

aperture or air conductor I, in the self-feeding tanks S, and the arrangement of the mica M, M, in front of the chimneys at such a distance from the burners as to prevent blacking.

No. 5833. Combined Measure, Funnel and Sprinkling Pot.

(*Mesure, entonnoir et arrosoir combinés.*)

Robert S. Galbraith and William Snow, Montreal, Que., 21st March, 1876, for 5 years.

Claim.—1st. The combination of the vessel *a*, valve *g*, and neck *f*; 2nd. The combination of the vessel *a*, valve *g*, neck *f*, and rose head *g*; 3rd. The vessel *a*, provided with transparent insertion *c*, scale *d*, in combination with valve *g*.

No. 5834. Composition of Matter for Cementing Wood, Stone, Leather or Earthenware.

(*Composé pour coller le bois, la pierre, le cuir ou la faïence.*)

Henry R. Wilcox, Victoria, Vt., U. S., 21st March, 1876, for 5 years.

Claim.—A compound composed of the mixture of glue, whitelead and alcohol dissolved in water.

No. 5835. Machine for Sharpening Horse Shoe Calks.

(*Machine à aiguiser les crampons des fers à cheval.*)

Erastus Gleason and Robert Hamilton, Greenwich, N. Y., U. S., 21st March, 1876, for 15 years.

Claim.—1st. The combination of the standard *B*, having top surface *B*, shoulder *C*, and vertical dove tail groove *C*, with the standard *B*, having projecting top *b*, dovetailed projections *b*, and the slide *C*, having vertical dovetail groove *c*, and operated by the cam lever *D*; 2nd. The combination of the reversible-dies having dovetailed projections *m*, with the standards *B*, *B*, and slide *C*; 3rd. The combination of the standards *B*, *B*, and slide *C*, having dovetailed-groove *c*, and *c*, and removable dies and cam lever *D*, pivoted between the ears *E*, the pitman *f*, and a treadle *g*.

No. 5836. Improvement on Screw Propellers.

(*Perfectionnement des propulseurs à hélice.*)

Elbert B. Porter, Havana, Cuba, 21st March, 1876, for 5 years.

Claim.—A screw propeller constructed with semi-elliptic curved and twisted blades attached at one or both ends to the shaft, and provided with projecting interior and exterior auxiliary blades or wings.

No. 5887. Seed Sower. (*Semoir à graines.*)

James Harris, Fort Erie, Ont., 21st March, 1876, for 5 years.

Claim.—1st. The combination with the stationary seed receptacle *B*, of one or more revolving discharge spout *C*, and suitable actuating mechanism; 2nd. The combination with the rest *A*, and driving wheel *F*, of the seed receptacle *B*, revolving spouts *D*, and endless band *G*; 3rd. The combination with the seed receptacle *B*, provided with an opening in the bottom, and revolving discharge spouts *D*, arranged underneath the same, of the adjustable gate *I*, for regulating the flow of seed to the discharge spouts.

No. 5838. Improvements on Pumps.

(*Perfectionnements aux pompes.*)

William Adair, Liverpool, Eng., 21st March, 1876, for 5 years.

Claim.—Under the first part (*a*) the combination of the parts *a*, *b*, and *d*, *b*; the combination of the part *a*, *b*, *e*, *f*, and *g*; under the second part, the apparatus described under the third part; the construction, arrangement and combination of the parts *x* and *y*.

No. 5839. Machine for Shaving Feathers.

(*Machine à ébarber les plumes.*)

Gilbert M. Richmond, Geneva, Wis., U. S., 21st March, 1876, for 5 years.

Claim.—1st. The combination of the block *A*, and knife *B*, arranged with the tapering space between them; 2nd. In combination with the subject matter of the above claim, the holding plate *D*, for holding the feathers.

No. 5840. Balanced Sash. (*Croisée à contre-poids.*)

William Cooper, Strathroy, Ont., 21st March, 1876, for 5 years.

Claim.—1st. A winding mechanism fastened to the meeting-bar of the lower sash having connection with the pulley-cords or cord, and provided with a ratchet wheel *J*, and pawl *K*; 2nd. The spring catch *L*, for fastening the lower sash.

No. 5841. Device for Upholding Bags.

(*Accroche-sac.*)

John G. Waldo, Cainsville, Ont., 21st March, 1876, for 5 years.

Claim.—1st. The combination of the slide *B*, in spout *A*, the handle *C*, and catch *E*, on the spindle *D*; 2nd. The combination and arrangement of the hooks *G*, *H*, *I*, *K*, with arms-sliding joints *L*, *L*, and connecting rods *F*, *F*; 3rd. The combination of the slide *B*, in spout *A*, handle *C*, catch *E*, on spindle *D*, with the hooks *G*, *H*, *I*, *K*, sliding joints *L*, *L*, and connecting rods *F*, *F*; 4th. The arrangement of the hooks *G*, *H*, *I*, *K*, fastened on the ends of rods *N*, *N*, sliding joint *L*, the long arm of hook *G*, being used as a lever, and acting also as a spring in conjunction with the catch *M*, and attached to a movable spout with or without hopper for use in mills and elsewhere to bag flour or other substance.

No. 5842. Improvements on Locomotives.

(*Perfectionnements aux locomotives.*)

John D. Murray, Sarnia, Ont., 21st March, 1876, for 5 years.

Claim.—1st. The combination of a steam chest *E*, provided with the pipes *H*, *G*, *H*, with the exhaust ports of the engine *C*, and with the smoke box *B*, and stack or blast chimney *B*, of the locomotive; 2nd. The combination of the valves *L*, *K*, *L*, arranged at right angles with each other and attached to the same stem *J*, with the pipes *H*, *G*, *H*, of the steam chest *F*; 3rd. The combination of one or both of the exhaust pipes *H*, *H*, with a steam pipe or pipes communicating with the boiler *A*, whereby the feed water and the cars may be heated when the engines are at rest.

No. 5843. Machine for Conveying Grain.

(*Machine pour transporter le grain.*)

Henry Severn, Davenport, Iowa, U. S., 21st March, 1876, for 5 years.

Claim.—1st. The combination with a grain conveying pipe *B*, of a series of suction fans or pumps *E*, *E*, for creating a vacuum in said pipe, and by suction draw the grain through the same into receivers properly arranged; 2nd. The combination of the air conveying pipe *B*, receivers *A*, *A*, provided with air breakers *c*, *c*, the pipe *D*, and the series of suction fans or pumps *E*, *E*; 3rd. A series of suction fans or pumps *E*, *E*, arranged to communicate from the circumference of one to the centre of the next fan or pump in combination with a grain conveying pipe; 4th. The combination with the suction fans or pumps *E*, of the pipe *G*, tank *H*, pipe *I*, and air pump *J*; 5th. A continuous stream or current of water passing through with the air through a series of suction fans or pumps.