

No. 21,107. Car Replacer. (*Appareil pour Remettre les chars sur la Voie.*)

Robert Jones, Salt Lake, Utah, U.S., 19th February, 1885; 5 years.

Claim.—1st. A car replacer, consisting essentially of a frog C, provided with a pivoted tongue, and bent at I, to form a downward incline *h*, the inclined flanges D, formed on opposite sides of said incline *h*, and the depending lugs F, at the opposite end of the frog from the incline *h*, substantially as set forth. 2nd. In a car replacer, the combination, with a frog adapted to extend from the rail to the road-bed, provided with a pivoted tongue and having downwardly-extending lugs, of a wedge adapted to be placed between one of the lugs and the web of the rail, substantially as specified. 3rd. The combination, with the frog C having flanges D, downwardly-extending lugs F, and prongs H, and provided with the tongue E, of the wedge G and the set screws *f*, substantially as specified. 4th. In a car replacer, the extension J having flanges K, and adapted to fit upon the frog C, substantially as specified.

No. 21,108. Automatic Brake for Railroad Cars. (*Frein Automatique de Chemin de Fer.*)

John H. Ames, St. Paul, Minn., U.S., 19th February, 1885; 5 years.

Claim.—The combination of the cars of a train, each having braking and coupling appliances, and a series of coupled bars or shafts, or their equivalents, extending throughout the train, and independent of the car-couplings, with springs, or their equivalents, for drawing or forcing the brakes against the wheels, and with a steam, air, or water cylinder, or equivalent operating device with necessary mechanism, whereby rotary movement and torsional strain can be imparted to the bars, or their equivalents, in opposition to the action of the springs, so as to insure the simultaneous withdrawal or application of the brakes throughout the train, the strain upon the bars and the operation of the brakes being unaffected by any strain exerted upon the ordinary couplings or bumpers, all as set forth.

No. 21,109. Car Wheel. (*Roue de Char.*)

Joseph G. Lafontaine, Champlain, N. Y., U. S., 19th February, 1885; 5 years.

Claim.—In a car wheel, the combination of the chilled cast iron rim, inclosing a wrought-iron band, with the crossed wrought-iron spokes and cast metal hub, substantially as specified.

No. 21,110. Hay and Grain Elevator, &c. (*Montee-Poin, &c.*)

James Tomlin, Otterville, Ont., 19th February, 1885; 5 years.

Claim.—As an elevator for farm produce, the combination of the cradle B, with the pulleys C, cords D, and drum E, with ratchet and pawl, arranged and acting as shown, and controlled by the brake J, substantially as shown and for the purpose specified.

No. 21,111. Force Pump. (*Pompe Foulante.*)

William A. Bickford, Moncton, N.B., 19th February, 1885; 5 years.

Claim.—1st. In a force pump, the cylinder A having projecting rings *c, c*, as shown and for the purpose described. 2nd. In a force pump, the piston rod D having circumferential groove, or recess *c*, in combination with clips F, having projections *f, f*, substantially as shown and described. 3rd. The cast handle H, having flanges *h, h*, in combination with the wood lever I, having slot *i*, substantially as shown and described. 4th. In a force pump, the combination of the fulcrum pin L, with caps K, K, as shown and described. 5th. In a force pump, the combination of the cylinder A, rings *c, c*, piston rod D, clips F, handle H, lever I, pin L, and caps K, k, substantially and for the purpose hereinbefore set forth.

No. 21,112. Governor for Regulating the Draft in Stove and Furnace Pipes. (*Gouverneur pour Régler le Tirage des Tuyaux de Poêles et de Fourneaux.*)

Isaac Cosgrave, Chatham, Ont., 19th February, 1885; 5 years.

Claim.—1st. The valve or damper D, operated by the expansion and contraction of the pipe P, when connected thereto by rods H, or I, or the equivalent, substantially as shown and described and for the purpose specified. 2nd. The combination of the rod I, provided with a screw thread near one end, nuts N₁, N₂, bracket or arm B, with the shaft F, and crank E, connecting the damper D, and pipe P, substantially as shown and described and for the purpose specified. 3rd. The combination of the collars C, C, brackets B, B₁, upright U, lever G, rod H, rod I, provided with a screw thread at one end, nuts N₁, N₂, shaft F and crank E, connecting the damper D, with pipe P, substantially as shown and described and for the purpose set forth.

No. 21,113. Appliance for taking off and Putting on Boots. (*Appareil pour Tirer et Mettre les Bottes.*)

Joseph E. Townshend, Montreal, Que., 19th February, 1885; 5 years.

Claim.—1st. The combination of the legs *d*, provided with pins *k*, and board *a* provided with hole *b*, substantially as described for the purposes set forth. 2nd. The combination of the legs *d* having pins *l*, with board *a* having hole *b*, substantially as described for the purposes set forth. 3rd. The novel construction and arrangement of the legs *d*, provided with rails, as described, with pins *k* and *l*, the whole combined substantially as described for the purposes set forth. 4th. The novel construction and arrangement of the legs *d* provided with rails, as described, and pins *k*, the whole combined substantially as described for the purposes set forth. 5th. The novel construction and arrangement of the legs *d*, provided with rails, as described, and pins *l*, the whole combined substantially as described for the purposes set forth.

No. 21,114. Mocassin. (*Mocassin.*)

John Siegel, Three Rivers, Que., 19th February, 1885; 5 years.

Claim.—1st. As a new article of manufacture, a mocassin consisting of the foot or shoe A and the upper B, seamed at the rear and having an inner flap *b* formed integrally with the upper, and having a segmental piece *c* cut out, and the seam C formed, the edges provided with binding D, the upper provided with the ball and socket fasteners F of equivalent, closing approximately in the centre line of the upper and reinforced by stiffeners or linings E underneath the fasteners. 2nd. As a new article of manufacture, a mocassin consisting of the foot or shoe A, and the upper B seamed at the rear, and having an inner flap *b* stitched to the concealed edge of the upper and a seam C formed, the edges of the upper provided with binding D, and adapted to close at the centre line of the upper front by means of ball and socket fasteners F, buttons and button-holes, or equivalents and reinforced by stiffeners or linings E under the fasteners. 3rd. As a new article of manufacture, a mocassin upper made with a seam C at the rear to conform to the angle, and a seam C cut to conform to the instep, and formed with overlapping flaps to close in the centre line of the front provided with suitable binding and enforced with internal stiffening or linings E in position to receive the means of fastening, consisting of buttons and button-holes, or equivalents, all substantially as described and for the purpose described.

No. 21,115. Water Closet. (*Cabinet à l'Eau.*)

Henry A. Macdonald, Halifax, N.S., 19th February, 1885; 5 years.

Claim.—The combination of the valve D, with the stand pipe E, the lever F and the spring H, substantially as and for the purpose hereinbefore set forth.

No. 21,116. Priming Paint. (*Couleur d'Apprêt.*)

William H. Wilbur and Philip P. Seeber, Buffalo, N. Y., U. S., 19th February, 1885; 5 years.

Claim.—A printing paint compound, composed of liquid asphaltum, rosin, linseed oil, turpentine, or naphtha, and white lead in their relative proportions, substantially as set forth.

No. 21,117. Duplex Telegraphy.(*Télégraphie à Double Courant.*)

Alexander Muirhead, Oakwood, Eng., 19th February, 1885; 15 years.

Claim.—1st. The combination, substantially as hereinbefore set forth, in an electrical of telegraphic circuit, of an adjustable condenser with an adjustable resistance circuit. 2nd. The combination, substantially as hereinbefore set forth, in an electrical or telegraphic circuit, of the receiving instrument, the adjustable rheostat, the separate condensers in the circuit, one connecting with the actual and the other with the artificial or compensating line, the adjustable supplementary condenser, and the adjustable resistance coil in connection with one or the other of said condensers, with the key and battery and the condenser in the circuit between the actual and the artificial lines.

No. 21,118. Stringing Pianos.(*Manière de Poser les Cordes des Pianos.*)

Richard McMillan, Kingston, Ont., 19th February, 1885; 5 years.

Claim.—The combination, with the wrest plate, perforated as set forth, of the wrest pins G, and screw followers H, for securing the strings, as set forth.

No. 21,119. Setting Instrument for Attaching Buttons to Leather, &c. (*Outil pour Poser les Boutons sur le Cuir, &c.*)

George E. Parker, Boston, Mass. (Assignee of Charles H. Eggleston, Marshall, Mich.), U.S., 19th February, 1885.

Claim.—In a button setting apparatus, a staple guide, slotted to receive the shank of the button connected to the staple, a jaw, or member supporting an anvil, or clinching surface for the staple legs, and a jaw or member provided with a driver D, to enter the staple guide, act on the crown of the staple, and drive the latter from the guide into the material clinching the prongs of the staple at the under side of the material, substantially as described.

No. 21,120. Grain Separator.(*Séparateur des Grains.*)

Andrew B. Mouck, Fargo, Dak., and Bernard Cloutier, Minneapolis, Minn., U.S., 19th February, 1885; 15 years.

Claim.—1st. The main casing A, provided with zig-zag screening partition B, in combination with the hinged portion of the casing provided with the zig-zag screening partition C, substantially as specified. 2nd. The zig-zag screening partition B, in combination with the screening partition C, and adjustable securing devices, whereby the partitions can be adjusted to and from each other, as set forth. 3rd. The zig-zag screening partitions B, C, in combination with the passage ways *k* attached to one screening partition, and passage ways *k* attached to the other screening partition, said ways *k* and *k*₁ registering with each other when the hinged portion of the casing is closed, all constructed substantially as set forth.

No. 21,121. Die and Form for Shaping Heel Counters. (*Etampe et Forme pour Façonner les Contreforts des Chaussures.*)

Robert White, (Assignee of Joseph Kieffer,) Montreal, Que., 19th February, 1885; Reissue of patent No. 11,076.

Claim 1st.—In the construction of a female die or mould, operating with a male die or former, actuated as described, the combina-