

parts of machine; 10th. A scrubbing brush in which the scrubbing face is formed by parallel bars of notched or slotted rubber.

### No. 9337. Improvements on Gas Carburetters. (*Perfectionnements aux carburateurs à gaz.*)

William H. Shoenberger, (Assignee of Joseph H. Bean,) Cincinnati, Ohio, U.S., 11th November, 1878, for 5 years.

*Claim.*—1st. The carburetter A, in combination with the gas chamber C and central tube B and air inlet E; 2nd. The absorbent supporter a, in combination with generator A; 3rd. The warm air dome D provided with the ventilating holes F; 4th. In combination with a gas carburetter, the warm air dome D provided with a device for allowing the cold air to escape; 5th. The warm air tube L, when used in connection with a gas burner or other source of artificial heat, to warm and regulate the temperature of the gas-generator A; 6th. The generator A, chamber C, absorbent supporter a, tubes B and E, warm air dome D and warm air tube L; 7th. The shell A, also bottom O, provided with overflow tubes c and forming the chamber C and an absorbent chamber above, in combination with supporter a, central tube B, connected tube L, the dome D and air inlet E.

### No. 9338. Improvements in Hernial Trusses. (*Perfectionnements dans les bandages herniaires.*)

William L. Tucker, Syracuse, N. Y., U. S., 11th November 1878, for 5 years.

*Claim.*—1st. The back plate b, widened at the base and provided thereat with a series of holes a, and the main plate B pivoted near its top edge to the upper end of the back plate by means of set screw S, and provided at its bottom edge and directly underneath the perineal strap attachment, with spur c adapted to engage the holes a aforesaid; 2nd. In combination with the pad A and the back plate b, hinged thereto, the V-shaped spring V; 3rd. A double hernial truss having the plate b hinged to the pad and provided with set screw S, and lateral extension w, in the form of an arc described from the centre of screw s, a spring interposed between the free end of said plate and pad and the connecting barf pivoted by one of a series of holes in its end, to set screw S and provided with a clamping device adapted to engage the lateral extension of plate. 4th. The combination of the plate b, hinged to the pad and provided at a fixed point with set screw S, and the lateral extension w, the latter provided with a series of holes arranged in an arc described from the centre of screw s, the connecting barf provided at each end with two obliquely and parallel arranged series of holes i i i i i i and set screw n. 5th. The combination and arrangement of the main plate B pivoted at its upper extremity to a fixed point on the back plate b, the back plate having wing w provided with a series of holes arranged in an arc described from the centre of the pivot of the main plate, the connecting barf provided with two obliquely and parallel arranged series of holes i i i i i i, and the set screws S and n; 6th. In combination with the pad A provided in its rear with a longitudinal recess, the plate b having short pintle c projecting from its sides and imbedded in a transverse groove in the rear surface of the pad, and the plate d fitted to cover the upper portion of the rear at the pad, and extended partly down the sides of the longitudinal recess; 7th. In combination with the V-shaped spring V attached at one extremity to the hinged plate b and bearing with the other extremity in recess in the pad, the set screw w or its equivalent inserted in the pad beneath the bearing of the spring.

### No. 9339. Well Boring and Rock Drilling Machine. (*Machine à percer les puits et le roc.*)

George D. Loomis, (Assignee of John P. Summers,) Tiffin, Ohio, U. S., 11th November 1878, for 5 years.

*Claim.*—1st. The combination of the large bevel wheel v, level wheel h and clutches f, on collar c; 2nd. The combination of the hoisting gear U and l with bevel wheel V, and clutches c secured to the collar c; 3rd. The combination of the drive wheel v with the hoisting gear U and l, pinions h and V on shaft H, controlled by the clutches c and f secured on collar c and lever g; 4th. The grooved or plain faced loose wheel M with the pin N and steel key O secured to the same, said wheel being upon the driving shaft H combined with the spring catch O' and trip finger z; 5th. The combination of the collar W with the shaft H, wheel M, with its catch spring O' and pin N, chain P' and drill F'; 6th. The combination of the wheel M, pins N and O, spring O', collar W, with trip finger z and chain P'; 7th. The combination of the wheel a, with trip finger z, and wheel M, chain P' and drill F'; 8th. The combination of the wheel M, with its pins N and O, with chain P', walking beam Q, post R, pulleys y A' C' and rope E'; 9th. The wheel M and pins N and O, in combination with wheel a, chain P', walking beam Q, post R, gin-pole G', rope E' and drill F'; 10th. The wheel M and pins N, in combination with pinions J and K and the balance wheel L, 11th. The wheel M with pins N and O, in combination with chain P', walking beam Q, post R, gin-pole G', pulleys A' y and c', rope E', pinions J and K, and balance wheel L; 12th. The brake r in combination with the hoisting gear U T i and o; 13th. The wheel M with pins N and O, in combination with the hook d', collar W, trip finger z, wheel a and the hoisting gear U T and i.

### No. 9340. Improvements on Churns. (*Perfectionnements aux barattes.*)

Charles Watkins, Woodstock, Ont., 11th November 1878, for 5 years.

*Claim.*—1st. The A-shaped frame E, having feet extending to the edge of the lid, in combination with a cog segment pivoted to the apex, and having a socket to receive a handle G, said segment meshing with a bevelled cog pinion H journaled in the bridge bar of the frame E, for operating the dasher shaft to and fro semi-relatively; 2nd. The lug I, bolted to the sides of the churn having thumb screws J engaging with the feet of the frame E for securing the lid; 3rd. The dasher frame composed of the radial boards K set ineludely and vertical rods L.

### No. 9341. Prepared Peas and Beans. (*Pois et fèves apprêtés.*)

Peter Haulenbeck, New York, U. S., 11th November 1878, for 5 years.

*Claim.*—1st. The method of preparing peas or beans consisting in steam cooking such peas or beans, flattening and consolidating them by pressure and then drying them; 2nd. Peas or beans that are in a cooked, flattened and dried condition.

### No. 9342. Apparatus for Setting up Music. (*Appareil pour imprimer la musique.*)

Hannibal Goodwin, Newark, N. J., U. S., 11th November, 1878, for 5 years.

*Claim.*—A copying board consisting of sections, some being provided with a musical staff, and having two grooves between every two lines of the staff, said grooves being arranged in the dark spaces.

### No. 9343. Improvements in Whiffletree Hooks. (*Perfectionnements aux crochets des palonniers.*)

Nathan Hill, Sherman, Mich., U.S., 11th November, 1878, for 5 years.

*Claim.*—The hook C, provided with lip, beard, or catch B, with the bars or projections D, in combination with the eye A.

### No. 9344. Improvements on Gaskets. (*Perfectionnement aux gacettes.*)

Cyrus S. Stoy, Butler, Ind., U. S., 11th November, 1878, for 5 years.

*Claim.*—The packing gasket consisting of two annular plates A united together at their inner edges and open at their outer edges, so as to form an intermediate space containing an elastic coiled filling B.

### No. 9345. Improvements on Fluid Meters. (*Perfectionnements aux compteurs à fluides.*)

Thomas Walsh, Montreal, Que., 11th November, 1878, for 5 years.

*Claim.*—The wheel E, or its equivalent constructed as described, in combination with the wheel C, D; 2nd. In a water meter, the wheel composed of parts C and D, arranged for part of the fluid to pass through and having the nipple F.

### No. 9346. Improvements on Gate Mountings. (*Perfectionnements aux ferrures des barrières.*)

Robert E. Stephens, Toronto, Ont., 11th November, 1878, for 5 years.

*Claim.*—1st. The combination of the latch plate C, latch D and catch E 2nd. The combination of the angle plates F I and hinged G J; 3rd. The combination of the ribs F b and slots in G; 4th. The tapers on the pin and in the hole I J; 5th. The form of the catch E, the form of the latch D, with rounded end a; 6th. The form of the latch plate C, having the studs c for reversing the latch.

### No. 9347. Improvements on Butter Packages. (*Perfectionnements aux tinnettes à beurre.*)

James P. Perkins, Burlington, Wis., U.S., 11th November, 1878, for 5 years.

*Claim.*—1st. A package for butter and similar articles consisting of the inner vessel A and the outer casing B, the former being secured within the latter in such manner as to leave an air space between the walls of the two. 2nd. The combination of the jar A provided with one or more rims H, or their equivalent, an outer casing B and one or more wooden bands or fillings U.

### No. 9348. Improvements on Car-Couplings. (*Perfectionnements aux attelages des wagons.*)

Charles Gifford, Gardiner, Me., U.S., 11th November, 1878, for 5 years.

*Claim.*—1st. A recessed draw-head A provided with a hook or catch e and having link arcal or semi-circular heel and too bearings g h arranged therewith. 2nd. A recessed draw-head provided with a hook or catch e and link, arcal or semi-circular heel and too bearings g h, and having a projection f separate from the link to extend over its heel or through the link; 3rd. In combination with a coupling link B, curved at its ends and a draw head provided with a coupling hook or catch devices for guiding the link in its movements as explained, such devices being the projection i and groove k arranged with the link and draw-head.