

No. 7053. Improvements on Horse Collars.*(Perfectionnements aux colliers de cheval.)*

Ezra Stroud, Riceford, Min., U. S., 9th February, 1877, for 5 years.

Claim.—1st. The combination of adjustable clasps, at the upper part of the hame, with a lateral connecting link swinging forward and backward in a seat or eye of the pad; 2nd. The combination of the adjustable hame clasps passing through slits of the upper ends of the collar with a swinging jointing link to form flexible connection of collar and hame section with pad; 3rd. The combination of the hame section with a compound draft eye formed of outer stay bolts, secured through the hame and intermediate stay bolts attached to the face of the hame, said stay bolts supporting in eyes a detachable closing rod; 4th. The combination of a flexible jointed and perforated hame strap of one hame section with the guide loops and locking spring pin and socket of the other hame section.

No. 7054. Pocket Match Safe, Pin Cushion and Receptacle for Postage Stamps.*(Porte-allumettes, palette à épingles et porte-timbre-poste de poche.)*

Irving C. Cowles, Syracuse, N. Y., U. S., 9th February, 1877, for 5 years.

Claim.—Match safe A B C having on half of one of its sides a pin cushion D, and on the other half of the same side a receptacle for postage stamps F.

No. 7055. Art and Process of Finishing and Mounting Photographic Portraits.*(Art de finir et monter les portraits photographiques et procédé pour cet objet.)*

Frank N. Forster, Hamilton, Ont., 9th February, 1877, for 5 years.

Claim.—1st. The paste or composition used to attach the photograph to the convex glass consisting of a mixture of starch and nitrate of strontia; 2nd. The entire removal of the paper backing, leaving only the albumen and silver attached to the glass; 3rd. The immersion of the picture thus attached and treated in a bath of melted paraffine.

No. 7056. Improvements on Ozone Machines.*(Perfectionnements aux machines à ozone.)*

Hannah Milson, Buffalo, N. Y., U. S., 9th February, 1877, for 5 years.

Claim.—1st. The ozone machine constructed with the base B, with the tube opening or openings *a* at therein, the tube or tubes A with phosphorous holder *b* thereon, or other tubes wherever placed, the separating ozone chamber C and with or without a cap D; 2nd. The process of making ozone which consists in passing the ozonized fumes involved (by partly submerging the phosphorans in water) through the unglazed or porous earthenware walls of the enclosing chamber A C E, whereby the ingress of air by diffusion and the separation of the acid fumes is effected; 3rd. In an ozone machine any of the parts constructed of glazed or unglazed porous earthenware or other porous puttery or graphite, so that a free ingress of air and egress of ozone may be had through the same.

No. 7057. Tree and Post Hole Digger.*(Appareil à percer les trous pour les arbres et pieux.)*

William H. Rhodes, Elyria, Ohio, U. S., 9th February, 1877, for 5 years.

Claim.—A tree and post hole digger composed of two parts or levers pivoted together and constructed with metal foot pieces B B formed with curves *f f*, supported and stiffened by one or more braces, and having the blades C C secured to them.

No. 7058. Improvements on Stove Pipe Collars.*(Perfectionnements aux douilles de tuyaux de poêles.)*

Henry Wandby, Toronto, Ont., 9th February, 1877, for 5 years.

Claim.—1st. The metallic casing E rivetted to the cast iron top A and tapered therefrom, in combination with the non-conducting material C; 2nd. The circular rib d, moulded near the bottom of the pipe hole, in combination with the stopper D.

No. 7059. Machine for Thinning Turnips, Carrots, &c.*(Machine à éclaircir les navets, carottes, &c.)*

Joshua Carlton, Greenock, Ont., 9th February, 1877, for 5 years.

Claim.—The adjustable runners R adjusting lever D D, hasp E E and cutters B, in combination with the frame J, driving wheels O O, spur wheel *g g*, pinion *f f*, shafts C and *h* and thills *k k*.

No. 7060. Apparatus for Drying or Moistening Wheat by Steam.*(Appareil à sécher ou humecter le blé par la vapeur.)*

James W. Price, Michigantown, Ind., U. S., 9th February, 1877, for 5 years.

Claim.—1st. An apparatus for drying or dampening grain combining in its construction heated plates D F over which the wheat flows exposed to the heat of steam in chambers I and K and adjustable openings between such steam chambers for drying the wheat without moistening it, or first drying and then moistening it at the will of the operator; 2nd. In combination with the steam and wheat chambers the adjustable hoods and angles N and P for holding water and admitting or shutting off steam to or from the wheat; 3rd. In combination with the steam and wheat chambers and water angles N and P, the rod E, hoods M and O and telescope joint F F O for controlling the communication between the steam and wheat chambers.

No. 7061. Improvements in Lightning Rods.*(Perfectionnements aux paratonnerres.)*

John C. Schoonmaker, Hamilton, Ont., 9th February, 1877, for 5 years.

Claim.—Forming a lightning conductor by drawing a continuous ribbed tube A over a continuous plain tube B.

No. 7062. Improvement in Ash Sifters.*(Perfectionnement dans les cribles à cendres.)*

Peter W. Peckham, New York, U. S., 9th February 1877 for 5 years.

Claim.—The open cylinder K in combination with cross piece F with rods J perforated disk C with rod d and handle *e* and casing A with fret on rollers B.

No. 7063. Machine for Washing and Wringing Clothes.*(Machine à laver et essorer le linge.)*

Mary A. Caldwell, North East, Pa., U. S., 9th February 1877, for 5 years.

Claim.—1st. In combination with a box or vat A in which operates a rubbing device, a lever wringer composed of the rollers O O, stirrup irons P P bar Q, levers R S and links *q r* when the same has for its frame work the upwardly extended legs B; 2nd. In combination with a tub or vat A or equivalent, the curved wash board C, swing D with rock bar K and spring L, operating in the slot M in the standard E. Said swing being provided with a rubbing device composed of the rollers F F and brush G (or either of them) 3rd. In combination with the legs B or other standards a lever wringer composed of the rollers O O, stirrup irons P P bar Q levers R S and links *q r*.

No. 7064. Manufacture of Service Boxes.*(Fabrication des boîtes de lieu d'aisance.)*

Robert Mitchell, Montreal, Que., 9th February, 1877, for 5 years.

Claim.—The art or process of manufacturing service boxes by first forming in one casing the body of the box with a rim to form the edge of the top plate, and in another casing a plate or cover exactly fitting the opening in the box and having round its edge an upwardly projecting flange and then fusing the metal in this flange so as to joint the parts together and complete the article.

No. 7065. Machines for Finishing Horse Shoe Nails.*(Machines pour finir le clou à cheval.)*

Charles W. Woodford, Montreal, Que., 9th February, 1877, for 5 years.

Claim.—1st. The segmental dies *m* having acute angles space *m*; 2nd. The combination of the wheel *p* with hooks *r* having slits *u*; 3rd. The hooks *r* in combination with the cup *e*; 4th. The segmental dies *m* having bevels forming acute angle recess *n*, in combination with the punch *o*; 5th. The combination of the vibrating rest *g*, with dies *m*; 6th. The combination of the dies *m*, punch *o*, spring *d* and spring *b* having pawl *e* pivoted thereto.

No. 7066. Improvement in Lightning Rods.*(Perfectionnement dans les paratonnerres.)*

James M. Davies, Hamilton, Ont., 9th February, 1877, for 5 years.

Claim.—A lightning conductor constructed in star-shaped points *a a a a* a form a continuous sheet of metal A.

No. 7067. Improvements on Grain Drills.*(Perfectionnements aux traicurs à grains.)*

William H. Nauman, Dayton, Ohio, U. S., 9th February, 1877, for 5 years.

Claim.—1st. In combination with the rocking bars C the end plates D d E e D' e' and connecting rod F, whereby said bars C C are caused to oscillate simultaneously but in opposite directions; 2nd. The clip O made either in one or in more pieces and provided with a channel P and groove R r, which latter receives the staple S S that couples said clips to the rocking bar C, and also serves as a bearing for the perforated head of the drag bar M or its equivalent device; 3rd. The longitudinally shiftable but non-rotatable cylinder G₂ in conjunction with a fixed seed cup C, and a rotating feed wheel; 4th. The combination of cup C, feed wheel L, *c*, non-rotatable and adjustable sleeve F₂ F₂, the latter being made either in one piece or in sections and longitudinally shiftable but non-rotatable cylinder G₂; 5th. The combination of cup C, feeding device L, *c*, rotary sleeve F₂ F₂, non-rotatable cylinder G₂ and the adjusting appliances I, *r*, L, *l*, *l*; 6th. In combination with a series of fixed cups C, feed wheel E, *e*, non-rotatable cylinders G₂ L, *l*, J₂ and shaft D₂, the bar *k* passing through the cups C₂ to serve as a bridge at the top of the same, and for the simultaneous and uniform adjustment of said cylinder.

No. 7068. Improvements on Holdbacks for Carriages.*(Perfectionnements aux rayots de carrosses.)*

Chamberlayne Phelps, Hensselaer Falls, N. Y., U. S., 9th February, 1877, for 5 years.

Claim.—1st. A wedge-shaped plate in combination with a collar adjusted to slide on the plate; 2nd. The plates A and collars D D, the diagonal bearings *d d* for the holdback strap; 3rd. The plate A having concave bearings *b b* and loops C, in combination with the wedge-shaped collars D D having left and right diagonal strap bearings *d d*.

No. 7069. Improvements on Desks.*(Perfectionnements aux pupitres.)*

Robert W. Simpson, Montreal, Que., 9th February 1877 for 5 years.

Claim.—The desk A B in combination with the blotting pad F F.

No. 7070. Improvements on Spring Bed Bottoms.*(Perfectionnements aux fonds de lits à ressorts.)*

Horace J. Beemer, Montreal, Que., 9th February 1877, for 5 years.

Claim.—1st. In combination with a spring bed bottom formed of a warp and a woof of spiral springs, the fastenings D for securing the ends of the warp to the cross pieces of the frame; 2nd. The fastener D with hollow *d* groove *e* and curled end *f*.