès pour arriser.*)

Ebenezer Bigelow, Jr., Medford, N. S., 4th April, 1883; for 5 years.

*Claim.*—1st. The combination of reef point C with thimble or bull's eye D. 2nd. The combination of reef point C D with sail B, and yard A and knot E.

**No. 16,609. Compound for Mince Pies.**

(*Composition pour des pâtés.*)

Henry J. Allen, Port Byron, N. Y., U. S., 4th April, 1883; for 5 years.

*Claim.*—A dry mince pie compound composed essentially of cooked meat, dried apples or other fruit, sugar and spices compounded dry, whereby the meat is desiccated and preserved without being carbonized, and a dry staple composition formed as described.

**No. 16,610. Improvements on Draft Bolts.**

(*Perfectionnements aux chevilles ouvrières.*)

Peter Filman, Barton, Ont., 4th April, 1883; for 5 years.

*Claim.*—1st. A draft bolt for sleighs and waggons consisting of the combination of the rod B and tubes E. 2nd. The combination of the rod B, tubes E, washers C, braces F.

**No. 16,611. Improvements on Metallic Packing.**

(*Perfectionnements aux garnitures métalliques.*)

Leopold Katzenstein, New York, N. Y., U. S., 4th April, 1883; for 5 years.

*Claim.*—1st. A packing composed of inner metallic tube, a metallic covering b applied directly to said tube, and outer fibrous covering e. 2nd. A packing composed of inner tube a having end flange or flanges d, and of the metallic covering b and fibrous covering e. 3rd. The hollow packing rings arranged one above another around the surface to be packed. 4th. The hollow packing rings having fibrous covering and opening or openings in the inner tube, to admit steam or water. 5th. In a packing ring, the inner tube a made with overlapping edges. 6th. The packing composed of inner tube a, soft wire b, outer tube f and fibrous or mineral covering e.

**No. 16,612. Improvements in Spinning and Doubling Frames.** (*Perfectionnements aux machines à filer et retordre.*)

John Young and Edwin Furniss, Mellor, Eng., 4th April, 1883; for 5 years.

*Claim.*—1st. The combination, with the ordinary ring, of a split ring carried by a standard fixed to the ring rail, so as to embrace the spool or cop upon the same central line, as and above the ordinary ring.

**No. 16,613. Improvements on Draining Cases for Barrels.** (*Perfectionnements aux égouttoirs pour les barils.*)

George M. Crapon, Wilmington, N. C., U. S., 4th April, 1883; for 5 years.

*Claim.*—1st. A draining case for barrels composed of a suitable case or cabinet having a hinged cover and downwardly inclined bottom provided, at its lowest point, with a downwardly extending drip tube terminating on a level with or above the lower edges of the sides of the case, which are extended below the bottom.

**No. 16,614. Tonic Medicine for the Cure of Liver Complaint, Dyspepsia, Sick Headache, &c.** (*Médecine tonique pour guérir les maladies du foie, la dyspepsie, le mal de tête bilieux, etc.*)

John W. Barnes, Meaford, Ont., 4th April, 1883; for 5 years.

*Claim.*—A compound composed of gentian root, twenty-five grains,