

**No. 6642. Pulp Barrel Machine.***(Machine à baril en pâte.)*

George W. Laraway, Port Byron, N. Y., U. S., 11th October, 1876, for 5 years.

*Claim.*—1st. A die or pressure mould for compressing a pulpy material into cylindrical form consisting of an exterior shell whose segments move radially and an interior shell whose segments move spirally; 2nd. A compressing die whose segmental exterior and interior shells are movable independently to and from the position occupied by them when the cylindrical body they form is completed; 3rd. The interior shell constructed of segments hinged together; 4th. The combination of hinged segments *6* with the foot plate *54*; 5th. The combination of the die or pressure mould, the pipe *27* enclosing its lower end and the ring gate *68*; 6th. The combination of the gate *71* and valve *70* with the pipe *27*; 7th. The combination of the segmental interior shell with the core piece; 8th. The combination of the segment supporting plates *29* with the exterior segments *31*; 9th. The combination of the segment supporting plates *29*, segments *31* and press rings *34 35*; 10th. The combination of the exterior segmental shell with the press rings *34 35*.

**No. 6643. Improvements on Ploughs.***(Perfectionnements aux charrues.)*

Sidney Smith, Sr. (as Trustee for the Acton Plough Co., Assignee of William Stephenson), Acton, Ont., 11th October, 1876, for 5 years.

*Claim.*—1st. The beam *A* having clevis head *P*, standard *C*, projections *D E* and bifurcated handles *B B* integrally formed therefrom; 2nd. The beam *A* formed triangular in cross section rearward of the standard *C* and forward of the same of rectangular form, for combining lightness and strength; 3rd. The combination of land side *H* pivoted to the standard *C* near its forward end and provided with loop or keeper *I*, the beam *A*, provided with downwardly projecting arm *D* and the vertical set screw *J*, said screw working in a socket in the lateral portion of the arm and pivoted to the keeper, and the keeper and land side adapted to slide on the arm; 4th. The beam *A* having curved standard *C* whose lower end is provided with a triangular socket formed wholly therein in combination with the share *G* having tapering triangular projection for attachment to the standard.

**No. 6644. Improvements on Lathes for Turning Irregular Forms.***(Perfectionnements aux tours à tourner les objets de forme irrégulière.)*

Alexander Fleck, Ottawa, Ont., 11th October, 1876, for 5 years.

*Claim.*—1st. The disk *D* having yielding arms *e* projectable; 2nd. The expandible elastic or yielding support or rest consisting of the disk *D* having arms *e*, elastic cushions *b* and blocks *g* mounted thereon, and the disk *F* provided with a volute groove *g* which engage with eccentric projections *p* on the blocks *g*; 3rd. The expandible elastic or yielding support or rest having the springs *j* for retracting the arms *e*; 4th. In combination with the rotary frame provided with rotary centres or arbors *I* having spur wheels *m* and spring lever clatch, *M*, the toothed ring *J* and cam *K* attached to the main frame *A* and operating to turn the blanks *A*, and present their different faces to the cutter *C* automatically.

**No. 6645. Manufacture of Vehicle Gearing.***(Fabrication des trains de voitures.)*

James McPhail, Mitchell, Ont., 11th October, 1876, for 5 years.

*Claim.*—1st. The centre bar *A*; 2nd. The stay rods *H H H* and the position and mode of attaching the stay rods to the axles' head block and centre bar by means of shackles; 3rd. The method of combination of the stay rods *H H H* with centre bar *A*, springs *B B*, head blocks *E*, king bolt *F*, yoke or clevis *G*, shackles *I* with axles *D D*.

**No. 6646. Improvements on Skates.***(Perfectionnements aux patins.)*

John M. Lamb, London, Eng., 11th October, 1876, for 5 years.

*Claim.*—1st. Fitting the sole plate to slide forward along the runner to bring the toe clips into a position to admit the sole between them, and back again to draw the clips back until they grip the wide part of the sole; 2nd. Connecting the sole plate to the runner by slotted ear pieces or flanges bent down from the sole plate and taking into horizontal guides formed on the runner to admit of the longitudinally sliding movement of the sole plate; 3rd. In combination with the longitudinally sliding sole plate the laterally adjustable toe clips and the heel grip formed on the end of and in one with the waist portion of the sole plate; 4th. In combination with the longitudinally sliding sole plate, of the lever for sliding it back and forth pivoted to the runner; 5th. Extending the upper extremity of this lever back to form a heel grip; 6th. A skate having a sole plate sliding longitudinally and fitting the heel plate adjustably to the runner.

**No. 6647. Can Opener.***(Machine à ouvrir les boîtes métalliques.)*

Alfred E. Ames, Montreal, Que., 11th October, 1876, for 5 years.

*Claim.*—The head *a* in combination with the projection *e* and blade *f*, whereby the invention is adapted for cutting circular openings or opening approximate to the configuration of the vessel to be opened.

**No. 6648. Improvements in Coal Sifters.***(Perfectionnements aux cribles à charbon.)*

Peter W. Peckham, New York, U. S., 11th October, 1876, for 5 years.

*Claim.*—1st. The rim band handle *D* in combination with the cylindrical vessel *A*; 2nd. The cover *H* with rim *f*, slot *g* and lid *J*.

**No. 6649. Improvements in Ash Sifters.***(Perfectionnements aux cribles à cendres.)*

Peter W. Peckham, New York, U. S., 11th October, 1876, for 5 years.

*Claim.*—The handle *C* in combination with the ash sifter *B* and the cylinder *A*.

**No. 6650. Combined Coal Scuttle and Sifter.***(Panier-crible à charbon.)*

Peter W. Peckham, New York, U. S., 11th October, 1876, for 5 years.

*Claim.*—The circular disc *C* with perforations *e e* and handle *D* with perforated centre piece *d*, in combination with the coal scuttle *A* with the centre rod *b*.

**No. 6651. Bag Turning Machine.***(Machine à tourner les sacs.)*

K. Well S. Judson and Frank H. Van H. Isten, Matteawan, N. Y., U. S., 11th October, 1876, for 5 years.

*Claim.*—In a machine for turning bags inside out, the combination of the cylinder *B* with the adjustable mouth-piece *a*, piston *G* with the valve *h*, crank *I*, shaft *J*, connecting rod *N* and adjustable table *D*.

**No. 6652. Thill Coupling. (Ajustage de limonière.)**

Callender I. Calvert, Philadelphia, Pa., U. S., 11th October 1876, for 5 years.

*Claim.*—1st. The plate *B* having a forwarded projection under the thill to retain the rubber cushion or pad *C*; 2nd. The pin *F* having a key *b*, in combination with the thill *E* and coupling checks *D* having a recess receiving the same.

**No. 6653. Cow-milker. (Machine à traire le lait.)**

Callender I. Calvert, Philadelphia, Pa., U. S., 11th October 1876, for 5 years.

*Claim.*—The thimble *C* having tubes *D* connecting with the tubes *A*, and provided with a plug *E*.

**No. 6654. Apparatus for Treating Wood for the Production of Charcoal, Acetic Acid, Wood Spirits, &c.***(Appareil à traiter le bois pour la fabrication du charbon, de l'acide acétique, esprit de bois, &c.)*

Henry M. Pierce, Detroit, Mich., U. S., 11th October, 1876, for 5 years.

*Claim.*—1st. The combination of one or more tubes or flues having openings into the kiln with dampers shut off and outlet flue, with suitable floors properly inclined and guttered for the withdrawal of the gases and liquid products of combustion from the kiln; 2nd. In combination with a charcoal kiln having flues or tubes with dampers, valves, shut off and outlet, and with suitable floor and gutters, a recovering or separating chamber where the acetic acid is captured directly from the gases, and tubes having stop cocks or trap-connecting such kiln with such chamber and such chamber with the condenser proper, and an exhaustor for withdrawing the gases from such kiln through said chamber and condenser; 3rd. A combination of flues or tubes with dampers, stop cocks and valves with a separating chamber condenser and exhaust fan or projector for preserving the kiln and for relieving the kiln from strain, cracks, &c.

**No. 6655. Combined Asphalt and Wood Pavement. (Parage mixte en asphalte et en bois.)**

David Ewart, Ottawa, Ont., 11th October, 1876, for 5 years.

*Claim.*—The combination of the asphalt *C* with the wood *A*.

**No. 6656. Door and Shutter Fastener.***(Arrête-porte et arrête-persienne.)*

Charles J. Ferguson, Philadelphia, Pa., U. S., 11th October, 1876, for 5 years.

*Claim.*—A pintle *A* to the top of which is pivoted a latch or cross piece *B*, in combination with an eye or socket *A* having one or more vertical slots *d* with which the latch automatically engages.

**No. 6657. Improvements on Turbine Water Wheels.***(Perfectionnements aux roues-turbines hydrauliques.)*

Asa J. Stott and John Fletcher, Philadelphia, Pa., U. S., 11th October, 1876, for 5 years.

*Claim.*—1st. The combination of the cylinder *a*, wheel *i* and chute *k*; 2nd. The wheel *i* having buckets of decreasing area as they descend; 3rd. The wheel *i* having buckets of decreasing incline as they descend; 4th. The chutes formed in *k* having decreasing area as they descend.

**No. 6658. Improvement on Soaps, Pomades, Cosmetics, &c.***(Perfectionnement des savons, pommades, cosmétiques, &c.)*

Frederick J. Cleaver, London, Eng., 11th October, 1876, for 5 years.

*Claim.*—The combining of terobene with soaps, pomades, cosmetics and the like, while such articles are in their liquid or melted condition, whereby they are rendered disinfectants or antiseptics.