

No. 35,621. Churn. (*Baratte.*)

Henry Mulholland and Thomas E. Morrow, both of Jarvis, Quebec, Canada, 17th December, 1890; 5 years.

Claim.—1st. A churn having a water jacket or casing N, surrounding the sides and bottom of a rectangular cream chamber B, a vertical shaft or spin *le D*, provided with a beveled cog pinion E, and dasher sections Q, a removable top or cover F, provided with a bearing H, supporting a shaft J, carrying a cog wheel K, and meshing with said cog pinion, as set forth, for the purpose described. 2nd. A churn having a rectangular cream chamber B, a surrounding jacket or casing N, forming an external water chamber, and a rotary vertical dasher composed of a series of sections Q, having oppositely beveled faces from near the middle to the end, and arranged to produce opposing currents in the cream chamber, as set forth.

No. 35,622. Retainer for Overshoes.

(*Appareil pour retenir les claques.*)

James Louis Heffernan, Newcomb, Tennessee, U.S.A., 18th December, 1890; 5 years.

Claim.—1st. The combination, with an overshoe, of the plates secured to the overshoe-counter, the securing loop E, formed with the flattened apertured ends and curved backward at its center, the end sleeves E¹¹, having the apertures e², and pivoted at their ends to the plates B, and the elastic bands secured to the loop E, and the sides of the overshoe, substantially as set forth. 2nd. The combination, with an overshoe, the plates secured to the overshoe-counter, the securing loop E, formed with the flattened apertured ends and curved backward at its center and having the handle e¹, the apertured end sleeves pivoted at their ends to the said plates, the elastic bands secured to the loop E, in its lowered or depressed position, substantially as set forth. 3rd. The combination of an overshoe, the plates secured to the overshoe-counter and having the stop projections, the securing loop E, formed with the flattened apertured ends, the apertured end sleeves pivoted to the said plate and having its ends adapted to engage with the said stop projections on the plate, and the elastic band secured to the loop E, and to the sides of the overshoe, substantially as set forth. 4th. The combination of an overshoe, the plates B, secured to the counter of the overshoe and having the stop pins C, and the pivot pins D, the securing loop B, formed with the flattened apertured ends, the apertured end sleeves formed at their lower ends with the slots E³, and the end notches E⁴, and the rubber bands F, secured to the loop E, and to the sides of the overshoe, substantially as set forth.

No. 35,623. Drawing Board. (*Planche à dessin.*)

John Thomas Warden, Philadelphia, Pennsylvania, U.S.A., 18th December, 1890; 5 years.

Claim.—1st. The combination of the drawing board support, a board therefor, with a straight edge and two sets of levers pivoted at fixed points, links connecting the levers to the straight edge, and links connecting the two sets of levers, substantially as set forth. 2nd. The combination of the drawing board support therefor, a straight edge, two sets of levers pivoted to said support, a weight to which the levers are linked, with links connecting the levers to the straight edge, substantially as described. 3rd. The combination in a drawing board support, of the base, the worm mounted thereon, a vertical rack bar carrying the frame, with a gear wheel meshing with the rack, and with the worm, whereby the frame is raised and lowered, substantially as described. 4th. The combination of the quadrangular frame E¹, the spider B, having arms, levers pivoted to said arms, links securing the short arms of said levers to a weight, with links securing the long arms of said levers to a straight edge, which is adapted to travel over the face of the drawing board mounted on the frame, substantially as described.

No. 35,624. Chromatic Pitch Pipe.

(*Diapason chromatique.*)

Charles Harris Congdon, St. Paul, Minnesota, U.S.A., 18th December, 1890; 5 years.

Claim.—1st. A pitch pipe, comprising, in combination, a grooved base, a plate secured upon said base and having reed openings there-through, series of reeds arranged upon said plate, and above said grooves respectively, an inclosing cover having notches or openings on the several sides thereof, connecting respectively with the grooves of the base, and a vent through the top of said cover, substantially as and for the purposes set forth. 2nd. In a device of the class described, the combination of the base 2, having grooves 3 and 4, the plate 5, secured thereon, and having reed openings 10, arranged in pairs respectively over said grooves 3, the series of reeds 7, arranged upon one side of said plate, and over said reed openings, and the cover 11, fitting over and inclosing the said plate and base, and provided with the common vent 14, and with the notches 13, opening respectively into the grooves 3 and 4, substantially as and for the purposes set forth.

No. 35,625. Art of Pairing Stockings and Board Therefor. (*Manière d'accoupler les bas et appareil à cet effet.*)

William Hanson Howard, Lowell, Massachusetts, U.S.A., 18th December, 1890; 5 years.

Claim.—1st. The art of commercially folding and assembling stockings in pairs, which consists in creasing each stocking along the sides of the leg, and around the point of the heel, along the sides of the foot, and around the toe, folding the top or instep portion of the foot against the forward part of the leg, and pairing the stockings so folded by laying the face of the back leg portion of one

against or in juxtaposition with the face of the corresponding portion of the other stocking, and tacking and tagging the pair at the heel point, as set forth. 2nd. A stocking board consisting of two pieces, namely, a flat leg board and a flat board, the latter shaped at its edges to resemble the outline of the sole of the human foot, said boards being hinged together, the end edge of one upon the surface of the other, as set forth, and with one of the boards projecting beyond the other at the heel part, as described.

No. 35,626. Potato Digger. (*Arrache-patates.*)

Frank Manly Thorn, Orchard Park, New York, U.S.A., 18th December, 1890; 5 years.

Claim.—1st. In a potato digger, the combination, with a double mold board plow, a frame upon which the plow is hung, and bearing wheels supporting the axle of the plow, of a double series of vibratory rods or fingers adapted to receive from each adjacent mold board the contents of the hills, and sift and separate the dirt from the potatoes, substantially as set forth. 2nd. In a potato digger, the combination, with a plow and frame upon which the latter is hung, of bearing wheels supporting the axle of the plow, and vibratory rods or fingers carried by the wheels and adapted to receive the contents of the hills and sift and separate the dirt from the potatoes, substantially as set forth. 3rd. In a potato digger, the combination, with a plow and frame upon which the latter is hung, of bearing wheels having a series of vibratory rods or fingers attached thereto, at or near the fellies, substantially as set forth. 4th. In a potato digger, the combination, with a plow and frame upon which the latter is hung, of bearing wheels supporting the axle of the plow, vibratory rods or fingers carried by the wheels, and devices for vibrating the rods or fingers, substantially as set forth. 5th. The combination, with a plow and frame upon which the latter is hung, of bearing wheels supporting the ends of the axle, vibratory rods or fingers carried by the wheels, and roller frames over which the ends of the rods or fingers pass, whereby they are temporarily retarded and slightly and briefly separated, substantially as set forth. 6th. The combination, with a plow and frame upon which the latter is hung, of bearing wheels supporting the ends of the axle, vibratory rods or fingers attached to the wheels at or near the fellies, and roller frames depending from the frame of the machine over which roller frames the fingers pass, said frames having devices thereon for temporarily retarding and vibrating the fingers, substantially as set forth. 7th. The combination, with a plow frame upon which the plow is hung, and bearing wheels supporting the ends of the axle, of vibratory rods or fingers attached to the fellies of the wheels, and roller frames depending from bars attached to the frame of the machine, said roller frames having rollers thereon over which the fingers pass in order to have a vibratory motion imparted to them, substantially as set forth.

No. 35,627. Drill for Railway Tracks.

(*Foret de chemin de fer.*)

Aaron Richard Paulus, Villisca, Iowa, U.S.A., 18th December, 1890; 5 years.

Claim.—1st. The combination, with the drill, of the operating mechanism therefor, and pivoted holding arms constructed to be thrown back with a portion of the operating mechanism, as set forth. 2nd. The combination, with the frame and the drill holder, of the screw shaft and intermediate devices for revolving said shaft by the movement of the drill holder, as set forth. 3rd. The combination, with the frame and the drill holder, of the screw shaft, the ratchet wheel thereon, a pawl engaging the said wheel, and a cam on the drill holder adapted to actuate said pawl, substantially as specified. 4th. The combination, with the frame and the drill holder, of a cam carried by the drill holder, a pawl, a rock shaft carrying the pawl, and an arm on the rock shaft actuated by engagement of the cam, substantially as specified. 5th. The combination, with the frame and the drill holder, of the screw shaft connected with the drill holder by a swivel connection, a ratchet wheel on the screw shaft, and a pawl engaging the ratchet wheel and actuated by the movement of the cam, as set forth. 6th. The combination, with the drill and the drill holder, of the screw shaft connected screw engagement holder by a swivel connection, a ratchet wheel having screw engagement with the screw shaft, a rock shaft, an arm on one end thereof engaging the cam, and a pawl on the other end engaging the ratchet wheel, as set forth. 7th. The combination, with the screw shaft having longitudinal slot of the cross-bars A¹, a pin thereon engaging the said slot, and a ratchet wheel having screw engagement with the shaft, substantially as specified. 8th. The combination, with the frame, the drill holder and the bend pinion therein, and carrying a cam of the screw shaft, the ratchet wheel thereon, and movable relatively to the length thereof, the operating mechanism for said bevel pinion, the rock shaft, the arms thereon, and the pawl carried by one of the said arms, substantially as specified. 9th. The combination, with the frame and the drill holder, of the upright frame pivoted to the support of the drill holder, the toggle connection between the upright and horizontal frames, and the hooked arms carried by the horizontal frame, substantially as specified. 10th. The combination, with the horizontal frame of the drill holder, the uprights pivoted to the horizontal frame, the shaft and pinions carried by the said uprights, the bevel pinion on the drill holder, and the toggle connection between the uprights and the frame, substantially as specified. 11th. The combination, with the frame and the drill holder and the bevel pinion thereon, of the washer and the cross stay rod bearing against said washer, substantially as specified. 12th. The combination, with the base plate, the frame C¹, thereon, and the drill holder and screw shaft connected by a swivel connection, of the ratchet wheel having screw engagement with the screw shaft, the bevel pinion and cam on the drill holder, the rock shaft, the arms thereon, the pawl carried by one of said arms, and the operating devices for the said bevel pinion, substantially as shown and described.