

**No. 6261. Swiss Bell Piano.***(Piano à clochettes suisses.)*

William H. Wood, Port Rowan, Ont., 10th July, 1876, for 5 years.

**Claim.**—1st. The swiss bells A, suitably arranged within a casing N, and provided with a sounding board M, in combination with the hammers B, pivoted to the frame C, and connected by the struts D, to the keys E; 2nd. The treadle I, connected by the rod H, to the bar F, which is provided with the arms G, in combination with the frame C, carrying the hammers B.

**No. 6262. Improvements on Skate Attachments.***(Perfectionnements aux attache-patins.)*

Charles Brewster (Assignee of Charles G. C. Simpson), Montreal, Que., 10th July, 1876, for 5 years.

**Claim.**—1st. The combination of clamp *g*, cable *k*, and friction block *l*; 2nd. The combination of the clamp *g*, cable *k*, friction block *l*, with bars *e*, and *r*, and screwed spindle *w*; 3rd. The combination of the cable *k*, block *l*, having screwed spindle *a*, bracket *b*, and nut *e*; 4th. The combination of the clamp or clamps *g*, bell crank or bell cranks *a*, and *b*, and bar *e*; 5th. The combination of the clamps *g*, bell cranks *a*, *b*, bar *e*, screwed spindle *w*, and clamps *f*; 6th. The combination of the clamp or clamps *g*, links *a*, *b*, and *c*; 7th. The combination of the clamps *g*, links *b*, and *a*, (the clamps being attached to the extensions of *a*), and bar *e*.

**No. 6263. Improvements on Railway Wheels.***(Perfectionnements aux roues de railroutes.)*

Anson Atwood, Brooklyn, N. Y., U. S., 10th July, 1876, for 5 years.

**Claim.**—1st. A steel or iron tire for railway-wheel having its inner surface, corrugated and presenting a wavy line in cross-section; 2nd. A body for a railway wheel, the outer surface of the rim of which is corrugated, presenting a wavy line in cross-section; 3rd. A body for a railway wheel, having on its rim a flange F, in combination with the pins or projections G, G; 4th. The combination of a tire having a corrugated inner surface with a rim of the central portion of the wheel having a corrugated outer surface forming a chamber between said surfaces; 5th. A fibrous packing for a railway wheel treated with glycerine or its equivalent; 6th. A packing of hemp or other fibrous material when used as an interlocking packing between the corrugated surfaces of the tire and the body of the wheel; 7th. A wrought iron ring shrunk upon and into a dovetail groove formed upon the central portion or body of the wheel; 8th. The combination of a tire having its inner surface corrugated, with a wheelbody having the outer surface of the rim corrugated, both presenting a wavy line in cross-section in combination with an interlocking fibrous packing material *l*, for the purpose of holding the tire upon the central portion or wheel body; 9th. A railway wheel having the tire with its inner surface corrugated and the central portion or wheel body whose rim has its outer surface corrugated, both presenting a wavy line in cross-section forming an annular chamber between the tire and the rim which chamber is fitted with a packing of hemp or other fibrous material interlocking and securing the tire to the central portion or body of the wheel in combination with the pins G, G, and sockets H, H; 10th. A railway wheel composed of the following parts: First, a steel or iron tire with its inner surface corrugated presenting a wavy line in cross-section; Second, a wheel body with its corrugated rim presenting a wavy line in cross-section; Third, a flange on the wheel body with pins or projections which prevent the turning or sliding of the tire upon the central portion or wheel body; Fourth, a fibrous packing which interlocks and secures the tire upon the body of the wheel; Fifth, a wrought iron ring to form a tight joint over the packing.

**No. 6264. Bark Rasping and Cutting Machine.***(Machine à râper et couper l'écorce.)*

Samuel R. Thomson, Portsmouth, N. H., U. S., 10th July, 1876, for 5 years.

**Claim.**—1st. In a bark cutting machine, a rotary cutter composed of collars having teeth projecting from their peripheries and located on a shaft or arbour with the teeth arranged in substantially straight rows or series composed of teeth which are separated by spaces of not less than twice their own width, and spiral rows or series composed of teeth on the successive collars whereby the cutter is adapted to reduce the bark into particles without liability of the teeth becoming clogged; 2nd. The slotted bed plate M, combined with the threaded adjustable standards M<sub>1</sub>, rising from the frame B, and provided with jaw nuts *n*; 3rd. The horizontally and vertically adjustable bed plate M, combined with the rotary cutter A, located in fixed bearings; 4th. The feed roll E, combined with the horizontally and vertically adjustable pivoted arms F, F; 5th. The pivoted arms F, F, having the slots J, J, combined with the threaded standards *t*, having the nuts *o*; 6th. The horizontally and vertically adjustable feed roll E, combined with the rotary cutter A, located in fixed bearings; 7th. The combination of the horizontally and vertically adjustable feed roll E, the horizontally and vertically adjustable bed plate M, and the rotary cutter A, located in fixed bearings; 8th. A feed roll having teeth arranged in parallel peripheral rows and straight longitudinal rows the latter being composed of teeth in alternate peripheral rows; 9th. The adjustable bed plate M, having the downwardly projecting apron *m*, combined with the cutter A, and chute or receptacle C; 10th. The clearer V, attached to the arms F, in combination with the feed roll E; 11th. The hopper T, having the hinged flaps or doors U, U, combined with the feed roll E, and rotary cutter A; 12th. The flap U, hinged to the bed plate M, and adapted either to form an extension of the bed plate or a covering for the side of the hopper.

**No. 6265. Candy Marble Machine.***(Machine à dragées de candi.)*

Bernhard Stern and Herman Stern, Chattanooga, Ten., U. S., 10th July, 1876, for 5 years.

**Claim.**—1st. The combination of the bed C, and pivoted bottom cutter A, whereby the balls may be readily dumped; 2nd. The combination of the bed C, the pivoted bottom cutter A, and the sliding cutter B, provided with guards E, F.

**No. 6266. Improvements on Preserving Fruit, &c.***(Perfectionnements dans la conservation des fruits, &c.)*

Susan Peebles and Elizabeth E. Mefford, Adrian, Mich., and Charles E. Clarke, Chicago, Ill., U. S., 10th July, 1876, for 5 years.

**Claim.**—1st. The mode of preserving fruits and vegetables that is subjecting them without removing the natural juices to the action of sulphurous acid and then drying the same; 2nd. A preparation consisting of dried fruits or vegetables from which the material juices have not been expressed impregnated with sulphurous acid.

**No. 6267. Improvements on Bevels, Try-squares, Level Rules and Compasses.***(Perfectionnements aux sautoirrelles-équerres et règles et compas.)*

William Ascough, Buffalo, N. Y., U. S., 10th July, 1876, for 5 years.

**Claim.**—1st. The combination with the stock A, of the clamp-socket Dr, and the clamp E, said clamp being operated by the set screw F; 2nd. The combination with the stock A, of the receptacles H, H<sub>1</sub>, and the caps I, I<sub>1</sub>; 3rd. The combination with the stock A, of the tongue B, having the tapering knife edge B<sub>1</sub>, clamp socket D, clamp E, and set screw F.

**No. 6268. Improvements in the Process and Apparatus for the Removal of Night Soil.***(Perfectionnements dans les procédés et appareils à enlever les matières excrémentielles.)*

Richard S. Gillespie, New-York, U. S., 10th July, 1876, for 10 years.

**Claim.**—1st. The method of removing night soil and analogous matter by connecting such matter through an air tight conduit with a tight transportable vessel exhausting the air in the latter by a jet and thereby filling the transportable vessel to be taken away and emptied; 2nd. The method of withdrawing night soil and like matter from its receptacle into a transportable vessel and at the same time deodorizing its fetid vapours and gases, which consists in connecting the matter by an air tight conduit with an air-tight transportable vessel, and exhausting the air from the vessel outwardly through its extended outlet, or through that outlet and through either a shower of water or burning matter or through the three namely, an outlet, the water, and burning matter; 3rd. The method of loosening night soil and like matter preparatory to its removal, which consists in forcing a stream of air or water which may be previously disinfected if preferred, and forcing it into the matter to be loosened by a jet of an expansive aeriform fluid, such as steam carbonic gas, or compressed air or water; 4th. The combination of an air tight transportable vessel, an ejector operated by an aeriform fluid, a suction conduit and a valve controlling communication between tank and conduit; 5th. The combination of an air tight transportable vessel, an ejector operated by an aeriform fluid, a suction conduit, a valve controlling communication between such vessel and conduit, with the extended outlet of the vessel, and or with an outlet, and either a condenser or a deodorizer or with such outlet condenser and deodorizer; 6th. The condenser C, consisting of a water chamber, vapour and gas chamber, communicating valve, distributing nozzle, and suitable inlets and outlets; 7th. The combination of pipe I, within or without the cesspool injector B, and pipe H; 8th. The combination of suction pipe F, vessel A, ejector B, gas generator E, pipe b<sub>1</sub>, and suitable valves for controlling the ejection fluid and the sewage.

**No. 6269. Jar Clamp and Cover.***(Vis et couvercle de pot.)*

Francis L. Bodine, Philadelphia, Pa., U. S. (Assignee of Thomas Hipwell), 10th July, 1876, for 5 years.

**Claim.**—1st. A screw clamp or locking device constructed with short hooks, adapted for securing it to the lid, and also to the long hooks, adapted for securing the lid to the jar; 2nd. The combination of the lid B, and screw clamp C, constructed with one or more crooks or bends F.

**No. 6270. Swivel Head for Diamond Drills.***(Griffe de foret à diamant.)*

Milan C. Bullock, Chicago, Ill., U. S., 10th July, 1876, for 5 years.

**Claim.**—1st. The combination of a screw shaft C, and a hydraulic vessel *e*, provided with a gauge *z*, which indicates the pressure of the drill carried by said screw shaft upon the rock; 2nd. The combination of a screw shaft C, and a hydraulic vessel *e*, provided with a gauge *z*, which indicates the weight of the drill rod carried by said screw shaft; 3rd. The combination with the hydraulic cylinder *e*, of the roller G, and discs *a*, *a*, one of which is fitted to slide in said cylinder like a piston; 4th. The combination with the screw shaft C, feed nut F, counter-shaft M, and gears N, and O, of the gears K, L, hubs *m*, and movable plunger S, with its key *g*; 5th. The combination with the hubs *m*, *m*, *m*, and gears L, L, L, of the slotted counter shaft M, plunger S, keys *g*, and K, stripping handle R, hubs *u*, *u*, and ring T; 6th. The combination with the hub W, secured to the bearing Dr, of the counter shaft M, and movable plunger S, with its key *g*.

**No. 6271. Horse-shoe Nail Machine.***(Machine à clou à cheval.)*

John B. Wills, Keeseville, N. Y., U. S., 10th July, 1876, for 5 years.

**Claim.**—1st. The combination of the dies *m*, *n*, *u*, *g*, and *z*, with header *c*; 2nd. The combination of the dies *m*, and *n*, with the header *c*; 3rd. The combination of the die *u*, with spring *d*; 4th. The combination of the dies *u*, and *v*, for cutting and gauging; 5th. The combination of the die *v*, for the plate to abut against, with a guide *g*; 6th. The combination of the dies *u*, and *v*, having surfaces 1, 2, 3, 4, 5, with the die *z*, having surfaces 1, 2, 3, 4, 5; 7th. The combination of the dies *u*, and *v*, having surfaces 1, 2, 3, 4, 5, die *z*, having corresponding surfaces 1, 2, 3, 4, 5, with die *g*, having surfaces 1, 2, and 3.

**No. 6272. Improvements on Sap Evaporators.***(Perfectionnements aux évaporatoires de sucreries.)*

John P. Baldwin, Barnston, Que., 10th July, 1876, for 5 years.

**Claim.**—1st. The pan B, having its bottom ribbed or corrugated to form independent chasms *e*, within and without the pan; 2nd. The pan B, having