

or around said spindle; 3rd. The combination of the gears *N P* with the hour hand on its sleeve and the alarm trip *Q*, 4th. The combination of the alarm engaging and disengaging spring hook or lever *E* the loose wheel *N* with its attached notched trip *Q*, arranged to rotate in unison with the hour hand of the clock and the independently adjustable alarm setting spindle *M* having a stud or projection *f*.

No. 9589. Lard and Fruit Presses and Sausage Stuffers. (*Presses à fruits et saindou et bourre-saucisson.*)

Simon J. Keim, Catsaquis, Pa., U. S., 22nd January, 1879, for 5 years

Claim.—1st. The combination of the lever having the flanged eccentric with the forcer or plunger having slotted head provided with ears or lugs *d d* and rollers or castors *e e f*, 2nd. In a fruit or lard press and sausage stuffer the combination with the table *A* and hopper *H* having about *S* and interior perforated vessel *V*, or the standard *B* having slot *b b* pivoted lever *L* having flanged eccentric *E*, and plunger *D* having head *C* provided with projections *c, c, lugs d d* and rollers *e e f*, 3rd. The combination of the standard *B* having slot *b b* with plunger head *C* having projections *c, c, lugs d d* and rollers *e e f* and the pivoted lever *L* having eccentric *E* provided with a flange *f* broken at *g* so as to permit the removal of the plunger.

No. 9590. Improvements in Refrigerator Buildings. (*Perfectionnements aux garde-manger.*)

William M. Mixer, New York, U. S., 22nd January, 1879, (Extension of Patent No. 3119), for 5 years.

No. 9591. Improvements on Refrigerator Buildings. (*Perfectionnements aux garde-manger.*)

William M. Mixer, New York, U. S., 22nd January, 1879, (2nd Extension of Patent, No. 3119), for 5 years.

No. 9592. Improvement on Nut Locks. (*Perfectionnement aux serre-croues.*)

Samuel E. St. O. Chapleau, Ottawa, 23rd January, 1879, for 5 years.

Claim.—1st. The combination, with rail *A* having plates *B B*, of a nut lock *D* provided with lock *F*; 2nd. The combination, with lock plate *D* having lock *E*, of a compressor *F*.

No. 9593. Improvements on Book Binding. (*Perfectionnements dans la reliure des livres.*)

Howard M. Hoyt, New York, U. S., 23rd January, 1879, for 5 years.

Claim.—1st. A back of flexible material, bent inwards at the edges, in combination with curved pins *A* adapted to be inserted through the back margin of the matter to be bound and projecting under the bent edges of the back to hold it in place; 2nd. Inserting the binding wires *A* straight and near the back edge of the book, clinching such wires and bending the wires into the arc of a circle.

No. 9594. Improvements in Marble Veneering. (*Perfectionnements dans le placage en marbre.*)

Archibald O. Glass, (Assignee of Thomas Swartwood), Chicago, Ill., U. S., 23rd January, 1879, for 5 years.

Claim.—The method of placing the colours in a composition for artificial marble by the use of a syringe before pouring it onto the surface to be ornamented, consisting of the combination prepared as described, that is to say mix while separate with warm water, glue and sugar of lead, water and afterwards commingle the whole.

No. 9595. Improvements on Piano Pedals. (*Perfectionnements aux pédales des pianos.*)

Louis Mathias, Toledo, Ohio, U. S., 23rd January, 1879, for 5 years.

Claim.—The footstool *A* provided with supplemental pedals *C C* connected by rods *D* to the levers *E* for operating the pedals of a piano.

No. 9596. Improvements on Washing Machines. (*Perfectionnements aux machines à laver.*)

Timothée Bertrand, Montreal, Que., 23rd January, 1879, for 5 years.

Claim.—1st. In an oscillating machine, the friction bars *M M*, metal blocks *m b*, screw bolts *C c*, straps or hooks *C C*, lever *D*; 2nd. The friction box *J*, slot *L* and stop pin *R* in the said box *A*.

No. 9597. Combination for the Manufacture of Boot and Shoe India Rubber Soles. (*Composé pour la fabrication des semelles de chaussures en caoutchouc.*)

Aimé N. N. Aubin, Montreal, Que., 23rd January, 1879, for 5 years.

Claim.—Mixing with the ingredients now used in the manufacture of india rubber shoes, emery or other gritty substances previously covered with an adhesive varnish.

No. 9598. Improvements on Ships Carrying Cattle. (*Perfectionnements aux navires transportant le bétail.*)

Godfrey J. Radolph, Liverpool, Eng., 23rd January, 1879, for 5 years.

Claim.—1st. The combination of the upper and lower decks *b c* of a ship or vessel with stanchions, standards or securing agents, such as *d*, which pass down each side of the neck of each beast; 2nd. The combination of the upper and lower decks *b c* of a ship or vessel with stanchions, standards or

securing agents, such as *d*, which pass down the sides of each beast near its stern or buttocks; 3rd. The combination of the upper and lower decks *b c* of a ship or vessel with stanchions, standards or securing agents such as *d*, 4th. The combination of the upper and lower decks *b c* with the stanchions, standards or securing agents, such as *d d d*, with the feeding trough *m*.

No. 9599. Improvements on Gate Posts.

(*Perfectionnements aux poteaux des barrières.*)

Alfred F. Wright, Toronto, Ont., 23rd January, 1879, for 5 years.

Claim.—1st. A gate and fence post having a watertight compartment in the base *B* formed by the sides and bed plate; 2nd. A gate and fence post with the body or post proper *A*, in combination with the base *B*, the bed plate *e* and cap *C*; 3rd. A gate and fence post constructed with the post proper *A* having perforated transverse strengthening bridges *l l*, guides *R R*, ribs *n n* and socket *A* the base *B* having a collar *b* and watertight compartment and anchor cases *d d* the bed plate *e* having the bar anchors *g g* the combination therewith of the tie bars *f f*, keys *m m*, cotter *di* and anchors *d*; 4th. The keys *m m* as answering the purpose of a key for strengthening structures and the purpose of a hinge bolt on which the gate is hung; 5th. The anchors *d h h*.

No. 9600. Machine for Enriching and Economizing Gas. (*Machine pour enrichir et économiser le gaz.*)

George T. Strong, Port Hope, Ont., 23rd January, 1879, for 5 years.

Claim.—1st. The gas inlet pipe *B*, discharging into the chamber *C* at the top of the float *E* in combination with the tubes *D* for the purpose of conveying the gas down into the hydro-carbon contained in the vessel *A*; 2nd. The float *E* having tube *G* passing through the cork bottom *F* and top chamber *C*, in combination with the pipe *B* and vessel *A* containing hydro-carbon; 3rd. A float *E* supported in hydro-carbon, in combination with the indicator *H* and glass tube *I*.

No. 9601. Improvements on Mill Motors.

(*Perfectionnements aux moteurs de moulins.*)

John Diemert, Belfort, Ont., 23rd January, 1879, for 5 years.

Claim.—1st. The combination of the two rollers *g* and *g g* with guide *h h* and *h h*, and the two weights *r* and *s*; 2nd. The combination of the four pistons *k k k k* and *k k k k* on the arms *m* and *n* fastened to the rollers *g* and *g g* with the arrangement on said pistons, viz: knee *y*, ring *o*, screw *p*, spring *w* protected by the iron cases *z z z z*; 3rd. The combination of the lever *e* on arm *f* fastened at the roller *g* and said lever *e* also fastened at the lower end to the driving wheel *a*, which is connected by belting *b* with pulley *c* on shafting *d*.

No. 9602. Improvements on Millstone Dresses. (*Perfectionnements au rhabillage des meules.*)

Eilbert S. Cox, Jonesborough, Ten., U. S., 23rd January, 1879, for 5 years.

Claim.—The peripheral finishing or flouting plane surfaces *a a* and inclined scouring and cracking bottom surfaces *b b*, in combination with the tangential straight furrows *c c*, shallow and broad at the skirt, running straight to the eye, with constantly increasing depth and decreasing width.

No. 9603. Machine for Cutting Down.

(*Machine à ébarber la plume.*)

Charles Ballinger, White Mills, Pa., U. S., 23rd January, 1879, for 5 years.

Claim.—1st. A revolving feed cylinder or drum for the feathers, intermittently reciprocating grippers and intermittently acting shearing or cutting knives; 2nd. The combination of a revolving wire gauze feed cylinder with interior reciprocating stirrers for causing the stems of the feathers to stick out through the meshes; 3rd. A revolving feed drum or cylinder divided by circumferential bands into narrow sections, each supplying a set of grippers and knives; 4th. The combination of the intermittently reciprocating and opening and closing grippers *D* with a guide support *D* having fixed side knives *E*, and with reciprocating or revolving cutting knives *E*; 5th. The combination of the forked and rack shaped rear arm of the lower gripper finger, and of the weighted and pivoted rear arm of the upper finger with a revolving arm wheel having sectional toothed parts, raised central arm part and centrally grooved part for withdrawing, opening and closing the grippers; 6th. The combination of the extended rear arms of the grippers, the actuating arm wheel constructed as set forth, the retaining side levers and the returning spring and guides to withdraw and retain grippers for cutting off the down from the feathers and return the grippers.

No. 9604. Improvements on Churns.

(*Perfectionnements aux barattes.*)

William Stover, Auburn, N. Y., U. S., 23rd January, 1879, for 5 years.

Claim.—1st. The staff holder *B* constructed with upper and lower sockets *b b*, at one end, and grooved jaws or boxes *f f*, at the opposite end, in combination with the stationary bar *D* up and down, which said holder is free to slide; 2nd. The combination of the locking pin *C* with the joint pin *e*, the upper and lower sockets *b b* of the sliding staff holder *B*, the staff sections *A* and the stationary bar *D*; 3rd. The dasher *H* constructed of slotted radial arms *k*, side bars *l* and solid radial arms *n*.

No. 9605. Improvements on Bit Braces.

(*Perfectionnements aux vibrequins.*)

Charles M. Knowles, New London, Ct., U. S., 23rd January, 1879, for 5 years.

Claim.—The combination with the split spring socket *D* having a conical extremity *G*, of a primary clamping ferrule *G* having a conical interior bearing *h*, and a secondary clamping ferrule *h* having an oval or oblong opening *i* through it and a male screw thread *k* on its exterior arranged to fit a female screw thread *l* on or in the interior of the primary clamping ferrule *G*.