

No. 19,722. Reaper Knife Section Sharpener. (*Rémouleur pour Couteaux de Faucheuses.*)

Porter Williams, London, Ont., 4th July, 1884; 5 years.

Claim.—1st. The frame F provided with slots *a, a*, substantially as shown and described and for the purpose specified. 2nd. The knife-holder H, constructed in two parts *x, x1*, connected together with a swivel joint, substantially as shown and described. 3rd. The combination of the elevated boxings B, B provided with slots *a1, a1*, with the frame F, shaft *d2* and upright U, substantially as shown and described and for the purpose set forth. 4th. The combination of the upright U provided with bevelled edge N1 and slot U1, and vertically adjustable box B1 provided with bevelled inner face N2, with the wrist pin P, eccentric wheel *v* and eccentric slide E1, substantially as shown and described and for the purpose specified. 5th. I. a reaper and mower knife section sharpener, the combination of the driving cog-wheel C2 provided with set screw *e3*, with the shaft *d2*, bearings *e3* and thumb screw *h4*, substantially as shown and described and for the purpose specified. 6th. In a reaper and mower knife section sharpener, the combination of the rest R, with the forked knife-holder H and vertically adjustable box B1, substantially as shown and described and for the purpose specified.

No. 19,723. Device for Instruction and Amusement. (*Appareil pour Instruire et Amuser.*)

James D. Van Bibber, Springfield, Mo., U.S., 4th July, 1884; 5 years.

Claim.—1st. A device for instruction and amusement, composed of a box D having a cover A marked off in the square of an odd number of squares, combined with a frame C composed of hinged pieces *c, c2, c3*, etc., and blocks numbered consecutively equal to the number of said squares, all substantially as shown and described. 2nd. The combination of a box D, with a cover A off in squares, a frame C having parts *c, c2, etc.*, which expose the square of an odd number of squares as 3, 5, 7, or 9, etc., squared and blocks numbers consecutively, substantially as shown and for the purpose set forth.

No. 19,724. Fountain Shoe Brush.

(*Brosse-Fontaine à Souliers.*)

Pierre Côté, St. Hyacinthe, Que., 4th July, 1884; 5 years.

Claim.—1st. A box or reservoir for liquid blacking provided with a capped filling hole, a circular or other rim to receive and retain the back of a blacking brush, and having a central spout or tube penetrating the back of the brush, the inner orifice of said tube closed by a valve secured upon a spring-lever operated by a lever at the outside of the reservoir and communicating with the valve lever by a pin, in combination with a brush A provided with handle A1. 2nd. In combination, with a handled brush A, a reservoir B secured thereto and provided with a seat C having a spout or tube C1 passing through the back of the brush D seated therein, and allowing the contents of the reservoir to saturate the brush material at will by the operation of the lever F controlling a valve E. 3rd. The combination of the reservoir B having a tube or spout C1, the internal aperture of which is closed by a valve E secured upon a spring-lever E1, which is controlled by the hand lever F communicating therewith by a pin *f*, all substantially as shown and described and for the purpose set forth.

No. 19,725. Manufacture of Cartridges.

(*Fabrication des Cartouches.*)

La Société Anonyme Dynamite Nobel, Iseten, Switzerland (assignee of François Barbe, Paris, France, 4th July, 1884; 10 years.

Claim.—The manufacture of solid water-proof cartridges from granular and other explosives, by bringing the explosive to a cylindrical form, immersing the solidified explosive either uncovered or enclosed by an envelope in a melted water-proofing composition of the kind above indicated, and then wrapping the explosive while hot in an envelope which has been previously treated or prepared with a similar composition, substantially as and for the purpose described.

No. 19,726. Compound for Table and Other Uses. (*Composition pour l'usage de la Table et autre.*)

Robert Heron and Alexander Bourgeau, Montreal, Que., 4th July, 1884; 5 years.

Claim.—As a new article of manufacture, a compound composed of ground rice, celery seed, Zanzibar chillies, white pepper, powdered sugar and salt, substantially in the manner and for the purposes described.

No. 19,727. Utilization of Birch Bark.

(*Utilisation de l'Ecorce de Bouleau.*)

Eugène Guay and Auguste David, Montreal, Que., 4th July, 1884; 5 years.

Claim.—1st. As a substitute for leather, the use of birch bark, in the manner set forth. 2nd. Birch bark having a facing of leather cemented thereto. 3rd. Birch bark having a facing of leather cemented thereto, and passed between calendar rollers to impart solidity and finish. 4th. A number of shaped layers of birch bark laid transversely to each other, the layers united by cement and by nailing or rivetting. 5th. One or more shaped layers of birch bark faced with leather and united by stitching. 6th. As a new article of manufacture, one or more layers of birch bark having a facing of leather cemented thereto, all substantially as described and for the purpose set forth.

No. 19,728. Hay Carrier. (*Monte-Foin.*)

Ambrose L. Jordan and Richard C. Jordan, Ottawa, Ont., 4th July, 1884; 5 years.

Claim.—1st. The sectional carrier having the rectangular channel or recessed opening extending upward from its bottom, the crescent-shaped and top heavy carrier hook *m* having the shoulder *n*, the latch lever P having the shoulder *n1*, and the longitudinal under recess or groove *v1* and the looped pulley block *q* and catch R, substantially as specified. 2nd. The combination, with the under grooved latch-bar having the shoulder *u1* and the bevelled catch end projecting from the carrier body, of the top heavy carrier hook having the forwardly projecting upper end and the shoulder *d* and the catch block R, substantially as specified.

No. 19,729. Pigeon Hole. (*Boulin à Pigeon.*)

Harry D. Purcell and Oliver H. Saxton, Washington Court House, Ohio, U.S., 4th July, 1884; 5 years.

Claim.—1st. A nest of pigeon holes whose enclosing vertical walls and partitions project slightly in front of the horizontal partitions, and have vertical grooves on each side containing sliding shutters resting edge upon edge, in combination with a door, substantially as set forth. 2nd. A nest of pigeon holes, whose enclosing vertical walls and partitions project slightly in front of the horizontal partitions, and whose vertical grooves contain sliding shutters resting edge upon one another, in combination with a hinged door provided with a rear lug or projection, as and for the purpose set forth. 3rd. A nest of pigeon holes, whose enclosing vertical walls and partitions project slightly in front of the horizontal partitions, and are grooved for sliding shutters which rest upon one another edgewise, in combination with a hinged door provided with a rear lug or projection and a lock, substantially as and for the purposes set forth. 4th. In a nest of pigeon holes, the combination of a case A, forwardly projecting and grooved vertical walls and partitions B, horizontal partitions C, slides D, buttons E and hinged door G having the rear lugs I, lock J and prop L, substantially as set forth.

No. 19,730. Harness Buckle. (*Boucle de Harnais.*)

James A. Gavitt and Charles F. Wightman, Walla Walla W.T., U.S., 4th July, 1884; 5 years.

Claim.—1st. The combination, with a buckle frame A having end bar *a*, of the curved tug frame E passing under the end bar and up through the buckle, and having the stud *c* adapted to enter the perforations of the trace, substantially as described. 2nd. The combination of the buckle frame A having loops C, C and D and end bar *a* with perforated plate portion, and the tug frame E, curved as described, and having stud *c* adapted to pass through the trace and the perforated plate beneath, substantially as shown and described.

No. 19,731. Beer Pump. (*Pompe à Bière.*)

Joseph E. Beauchemin, Sorel, Que., 4th July, 1884; 5 years.

Réclame.—En combinaison réciproque pour constituer ma nouvelle pompe foulante et aspirante, le recipient A et la membrane B munie ou non munie d'un ressort S, en spirales coniques, la soupape automatique P et le robinet à trois voies H, le tout tel que décrit ci-dessus et pour les fins indiquées.

No. 19,732. Grain Drill. (*Semoir en Lignes.*)

William P. Shortridge, Jr., and William P. Shortridge, Easton, Mo., U.S., 4th July, 1884; 5 years.

Claim.—1st. The cutter-frame W W1 mounted in standard S S1 secured to the main frame A, whereby the cutter-frame is adjustable independent of the main frame, as set forth. 2nd. The combination, with the cutter-frame, of the curved springs *m* secured directly to the boots M, as set forth. 3rd. The frame A having standards S, S1, S11 having slots *t*, in combination, with the cutter-frame W W1 provided with brackets *r*, as set forth. 4th. The cutter-frame W W1 having slots W W1, in combination, with the cutters X, Y, M and curved spring *m*, as set forth. 5th. The cutter-frame W W1 having extensions 38 and 39, provided with connecting-rods 40 and 41, as set forth. 6th. The combination, with the main frame A having levers 43 and 45, as set forth. 7th. The combination, with the boots M, springs *m* and cutter-frame W W1, of the cutter Y having cut away portion 13, as and for the purpose set forth. 8th. The boot M having lug 10, slot 11, set screw 12 and spring 12r, in combination with cutter Y and spring *m*, as set forth for the purpose set forth. 9th. The cutter-frame W W1 having slots W1, W1, in combination, with the boots M, spring *m*, cutter Y and adjustable brackets X, as set forth. 10th. The tongue U and double-tree 23 pivotally secured thereto by the bolt 4, in combination with the clevis 5 having a series of holes 7 and secured to the double-tree by bolts 6, as and for the purpose set forth. 11th. The cutter-frame W W1, tongue U having angle-plates *u, u* and standards *s, s1, s11*, as in combination with the main frame A having brackets S, S1, S11, as set forth for the purpose set forth. 12th. The cutter-frame having extensions 38 and 39 provided with connecting-rod 40, in combination with the main frame A having adjustable cross-bars 60, and block 46 mounted the levers 43 and 45 having connecting-rod 47, and block 46 provided with rear extension 52, as and for the purpose set forth. 13th. The combination, with the cutter-frame, of the lever 49 having slot 42, the lever 45, block 46 and connecting-rod 47 having toe 43 and the check 50, as set forth. 14th. In a grain drill, the main driving shaft C having loosely-mounted wheels *c*, adjustable collars *c1, c2*, clutch F and spring G, as and for the purpose set forth. 15th. In a grain drill, the shaft C having grooves *u1*, clutch F and key A, in combination with the wheels *c, c1*, springs G and collars *c1, c2*, as and for the purpose set forth. 16th. The shaft C having grooves *u1*, collar *d1* and clutch D1 having annular recess *d*, in combination with the sprocket-wheel D and hand-lever E, as and for the purpose set forth. 17th. The frame A having slot 25, holes and braces 20, 20r, in combination with the standard 23, frame 22, 22r and seat-rail 19, having plate 36, and seat-carriage 28 provided with rollers 30, 30r, extension 31, lever