

No. 4722. JOHN OUTERSON, and ANDREW OUTERSON, Windsor Locks, Ct., U. S., 15th May, 1875, for 5 years: "Improvements on Filters." (Perfectionnements aux filtres.)

*Claim.*—1st. The use and application of disintegrated and cleaned paper making stock (not including pulp) to the purpose of a filter; 2nd. The containing vessel described having the shelf *c*.

No. 4723. HENRY A. PAYNE, Adams, N. Y., U. S., 15th May, 1875, for 5 years: "Improvements on Hub Boxes and Bands." (Perfectionnements aux boîtes et aux frettes de moyeux.)

*Claim.*—1st. The bar *B*, formed on the box *B*, and having a bevelled flange *a* and *c*, and *r*s *b*; 2nd. The combination of the cap band *C*, having bevelled flange *c*, with the band *B*, and hub-box *B*, the band having bevelled flange *a*.

No. 4724. WILLIAM R. BARTON, Georgetown, and CLARENCE E. BARTON, Cambridge, Mass., U. S., 15th May, 1875, for 5 years: "Improvement on Welt Knives." (Perfectionnements aux tranchets à trépointes.)

*Claim.*—1st. The haft *A*, provided with the head-stock *B*, the knife *D* provided with the flange *E*, the clamp *G*, provided with the lip *F*, and the finger *I*, provided with the guard *J*; 2nd. The curved cutting edge *K*, and point *e*; 3rd. the burisher *M*, *L*.

No. 4725. AARON L. COREY, and EDWARD W. GRANT, Ypsilanti, Mich., U. S., 15th May, 1875, (Extension of Patent No. 4643), for 5 years: "Chain Pump Bucket." (Godet de Pompe à chapelet.)

*Claim.*—1st. The elastic chain pump bucket *A*, having the annular groove *a*, 2nd. The hub *B*, nut *c*, screw eye bolt *d*, and washer *e*, in combination with an elastic expansible pump-bucket *A*.

No. 4726. AARON L. COREY, and EDWARD W. GRANT, Ypsilanti, Mich., U. S., 17th May, 1875, (Extension of Patent No. 4643), for 5 years: "Chain Pump Bucket." (Godet de pompe à chapelet.)

No. 4727. BENJAMIN TOLTON, and ANDREW TOLTON, Eramosa, Ont., 18th May, 1875, for 5 years: "Harvester Attachments for Cutting Pease." (Disposition des moissonneuses pour les pois.)

*Claim.*—1st. The guards *F*, having a hinged connection with the pinion rod *D*, and constructed with a slot *b*, for receiving the point of the guards *B*; 2nd. The attachable bar *C*, bolted to the cutter bar *A*, having a pinion rod *D*, for hinging the guards *F*; 3rd. The reversible or changeable platform *J*, having attachable connection with the pinion rod *D*.

No. 4728. PHINEAS P. MAST, Springfield, Mass., U. S., 18th May, 1875, for 5 years: "Improvements on Feeding Mechanism for Grain Drilling Machines." (Perfectionnements aux mécanismes d'alimentation des semoirs-traçeurs.)

*Claim.*—1st. A force-feed for grain drilling machines, consisting of two vertical rotating discs or wheels so arranged that the grain passes between them in a continuous stream and that the distance between them may be increased or diminished at will in order to vary the rate of feed, and to adapt the machine for feeding different kinds of grain; 2nd. In combination with a feed cup or case *A*, two vertical feed wheels or discs *B*, and *C*, one or both made adjustable laterally in relation to the cup and to each other; 3rd. In combination with the cup or case *A*, the vertical rotating discs or wheels *B* and *C*, the former being movable laterally in the cup, and the latter being provided with the peripheral groove *b*, and held from moving laterally by the screw or pin *c*, entering the groove; 4th. In combination with the feed wheel or disc *C*, the disc *B*, provided with the hub *d*, passing through the disc *C*; 5th. The laterally adjustable disc *B*, provided with the corrugated face and the polygonal hub, in combination with the disc *C*, also provided with the corrugated face.

No. 4729. WILLIAM R. BARTON, Georgetown, and CLARENCE E. BARTON, Cambridge, Mass., U. S., 18th May, 1875, for 5 years: "Peg Cutter Handle." (Manche de couteau à couper la cheville.)

*Claim.*—The peg cutter handle *A*, provided with the rest *D*, and haft *B*.

No. 4730. DAVID McDONALD, Hamilton, Ont., 18th May, 1875, for 5 years: "Door Fastener." (Ferme-porte.)

*Claim.*—The combination of plates *A*, *B*, *C*, *D*, united by rivet *E*, the plate *B*, recessed at *e*, and the plate *C*, provided with points *F*, *F*.

No. 4731. THOMAS I. ROBERTSON, Madison, N. Ca., U. S., 18th May, 1875, for 5 years: "Improvements on Tobacco Presses." (Perfectionnements des presses à tabac.)

*Claim.*—The clamp formed of two blocks *A*, *B*, made of hard wood notched across the grain upon their inner sides, and held together by two or more bolts *C*.

No. 4732. JOHN ABELL, Woodbridge, Ont., 18th May, 1875, for 5 years: "Improvements on Reaping Machines." (Perfectionnements aux moissonneuses.)

*Claim.*—The combination of the notches *D* and *D*, on the standard with the handle *E*, or the equivalent on the cam.

No. 4733. JOHN B. JONES, Montreal, Que., 18th May, 1875, for 5 years: "Improvement on Railway Signals for Level Crossings." (Perfectionnements aux signaux de railroutes pour les traverses sur terrain plan.)

*Claim.*—1st. In combination with the bell *A*, the clapp *r*, bar *b*, guide *c*, and spring *h*; 2nd. In combination with the bar *b*, the notch *g*, lever *d*, pivot *e*, spring *j*, and cord *f*; 3rd. The combination of the bar *b*, pin *l*, and spring *k*; 4th. In combination with the cord *f*, the collar *t*, lever *s*, spring *u*, and shaft *n*; 5th. In combination with the rail *c*, the lever *o*, having toe *p*, block *m*, having stop *q*, shaft *n*, and spring *r*.

No. 4734. WILLIAM J. COPP, Hamilton, Ont., 18th May, 1875, for 5 years: "Improvements on Cooking Stoves." (Perfectionnements aux poeles de cuisines.)

*Claim.*—The front hollow cold air duct *B*, in combination with the air chamber *C*, down ports *D*, and ducts *E*.

No. 4735. JAMES H. ASHDOWN, Renfrew, Ont., 18th May, 1875, for 5 years: "Improvements on a Machine for Tilting Barrels." (Perfectionnements à une machine à pencher les fûts.)

*Claim.*—1st. The application of the lever *d*, with cogs *E* and *F*, and ratchet *G*; 2nd. The combination of the rack *G*, and pinion *K*, with the tilting frame *b*.

No. 4736. MOSES JOHNSON, Lockport, N. Y., U. S., 18th May, 1875, for 15 years: "Improvements on Hoes." (Perfectionnements aux houes.)

*Claim.*—1st. The contracted portion *b*, of a hoe curved transversely; 2nd. Bars *B*, *B*, combined with the contracted curved portion *b*.

No. 4737. WELLINGTON WARREN, Chicago, Ill., U. S., 18th May, 1875, for 5 years: "Improvements on Centre-piece." (Perfectionnements aux rosaces.)

*Claim.*—A centre-piece for ceilings, composed of one or more pieces of sheet metal spun or struck up in dies, and painted or coloured to form a complete substitute for the ordinary stucco centre-piece.