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## RECORD




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### INVENTIONS PATENTED.

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

#### No. 23,291. Harness. (*Harnais*.)

David Stensley, Monticello, Wis., U.S., 1st February, 1886; 5 years.

*Claim*.—1st. In a device for coupling an odd number of horse's harness abreast, the combination, with a strap, of two snap-hooks near its centre adapted to engage both the bit-rings of the center horse, and other snap-hooks placed at suitable intervals and each adapted to engage one of the bit-rings of a horse on either of the central horse. 2nd. The combination of the center strap A, the bar B and snaps G, the buckles C, extension straps H and snaps G1, substantially as shown and described and for the purpose set forth. 3rd. The combination of the center strap A, the bar B and snaps G, the buckles C, extension straps H and J and snaps attached to the outer ends of said extension straps, substantially as shown and described and for the purpose set forth.

#### No. 23,292. Adjustable Hansom. (*Cabriolet*.)

James Stothers, London, Ont., 1st February, 1886; 5 years.

*Claim*.—1st. The combination of the half curved springs A, A and cranks C, C, with the spring D connecting the body B with the axle E, substantially as shown and described and for the purpose specified. 2nd. The combination of the shafts J, screw-threaded bolt H provided with nut C, spring K, brace rod L and side bar I, substantially as shown and described and for the purpose set forth. 3rd. The combination of the metallic plates b1, b2, blocks a1, a2 and clips G, G, substantially as shown and described and for the purpose specified. 4th. The combination of the half curved springs A, A, cranks C, C and spring D, with the sliding seat N, body B and axle E, substantially as shown and described and for the purpose specified.

#### No. 23,293. Manufacture of Ornamental Surfaces of Combined Metal and Glass, etc. (*Fabrication de Surfaces d'Ornement en Métal et Verre, etc., Combinés*.)

Alfred Swan, Low Fell, Eng., 1st February, 1886; 5 years.

*Claim*.—The manufacture of ornamental surfaces of combined metal or glass or the like, by forming the metal with projections, grooves or irregularities, and moulding, casting or pressing the glass or the like therearound, substantially as and for the purpose hereinbefore described.

#### No. 23,294. Adjustable Trough for Feeding and Watering Live Stock on R. R. Cars. (*Auge Mobile pour Nourrir et Abreuver les Bestiaux sur les Chars de Chemin de Fer*.)

Genova Armstrong, Elmira, N.Y., U.S., 1st February, 1886; 5 years.

*Claim*.—1st. In a stock car, the swinging troughs suspended outside the car by suitable levers connected together and operated at each end of said car, in combination with the funnel and branch pipes for supplying said troughs with water, as set forth. 2nd. In a stock car, the movable troughs and their operating levers, in combination with the grooved guide brackets extending outwardly from

each side of the car door, for the purpose of guiding one end of the troughs, as set forth. 3rd. In a stock car, the movable troughs and their operating levers, in combination with the brackets E and guide plates d arranged to guide both ends of the troughs, in the manner set forth. 4th. In a stock car, provided with outwardly extending side doors and side openings a, the combination, with the suspended and movable troughs, the levers for operating them and the guide brackets, and guide plates adapted to cause the troughs to pass through the space a to the interior of the car when lowered and be drawn therefrom when raised, substantially as set forth.

#### No. 23,295. Boot and Shoe Protector.

(*Protecteur de Chaussure*.)

Thomas Gribble, Red Jacket, Mich., U.S., 1st February, 1886; 5 years.

*Claim*.—1st. The malleable metal upper and sole protector A, consisting of a bottom plate having studs in its bottom surface, and formed with side and toe flanges b, interrupted at intervals by the cuts c, whereby when applied to a boot or shoe the said flanges may be bent inward to close the sole edge, and the lower portion of the upper, substantially as set forth. 2nd. In a minor's boot, the combination, with the metallic studded upper and sole protector A having upwardly projecting flanges b, of the metallic shank protector C having upwardly projecting side flanges in pivoted or articulated connection at their forward ends with the rear ends of the flanges b, as shown at d, substantially as specified.

#### No. 23,296. Floor Mop. (*Torchon à Plancher*.)

George A. Keene, Lynn, and Charles H. Brook, Boston, Mass., U.S., 1st February, 1886; 5 years.

*Claim*.—1st. In a floor-mop, the combination, of a fixed jaw provided with a handle, a pivoted jaw and suitable operating rods to move the said jaw towards and from the fixed jaw, a mop-rag composed of sponge or other flexible material and supporting a block therefor suspended between the two jaws, substantially as described. 2nd. In a floor-mop, the combination of a fixed jaw provided with a handle, a pivoted jaw operating rods for said jaw to or from the fixed jaw, a mop-rag composed of sponge or other flexible material, a supporting block therefor suspended between the two jaws, and a locking device, substantially as described, for holding the movable jaw in an open or closed position, substantially as described. 3rd. In a floor-mop, the combination, with the jaws thereof, of a scraper secured to one of the jaws and projecting below the edge of the same, the mop-rag or sponge, the supporting block therefor and operating jaws adapted to move the mop within the edges of the jaws, whereby the scraper is permitted to come into action, substantially as described. 4th. In a mop, the combination of the jaws H and A, an intermediate mop-rag and the cleats or strips n, n, substantially as described. 5th. In a mop and in combination, the jaws H and A and intermediate mop-rag K, said jaws being provided with the cleats or strips n, n, and having the openings t for the escape of water, substantially as described. 6th. A floor-mop composed essentially of the handle B1, the block A having extensions a, a, the block H pivoted to swing in said extensions, the intermediate mop-rag K and operating rods for opening and closing the movable jaw H, substantially as described and shown. 7th. In a mop of substantially the construction described, the combination of handle B, the block A secured to said handle and provided with extension frame a, a the block H pivoted to swing in said extension and provided with upwardly extended arm e, said arm being jointed to a rod f, a rod G connecting with the rod f and extended along the handle B, and the mop-rag K attached to a supporting block P and suspended by arm s from the toggle joint 4, all substantially as described.

#### No. 23,297. Apparatus for Pulverizing Ores, etc. (*Appareil pour Broyer les Minerais, etc.*)

Lyman F. Holman, (assignee of Frederic A. Luckinback,) New York, N.Y., U.S., 1st February, 1885; 5 years.

*Claim*.—1st. The combination, in a pulverizer, of the chamber D, nozzle O and wearing pipe E having flange E1, constructed and arranged substantially as described. 2nd. The combination, in a pul-