

No. 7728. Improvements on Lamp Stands.*(Perfectionnements aux pieds de lampes.)*

John Forster, Coal Valley, Ill., U. S., 9th August, 1877, for 5 years.

Claim.—A socket base A with swinging oil cup stand E, and of an upright standard B with adjustable stand C and collar D for the lamp, and a pin cushion F at the top.

No. 7729. Improvements on Horse Rakes.*(Perfectionnements aux râtaux à cheval.)*

John B. Armstrong, Guelph, Ont., 9th August, 1877, for 5 years.

Claim.—An elastic steel horse rake tooth B, tapered twenty-four inches, more or less from the point B₁, for the purpose of permitting the said tooth to pass over obstructions with the least possible resistance and without injury to the said tooth B.

No. 7730. Improvements on Sinks and Water Closets.*(Perfectionnements aux éviers et cabinets d'aisance.)*

George Jennings, London, Eng., 9th August, 1877, for 5 years.

Claim.—1st. The construction of sinks, also the arrangement of outlet valve and overflow consisting of a valve with hollow stem S having a handle S₁, projecting webs S₂ and overflow aperture S₃ applicable for bath, lavatories, sinks and other receptacles for waste waters; 2nd. The water closet with overflow A from chamber B (in which the stem C of the closet valve is located) into the trap D which is below the pan E of the closet; 3rd. The construction of closet without any trap between the closet valve H and soil pipe, but with a trap D at the lower end of overflow A and with a shield I projecting downwards from the valve seat H to below the outlet from the trap D; 4th. Forming valve apparatus used for supplying water to water closets with two delivery passages a b; 5th. The construction of valve apparatus with valve c, diaphragm g, chamber h, passage i closed by small valve k and passage m fitted with valve or tap n for controlling the supply of water to water closets; 6th. Forming the pans of water closets with rib B opposite to outlet C.

No. 7731. Improvements on the Preservation of Food.*(Perfectionnements dans la conservation des substances alimentaires.)*

Pierre P. E. M. Koch, Antwerp, Belgium, 9th August, 1877, for 5 years.

Claim.—1st. The preservation in the natural state of articles of food and in general of matters which are subject to change, fermentation or corruption, by simple immersion of the matters to be preserved in an antiseptic solution, followed by their exposure in a close apparatus to the pressure of a gas, and placing them afterwards in packages of suitable nature from which the air is removed or replaced by a gas or by a fatty matter, or preserving without special package, either on sea or land, in receivers of any dimensions suitable to afford protection from the air; 2nd. The preservation in a similar manner of the same substances in a salt state (either dry or wet); 3rd. Their preservation in the smoked state by the same method; 4th. The preservation of substances in the boiled or cooked state by the operation of vacuum obtained mechanically in packages which contain these substances (either in a natural state or already to some extent cooked), and by their subsequent exposure in close vessels to the action of steam which effects or completes the cooking.

No. 7732. Process and Apparatus for Reducing Cereals into Flour.*(Procédé et appareil pour convertir les céréales en farine.)*

Van Buren Ryerson, New York, U. S., 9th August, 1877, for 15 years.

Claim.—1st. The combination of a circular case, the interior periphery of which is provided with a succession of abrupt faces, with a revolving disk having radial beaters and provided with sections of rims having also a succession of abrupt faces; 2nd. The combination with the circular case of a milling machine of a revolving disk having radial beaters and provided with sections of a rim; 3rd. The combination of machinery for reducing cereals to flour with suitable machinery for bolting flour, whereby the flour is discharged from the mill under blast pressure directly into the bolt.

No. 7733. Improvements on Flower Stands.*(Perfectionnements aux jardinières.)*

Peter McNeil, Kincardine, Ont., 9th August, 1877, for 5 years.

Claim.—1st. The arrangement of a series of tables or shelves revolving either way round a jointed centre shaft t u; 2nd. The stand on casters w forming the lower part u of a centre shaft into a socket in which an upper part t of said shaft is fixed by means of dowel pins; 3rd. The combination of the water tank e, the indicator f, the tap g on the tank, the hose h, the spring tap or nozzle i, the removable perforated top j of the tank e, the thumb screw k and the nut l, together with the square cavity to receive said nut l and the hose rest o and the flange g; 4th. The arrangement of the movable guard m round each table or shelf, the metal supports n for the same and the bearers pp; 5th. The combination of a stand or casters w, the collar r, the revolving table a and the stationary lamp stand s.

No. 7734. Straw Carrier Bracket for Threshing Machines.*(Console de toile sans fin de machines à battre.)*

John Abell, Woodbridge, Ont., 9th August, 1877, for 5 years.

Claim.—Two oppositely placed and adjustable pivot joints on which the driving pulley head may be adjusted to any angle required.

No. 7735. Spark Arrester. (Arrête-flammèche.)

Charles H. Waterous, Jr., Brantford, Ont., (Assignee of Robert B. D. June and Oratus S. French, Fremont, Ohio, U. S.), 9th August, 1877, for 5 years.

Claim.—1st. The basin or water reservoir B and flue C made or cast in one piece, in combination with the base A; 2nd. The base A consisting of one piece of metal, in combination with the water reservoir or basin B and the inverted cone E, for the purpose of deflecting the sparks into the water contained in the reservoir or basin B and flue C; 3rd. The perforated plates I and J constructed and arranged in relation to each other and in combination with the reservoir B.

No. 7736. Clothes Washing Machine.*(Machine à laver le linge.)*

James R. Bower, Shelburne, N. S., 9th August, 1877, for 5 years.

Claim.—1st. The construction of the washer R with the bars A A A; 2nd. The combination of the washer R and the bars A A A with the corrugated zinc bottom L; 3rd. The general shape and construction of the machine.

No. 7737. Snow Plough and Track Clearer.*(Charrue à neige et chasse-pierre.)*

Jens T. Jensen, Oskaloosa, Iowa, U. S., 9th August, 1877, for 5 years.

Claim.—The turn-bale B carrying the plough C, elevator D and discharge, all mounted upon the truck A.

No. 7738. Process of Manufacturing Lined Felts. (Procédé de fabrication des feutres doublés.)

Thomas Samuel, Montreal, Que., 9th August, 1877, for 5 years.

Claim.—Combining an outer and inner layer of felted materials by means of a suitable cement applied to the respective fabric, while still in the web or piece, one layer thus forming a lining to the other and both so firmly attached together that one process of cutting and shaping suffices for both outer material and lining.

No. 7739. Automatic Gas Lighter.*(Allumoir à gaz automatique.)*

Kasimir Vogel, Chelsea, James Bartlett and Charles C. Moulton, Boston, Mass., U. S., 9th August, 1877, for 5 years.

Claim.—1st. The combination of a clock movement, a gas cock and its burner with an igniting device with mechanism for actuating the same, all so combined and arranged as to be regulated by such clock movement and a compensating device by which such opening and closing of the gas cock and igniting the gas shall be automatically adjusted to the varying length of days and nights; 2nd. The combination of cams w x, pinion r, segment lever u, gear s with its sliding block t, gear r with its pinion v, gear m and pin p; 3rd. In combination with cams w x, lever s with its toothed arms 1 2 and cam 3 connected with the transmitting shaft 4; 4th. In combination with a gas burner, the two fuse chambers 11 11 with the two feeding pawls 13 13, the two igniting fingers 14 14, and the gas opening devices, all connected with a single actuated mechanism; 5th. In combination with a gas burner the pivoted tilting stirrup 17, spring 18, sliding collar 15 and cap 21.

No. 7740. Improvements on Ice Houses.*(Perfectionnements aux glaciers.)*

Joseph E. Baril, Montreal, Que., 9th August, 1877, for 5 years.

Resumé.—La propriété d'une glacière à double courant d'air o Y o Y o Y et X o, isolant l'air chaud d'avec l'air froid pour préserver les viandes de la suer qu'elles prennent dans les glaciers ordinaires et qui consiste dans les pièces suivantes: Plancher ou plafond en plan incliné F avec poutrelles f et sous-poutrelles d qui forment la contre-chambre sous plafond W ou réservoir d'air chaud; les arcs-boutants cr, les tringlettes d, porte-crochets a, la cloison latérale G faite en doubles parois pour en rendre la surface intérieure du couloir P complètement anti-condensatrice; ce saidit couloir P, pour le passage du courant d'air chaud Y o les couloirs longitudinaux q et q₁ pour le passage de l'air froid o Y, Yo, les cloisons J postiches ou non, leurs claires-voies v composées des planches m sur lesquelles sont clouées les tringlettes h et la coupe en double biseau des dites tringlettes; les traverses K et leur pente vers le tuyau n; les planches N formant les rebords longitudinaux du réservoir ou récipient à glace L (et qui est en tôle galvanisée), avec leur inclinaison vers l'intérieur du dit récipient, et que la dite tôle vient recouvrir, et l'application du dit récipient L, tel que placé dans la chambre haute E de la glacière, ainsi que cette chambre E elle-même.

No. 7741. Stove-pipe Elbow Machine.*(Machine à couder de tuyaux de poêles.)*

Charles H. Amann, Columbus, Ohio, U. S., 9th August, 1877, for 5 years.

Claim.—1st. The anvil wheel B consisting of an exterior right cylindrical part i, and an inner part t of the form of a conical frustum, with its larger base next the part i and of larger diameter than the same, in combination with the hammer wheel B₁ consisting of an outer right cylindrical part j and an inner conical part j₁ of less diameter and forming a re-entrant angle with part j; 2nd. In a pipe joining machine the combination with the shafts A A₁ and wheel B₁ having the exterior right cylindrical portion J, the conical portion J₁ and the re-entrant angle between, of the anvil wheel B having the exterior cylinder i, the salient part t and the stop flange m, arranged in contact with the inner face of the wheel B₁ and adapted to form a head on a pipe edge with an oblique flange Q; 3rd. The combination with an anvil wheel, applied upon a shaft rotating in fixed bearings and a hammer wheel on a shaft having movable bearings, of a pressure cam, a lever and a treadle for applying the pressure; 4th. The shaft loosely applied in its bearings at one end and suspended in a vertically movable sash at the other, a connecting rod, a rock cam and an actuating treadle combined; 5th. The spring S in combination with a cam, a lever and a vertically vibrating shaft A₁ having hammer wheel B₁, and a shaft A having anvil wheel B; 6th. The combination with the wheel I having a slightly rounded periphery of the peripherally grooved clamping wheel I₁; 7th. The wheel I having the tapering or bevelled edges p₁ and peripheral grooved p in combination with an anvil wheel I having a slightly rounded periphery.