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INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years. The term of years for which the fee has been paid, is given after the date of the patent.

No. 31,212. Cover for Bricks while in Hacks. (*Couverture pour les briques en camion.*)

Edward New, Hamilton, Ont., 1st May, 1889; 5 years.

Claim.—1st. In a cover for bricks while in hacks, the framework A provided with the longitudinal supports B, B, the folding hinged covers c hinged at a and b, the suspension cords D, in combination with the adjusting cord e, weight G, and the pulley F, substantially as and for the purpose hereinbefore set forth. 2nd. In a cover for bricks while in hacks, the combination, with the frame A, of the supports B, B, the crank H, pullers I and F, endless cord J, adjusting cords e, e₁ and e₂, weight G, folding covers c hinged to frame, and the suspension cords D, substantially as and for the purpose hereinbefore set forth.

No. 31,213. Book Rack. (*Bois de bibliothèque.*)

Sylvanus J. Talbot, Milford, N.H., U.S., 1st May, 1889; 5 years.

Claim.—1st. A book rack consisting of the combination of upper and lower shelves A and C having corner holes, one or more intermediate shelves B, provided with end slots b, corner posts D having dowelled portions d, d₂, and reduced portions d₁, screw-threaded end rods E, and clamping pieces G and H, substantially as and for the purposes described. 2nd. A book rack, consisting of the combination with perforated shelves, of solid corner posts D having dowelled ends d₂ flush with the outer surface of one of the shelves, dowelled ends d₁ projecting beyond the outer surface of the other of said shelves, screw-threaded end rods E, lower clamping pieces G and upper clamping pieces H provided with holes d₃, substantially as and for the purposes described.

No. 31,214. Disk Harrow and Pulverizer.

(*Herse brise-motte à disques.*)

Edward C. Boyer, Dayton, Ohio, U.S., 1st May, 1889; 5 years.

Claim.—1st. The combination of beams C, C having slotted lugs D, D, and the tongue A provided with a bolt G, substantially as described. 2nd. The combination of the tongue A, beams C, drag-bars P, P₁, and levers, substantially as and for the purposes described. 3rd. The combination, with the beams C, the hangers L, the divided journal-boxes M, the clips N, and the gang-shafts, as and for the purpose described. 4th. The combination, with the standards L provided with eyes at their lower ends, of the drag-bars P, P₁ attached to these eyes, as and for the purpose specified. 5th. The combination, with the tongue A, and the depending hanger A₁ supporting the ball B₁, of the gang-shafts, as and for the purpose set forth. 6th. The combination of the two opposing gang-shafts provided with the spiral cutters G₁, and the concavo-convex disks D₁ upon the inner ends of the gang-shafts, as described. 7th. A gang-shaft provided with disks G₁ having spiral cutting edges, as and for the purpose described. 8th. The combination of the tongue A, the two opposing gangs, and the depending curved covering blade J, as and for the purpose described.

No. 31,215. Hydro-Carbon Vaporizer and Burner. (*Appareil évaporatoire et brûleur à hydro-carbures.*)

Lysander Mathews, James M. Mathews and Rufus P. Mathews, Minneapolis, Minn., U.S., 1st May, 1889; 15 years.

Claim.—1st. The combination, with the retort pipe and the burner pipe, of the supply pipe connected with said retort pipe, and a suitable packing 8 arranged in the interior of said supply pipe, substantially as described. 2nd. The combination, with the retort pipe 9,

and the burner pipe 13 arranged beneath said retort pipe, and provided with the burners 15, of the curved deflectors 17 mounted upon said pipe 9, and adapted to be moved around said pipe or longitudinally thereon, substantially as described. 3rd. The combination, with the retort pipe 9, and the burner pipe 13 provided with the series of burners 15 upon the top thereof, and the burner 21 arranged upon the side of said pipe 13, and provided with the cut-off valve 23, substantially as described. 4th. The combination, with the retort pipe having a burner opening, of the sliding sleeve 25 arranged upon said pipe, and adapted to close said opening, and provided with the clamping screw 27, substantially as described.

No. 31,216. Boot and Shoe Vamp.

(*Empeigne de chaussures.*)

Joseph Fortin, St. Henri, Que., 1st May, 1889; 5 years.

Résumé.—Le procédé et la manière de faire une empeigne de chaussures d'un seul morceau et sans couture, avec soudure solidifiée par deux rivets sur le cou-de-pied.

No. 31,217. Bag-Holder. (*Accroche-sac.*)

John K. Fiske, (assignee of Charles W. Allen, the assignee of William R. Burrage), Toronto, Ont., 1st May, 1889; 5 years.

Claim.—1st. The combination, with the frame of a bag-holder, of studs independently adjustable upon the frame, and adapted to disengage the mouth of the bag supported by the frame, substantially as and for the purpose specified. 2nd. As an improved bag-holder, a frame provided with means for suitably supporting it, and with a fixed upward projection for holding one side of the mouth of the bag, and with studs independently adjustable for holding the opposite side of the mouth of the bag, substantially as and for the purposes specified.

No. 31,218. Bag-Holder. (*Accroche-sac.*)

John K. Fiske, (assignee of Charles W. Allen), Toronto, Ont., 1st May, 1889; 5 years.

Claim.—A bag-holder consisting of an open three-sided frame having parallel sides, each held by a movable bracket having a downward projecting conical jaw with a hooked limb, said jaw adapted to engage a support adjustably, and said bracket having upward projecting blunt studs adapted to engage the rim of a bag, substantially as set forth.

No. 31,219. Boiler. (*Chaudière.*)

Rosina L. Moore, (assignee of Hollis W. Moore), Olean, N.Y., U.S., 1st May, 1889; 5 years.

Claim.—1st. The vertical portion consisting of sections bolted together, and having the transverse connecting tubes a and the hollow threaded bosses, the tubes B having the closed outer ends, and the grate, substantially as specified. 2nd. The combination of the sections consisting of the tubes a, the transverse connecting tubes, and the internally threaded hollow bosses, the rods having the beaded end, and the threaded end, the nut thereon, the plates having the opening for the rod, the horizontal tubes closed at their outer end, and the opposite end engaging the bosses, the grate, the water feed pipe, and the steam pipe, substantially as specified. 3rd. In a boiler, the combination, with the tubes, of the ratchet-shaped diaphragm, substantially as specified. 4th. In a boiler or steam generator, in combination with the tubes, the plugs provided with the transverse conical opening, the larger end facing the vertical portion of the generator, substantially as specified. 5th. In combination with the horizontal tubes of a boiler, the longitudinal ratchet-shaped diaphragm, and the plugs having the threaded portion to engage threaded openings through the wall of the tube, and having the end within the tube provided with the conical opening, substantially as specified.

No. 31,220. Shirt Wrist Band.

(*Poignet de chemise.*)

William E. Howell, Charles H. Connell and Thomas E. Brain, Los Angeles, Cal., U.S., 1st May, 1889; 5 years.

Claim.—The combination of the double wristband provided with the four button-holes c, c, c₁, c₂, and the sleeve provided with the