

D, provided with a stem or shank *c* and a spherical or semi-spherical head *f* in combination with the socket *C*, and a keeper for the whip lash; 3rd. A ring or keeper of either snap ring or split ring construction, in combination with a whip lash and a swivel eye.

No. 9095. Improvements in Metallic Shingles.
(*Perfectionnements dans le bardeau métallique.*)

Peter Pierce, Brooklyn, N.Y. (Assignee of Chester Comstock, New Canaan, Ct.) U.S., 6th August, 1878, for 5 years

Claim.—1st. A metallic shingle with a hollow rib *b* and two raised edges *c*, 2nd. A metallic shingle whose underside is made concave lengthwise, 3rd. A metallic shingle with corrugations or turned edges *d*; 4th. A metallic shingle with corrugations *e*.

No. 9096. Improvements on Emery Wheels.
(*Perfectionnements aux tambours à émeri.*)

Gilbert Hart, Detroit, Mich., U.S., 6th August, 1878, for 5 years.

Claim.—1st. An emery, corundum or other composition wheel provided with a metallic brace or braces embedded therein and extending from centre to circumference thereof, whereby the composition of which such wheel is formed, is braced against the centrifugal strain resulting from a rapid rotation; 2nd. An emery, corundum, or other composition grinding or polishing wheel, having embedded therein a concentric reticulated or foraminous metal disc or discs, whereby said wheel is re-inforced in all directions.

No. 9097. Improvement on Harrow Shares.
(*Perfectionnements aux socs des herces.*)

Benjamin Wetherbie, St. Leonor's, P.E.I., 6th August, 1878, for 5 years

Claim.—The employment of a chill bar *B*, conforming to the concavity of the share, and underlying the same in the mould, said bar *B* having a raised edge *C*, following the curvature of the ground edge of the share for forming a chill.

No. 9098. Improvements on Lifting Jacks.
(*Perfectionnements aux crics.*)

Moses Merrick, (Assignee of Lorenzo Meeker,) Oswego, N. Y., U. S., 6th August, 1878, for 5 years.

Claim.—The combination with the tubular standard and the sliding bar *C*, of the lever *F*, the connecting links *d*, and the clutch *E*, consisting of a strap partially encompassing the bar *C*, and a lever or dog *C*, pivoted to both the connecting links and the strap, so as to bite the bar *C*, from its movements upon said tubular standard *A*.

No. 9099. Sled. (*Traineau.*)

Giles H. Crosby, Rome, Ohio, U.S., 7th August, 1878, (Extension of Patent No. 2602,) for 5 years.

No. 9100. Sewing Machine. (*Machin à coudre.*)

Onézime St. Amant and Joseph Woodley, Quebec, Que., 12th August, 1878, (Extension of Patent No. 2641,) for 5 years.

No. 9101. Saw Tooth Swage. (*Presse à dent de scie.*)

John Connor, Philadelphia, Pa., U. S., 12th August, 1878, (Extension of Patent No. 2536,) for 5 years

No. 9102. Improvement in Hollow Augers.
(*Perfectionnement aux évidoirs.*)

George N. Stearns, Syracuse, N.Y., U.S., 12th August, 1878, for 5 years.

Claim.—1st. The combination of the jaws *B B*, pivoted at a point *C* with each other and a body *A*; 2nd. In combination with two jaws pivoted at a joint *e*, the segments *D D'* provided with backs having graduated teeth and pinion *E* operating to centre the jaws automatically at any degree of adjustment and for the simultaneous opening and closing of the jaws; 3rd. The projection *P*, and recess *F* in the jaws; 4th. The adjusting divided hub and binding screw *G*, in combination with each other and the combined gauging shank and stop *H*; 5th. The strap or cap *L* provided with a screw recess on its lower side in which the cutter is fitted and secured to an auger frame *A* by a screw at its inner end, and provided with a slot *M* and screw *N* at its outer end, in combination with an auger frame *A*.

No. 9103. Improvements on Bed Bottoms.
(*Perfectionnements aux fonds des lits.*)

Alfred Gordon, Williamsport, Pa., U.S., 12th August, 1878, for 5 years.

Claim.—1st. A brace composed of two straps *C C*, secured together by a slot and pin, and sliding upon each other, 2nd. The frames *A B*, having cross-straps and rounded corners, and the braces *D D*, made in two parts, adapted to slide upon one another, and inclined in opposite directions from those on the other side or end of the bed bottom.

No. 9104. Improvements on Harrows.
(*Perfectionnements aux herces.*)

Dewitt C. Reed, Kalamazoo, Mich., U.S., 12th August, 1878, for 5 years.

Claim.—1st. The combination with the frame *A*, of a curved harrow tooth made adjustable longitudinally upon its seat for the purpose of raising or lowering its working point, 2nd. The combination with a harrow frame provided with a seat curved of a curved harrow tooth made adjustable longitudinally upon the said curved seat, whereby its working point may be raised or lowered, 3rd. The combination with a harrow frame and harrow tooth, of a clip or its equivalent, for securing the tooth to the frame, and made to bear at its edges upon the harrow tooth, 4th. The combination with a harrow frame provided with a curved seat, of a curved tooth and clip or its equivalent *D*.

No. 9105. Show Card. (*Pancarte*)

Alexander H. Dixon, Toronto, Ont., 13th August, 1878, (Extension of Patent No. 2647,) for 5 years.

No. 9106. Improvements in Oven Stoves.

(*Perfectionnements dans les poêles à fournaux.*)

James Stewart, Hamilton, Ont., 15th August, 1878, for 5 years.

Claim.—1st. In combination with the oven *C* of the continuation *G* of the oven flue *E* over the top of the oven, and provided with opening *I* in plate *F*, 2nd. In combination with the oven *C* of the partition plates *J J* on each side respectively of the opening *I* in the plate *F*, and the arrangement of the dampers *K K* at each end of said openings *I*, whereby said ends may be opened or closed

No. 9107. Washing Machine. (*Laveuse mécanique.*)

William J. Dickson, Truro, N. S., 16th August, 1878, (Extension of Patent No. 2655,) for 5 years.

No. 9108. Railway Switch. (*Aiguillère de railroads.*)

John Hollen and Robert Hollen, Allemania, Pa., U. S., 16th August, 1878, (Extension of Patent No. 2664,) for 5 years.

No. 9109. Mowing Machine Knife Grinder.
(*Rénouleur de couteaux de moissonneuse.*)

John Pike, Montreal, Que., 17th August, 1878, for 5 years.

Claim.—The sickle beam *A* and swivel bracket *E*, in combination with hinged joints *G G*, bolt *aw*, wash nut *F* and screws *H* holding sickle.

No. 9110. Improvements on Churns.
(*Perfectionnements aux charnats.*)

Robert F. Miller, River Falls, (Assignee of Daniel A. Fiske, Hudson, Wis.) U.S., 19th August, 1878, for 5 years.

Claim.—1st. The slide *E* under the cover connected as described, to prevent the cream from spattering out of the vessel, 2nd. The dasher and handle; 3rd. The combination of the slide dasher and handle with any suitable churn tub or barrel, provided with a proper standard or fulcrum for hinging the end of the handle to.

No. 9111. Thread Cutter for Sewing Machines.
(*Coupe-fil de machines à coudre.*)

Henry Pollock, Fredericton, N.B., 19th August, 1878, for 5 years

Claim.—The combination of the bolts *B* and *E*, and their springs and cutting blade arranged and attached to sewing machines, so as to operate in the manner set forth.

No. 9112. Paper Holding Case.
(*Cylindre scree-papier.*)

Benjamin F. Eaton, (Assignee of Alonzo Newbury, J. Cox Sackie, N. Y.) U.S., 19th August, 1878, for 5 years.

Claim.—1st. The knife *h* with a serrated edge and attached to the bearings *d*, in combination with the case or holder for a roll of paper, 2nd. The combination of the tearing knife *h*, bar *l* and case for holding the roll of paper; 3rd. The inclined flanges *t* attached to the inner surfaces of the heads of the paper case and having sockets *n*, in combination with the roll of paper *C* and its rod *m*.

No. 9113. Improvements on Piston Packing.
(*Perfectionnements aux garnitures de pistons.*)

Adolph H. Vitt and Wilson Leiser, Union, Mo., U.S., 19th August, 1878, for 5 years.

Claim.—The combination with the piston rod *A*, of the sectional shell *B* receiving in recesses the cut rings *C* at each end, the band spring *D* in the middle, the end rings *E* and the medium sleeve *D'*.

No. 9114. Improvements on Nut Locks. (*Perfectionnement aux noix de sûreté.*)

Alva T. Hill, Detroit, Mich., U.S., 19th August, 1878, for 5 years.

Claim.—The combination of the nut *A* having the drill hole *a*, the elastic disc *C* and pointed pin *b*.

No. 9115. Improvement on Paper Bags. (*Perfectionnement des sacs en papier.*)

Newton J. Alexander, Austin, Texas, U. S., 19th August, 1878, for 5 years.

Claim.—1st. The oblong rectangular blank for a paper bag for druggists use, the same having slits *a a* at opposite points in its parallel sides and the end projection *b*, 2nd. A paper bag for druggists use having the flap *B* formed in one piece with the body thereof, and extending laterally beyond the side edges of the bag and the narrow oblong body *A*.

No. 9116. Improvement on Wagon Tops.
(*Perfectionnement aux soufflets de voitures.*)

John A. Foiden, Bay City, and James E. Thomas, West Bay City, Mich., U.S., 19th August, 1878, for 5 years.

Claim.—1st. The flanged plate *B* provided with notches *L*, plate *C*, bolt *D* and spring *E*, in combination with seat *A* and bow *R*; 2nd. The bolts *D*, in combination with the cord *F* and pulleys *I*.

No. 9117. Improvements on Grain Distributors. (*Perfectionnements aux élévateurs de grain.*)

John S. Murray and Benjamin Shantz, (Assignees of Cornelius E. Drake) Avoca, Iowa, U.S., 19th August, 1878, for 5 years.

Claim.—A grain distributor for elevator heads, composed of an outer casing with a number of inclined bin spouts and of an interior revolving cylinder with inclined or dishing bottom and spout shaped exit aperture, registering with the bin spouts.