

The Canadian Patent Office

RECORD

Vol. XIII.—No. 8.

AUGUST, 1885.

{ Price in Canada \$2.50 per An.
United States - \$2.50 "

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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. 21,945. Box Manufactured from Paper Pulp for Packing Cheese and Carrying Sliver. (*Boîte en Pâte à Papier pour Empaqueter le Fromage et Transporter les Boudins de Laine.*)

Simon X. Cimon, M.P., St. Etienne de la Malbaie, Que., 26th June 1885; 5 years.

Claim.—A new article of manufacture consisting of a box for packing cheese and carrying sliver, made of paper pulp pressed and put up in knock-down bunches, and bent and nailed, as described, and provided with a loop at the bottom and handles on the sides, substantially as specified and for the purposes set forth.

No. 21,946. Cartridge for Small Arms. (*Cartouche pour Armes Portatives.*)

Livingston Middleditch, (Assignee of Azel S. Lyman), Brooklyn, N. Y., U.S., 30th June, 1885; 5 years.

Claim.—1st. A cartridge consisting of a shell charged with a cake of powder made solid, substantially as hereinbefore set forth, said cake of powder being pierced longitudinally by a free unobstructed perforation, as and for the purpose described. 2nd. A cartridge consisting of a shell charged with a cake of powder make solid, substantially as hereinbefore set forth, said cake of powder being pierced longitudinally by a free unobstructed perforation, and being protected from the action of fire upon its outer surface and rear end by said shell, as and for the purpose described.

No. 21,947. Cartridge for Ordnance. (*Cartouche de Canon.*)

Livingston Middleditch, (Assignee of Azel S. Lyman), Brooklyn, N. Y., U.S., 30th June, 1885; 5 years.

Claim.—1st. A cartridge consisting of a shell charged with a solid cake of powder, having longitudinal holes running through it from end to end, such cake of powder being protected from the action of fire upon its outer surface by said shell, substantially as and for the purpose set forth. 2nd. A cartridge consisting of a shell charged with solid cakes of powder packed in the shell, and extending from end to end of the charge, the cakes of powder being each protected upon their outer surfaces from action of fire, and being also each perforated with one or more longitudinal holes, substantially as and for the purpose set forth. 3rd. A cartridge consisting of a shell charged with a solid cake of powder which is protected upon its outer surface from the action of fire by said shell and is protected at its rear end by the head of said shell, said cake and the head of the shell being perforated by longitudinal holes, substantially as and for the purpose set forth. 4th. A cartridge consisting of a shell charged with a solid cake of powder, perforated by longitudinal holes extending also through the head of the cartridge, the cartridge being provided with a projection extending rearwardly from its head and adapted to bear against the gun, and thereby form an open space back of the head of the cartridge when in the gun, substantially as set forth. 5th. A cartridge consisting of a shell charged with a solid cake of powder, perforated from end to end by longitudinal holes extending also

through the cartridge head, and provided with a firing tube arranged to direct an igniting flame to the front end of the powder cake, substantially as and for the purpose set forth.

No. 21,948. Broom Stand. (*Porte-Balai.*)

Charles P. Brandon, Toronto, Ont., 2nd July, 1885; 5 years.

Claim.—As a new article of manufacture, a broom or mop stand, or rack, composed of the rectangular frames A and B, having holes e and f made in them, and detachably connected by the screwed ends on posts C and nuts d, substantially as and for the purpose specified.

No. 21,949. Process and Machinery for Shaping Boot and Shoe Counters. (*Procédé et Machine pour Former les Contreforts des Chaussures.*)

Louis Cote, St. Hyacinthe, Que., 2nd July, 1885; 5 years.

Claim.—1st. The process of shaping counters of boots and shoes, which consists in, first, cutting the material to shape, second, flanging it, third, bringing it to the form of a portion of the periphery or surface of a sphere or spheroid, substantially as described. 2nd. The process of shaping counters of boots and shoes, which consists in, first, cutting the material to shape, second, flanging it, third, bringing it to the form of a portion of the periphery or surface of a sphere or spheroid, and, lastly, giving it an elliptical configuration or shape of the last, substantially as described. 3rd. The combination, in a machine of the former l₃, mould e₃, former D, mould E, wheel H and mould J, operated as described, substantially as set forth. 4th. The combination of the mould J, wheel H having axle c₄ and recess b₄, provided with teeth pinion a₄, brackets d₄ and e₄, substantially as described. 5th. The combination of the mould J, wheel H having its centre of revolution axis or axle situated at a distance from the centre of propulsion, substantially as described. 6th. The combination of the mould f₃, having recess h₃ and extension of recess i₃, as described, with the cylindrical former l₃, constructed and operated substantially as described. 7th. The combination of the mould f₃ and former l₃, constructed as described, substantially as set forth.

No. 21,950. Manufacture of Boots. (*Fabrication des Bottes.*)

Horatio G. Charlesworth, Toronto, Ont., 2nd July, 1885; 5 years.

Claim.—In the manufacture of boots and shoes, in finishing the outer surface of the shanks by affixing a thin ornamented material A, substantially as shown and described.

No. 21,951. Coal Oil Lamp for Heating Smoothing Irons. (*Lampe à Pétrole pour Chauffer les Fers à Repasser.*)

Patrick F. Ratchford, Ont., 2nd July, 1885; 5 years.

Claim.—1st. In a smoothing iron heating apparatus, the disks D, D, coupled by the web c, supported over the burners B by the legs b, and the wick tubes C extending up through openings formed in them, and the steady tubes a fixed to them, substantially as and for the purpose described. 2nd. The combination of the shelf bracket E, with the web c, connecting the disks D, as shown and described. 3rd. The combination of the oil vessel A, burners B, wick-tubes C, disks D carrying the steady tubes a, supported by the legs b and connected by the web c, and the shelf bracket E, substantially as herein shown and described.

No. 21,952. Automatic Boiler Feeder.

(*Alimentateur Automatique de Chaudière à Vapeur.*)

Samuel Haigh, Coquitlam, B.C., 2nd July, 1885; 15 years.

Claim.—1st. The combination, with the cylinders A, A, having connections to the steam and water spaces of a boiler, and to a water supply and the steam chest C, in the line of the connection to the steam space, and having steam passages leading to the cylinder and