

connection with a thumbscrew to vary the tension of the stitches; 8th. The yarn feeder D arranged in connection with the cams of the vertical and ribbing cylinders in such manner that the feed is always in position to work forward or backward; 9th. The fender M, attached to the yarn feeder, and arranged for the purpose of keeping the ribbing needle latches open while the needles are taking their yarn.

### No. 9130. Improvements on Cultivators.

(*Perfectionnements aux cultivateurs.*)

Moses Johnson and Moses C. Richardson, Lockport, N.Y., U.S., 29th August, 1878, for 5 years.

*Claim.*—1st. The cultivator tooth F made of one sheet of metal bent at right angles, forming a vertical section *h*, corresponding to the land side of a plough which incline rearwardly from the point to the top, and is provided with a rear extension curved in and towards the furrow, and having the horizontal or sharp section *h* with a cutting edge running backward and obliquely from the point; 2nd. The combination of the flaring and oblique sections *h* and *h*; 3rd. The vertical racks *b* for reception of levers AA pivoted at *d*, and wheel standard B provided with axle *e*, for reception of wheels D D; 4th. The lever A, standard B, with axle *e*, and rack *b*.

### No. 9131. Improvements on Quilting Frames.

(*Perfectionnements aux métiers à piquer.*)

Henry Wooley, (Assignee of John Woodard,) Elba, Mich., U.S., 23th August, 1878, for 5 years.

*Claim.*—1st. The combination of the rollers A A, the cross-bars H H to hold the rollers apart, the pawl, E to hold the rollers in position, the pulleys G G, the belt D, for moving the work along as needed and holding the same in position while being worked.

### No. 9132. Improvements on Hydrants.

(*Perfectionnements aux bornes-fontaines.*)

Frederick Jarecki, Erie, Pa., U.S., 30th August, 1878, for 5 years.

*Claim.*—1st. The combination of the valve cases D D and I with spout opening J and valve or piston above H, and the intermediate pipe B with a valve stem C therein, which valve stem bears at its lower end a valve H E, and at its upper end the valve or piston M; 2nd. In combination with the casing I the box R and upright spout J; 3rd. The valve casing D D in combination with valve N E and pipe B; 4th. The valve casing I, with valve or piston M above the spout J, in combination with the valve stem C and pipe B; 5th. A hydrant valve casing or shell, the chamber D D, and waste *d* and valve seat F; 6th. The combination of the shell or casing I, and spout J with the box R and cover N.

### No. 9133. Improvements on Pipe Holders.

(*Perfectionnement aux porte-pipe s.*)

Edward S. May, Campbelltown, N.Y., U.S., 30th August, 1878, for 5 years.

*Claim.*—The spring pipe grip or holder described, composed of the mouth-piece A, having annular shoulder *a* and conical recess *b* and spring tube B, for use interchangeably with a pipe or with a cigar holder in the manner set forth.

### No. 9134. Improvement in Locomotive Boilers.

(*Perfectionnements dans les chaudières des locomotives.*)

John Meredith, Aurora, Ill., U.S., 30th August, 1878, for 5 years.

*Claim.*—1st. The central inclined channel A, when formed by the crown sheet A with convex swell A, and elliptical curves *a* and the side plates *a*; 2nd. The bracing plates C composed of the longitudinal plates C, flanges C, and C; in combination with the convex part A of the crown sheet A.

### No. 9135. Process of Treating Cereals to be Used in Making Beverages.

(*Procédé de traitement des céréales pour la fabrication des breuvages.*)

Silas S. Putnam, Boston, Mass., U.S., 30th August, 1878, for 5 years.

*Claim.*—1st. The process of treating cereals to be used in making table beverages, by steam cooking and drying the grain previous to and then roasting it; 2nd. In preparing wheat to be used in making a table beverage by changing the glutinous matter and extracting the oily granules which fill the angular cells of the surface of the seed proper, and changing the character of the starch corpuscles by means as described, and drying and then roasting the wheat as set forth.

### No. 9136. Improvements on Railway Rails.

(*Perfectionnements aux rails des railroads.*)

Thomas W. Travis, and John A. Pollock, Philadelphia, Pa., U.S., 30th August, 1878, for 5 years.

*Claim.*—1st. A continuous compound rail, composed of two sets of rail bars A A with staggered joints and two sets of gliders B B; 2nd. The combination of the rail bars having recessed ribs *d* with gliders having lugs *m*; 3rd. A pair of clamping blocks adapted to any rail and having arms for being acted upon by a wedge when the rail is subjected to downward pressure; 4th. The tie D having boxes or receptacles with wedge shaped projections S, in combination with clamping blocks J adapted to the rails, and having arms *w* arranged to bear upon the wedges; 5th. The combination of the tie D and its boxes or receptacles E, the clamping blocks J adapted to the rails, and having arms *w*, the wedges *s*, and the elastic blocks F; 6th. The combination of the compound rail, the clamping blocks J and the interposed plate *n*; 7th. The combination of the rail I or gliders B B, having recesses *y* with the clamping blocks J having lugs *z*.

### No. 9137. Improvements on Rafting Booms.

(*Perfectionnements aux estacades flottantes.*)

Levi W. Pond, Eau Claire, Wis., U.S., 30th August, 1878, for 5 years.

*Claim.*—1st. The chain C, in combination with the logs or sections A, and wings B, for connecting the sections together and forming a hinge for the wings; 2nd. The chain C, in combination with the logs or sections A and wings B, and secured to the sections and wings by the end toggles *a* and intermediate toggle *b*; 3rd. A boom consisting of the logs or sections A, wings B, chain C, and brace D.

### No. 9138. Improvements on Fruit Parers.

(*Perfectionnements aux peleurs de fruits.*)

George R. Thompson, Quincy, Ill., U.S., 30th August, 1878, for 5 years.

*Claim.*—1st. A hinged or pivoted lever carrying the fork, the parer and mechanism for operating the same; 2nd. The combination of a hinged or pivoted lever carrying the fork and the parer, and a stationary quadrant with a cogged segment for operating the same; 3rd. A stationary base, with coring and slicing devices attached thereto, and hinged or pivoted lever, carrying the fork and parer; 4th. The combination of the stationary quadrant D, with cogged segment *a*, lever C, shaft *d* with gears *b* D, fork E with pinion *e*, gear wheel H, paring arm I and spring *n*; 5th. The combination of the paring arm I, finger I, and cam *p*; 6th. The plate *h*, with stem *f* in combination with the fork E and lever G; 7th. The projection *l* in the piston *b*, in combination with the guide *w*, on the quadrant D.

### No. 9139. Improvements on Mashing Machines.

(*Perfectionnements aux machines à écraser.*)

John Schufmans, New York, U.S., 30th August, 1878, for 5 years.

*Claim.*—1st. A mashing apparatus in which the malt, grain, &c., while passing through a chamber, is subjected to the influence and action of a series of flat streams and small sprays of water, to extract the saccharine and other matters from said grain; 2nd. A chamber having a double wall composed of a series of differently inclined surfaces, having slits or slatted apertures *b* *b*, and perforations *b* *b*; 3rd. In combination with the vessel A, the automatically operating agitating wheel G; 4th. The combination with the vessel A, of the casing K having the screen L; 5th. The combination with the vessel A, of the supply pipes J and R; 6th. The vessel A having the double walls B B, as stated, said vessel being made of two separate halves hinged and secured together in the manner stated; 8th. The vessel A having the hopper C with the sliding gate D and the walls B B, formed of a series of differently inclined surfaces having slits *b* *b* and apertures *b* *b*, the discharge F with the wheel G, pipes H J and R, and the casing K fitted with the removable screen L.

### No. 9140. Vice for Holding Picture Frames.

(*Vis pour saisir les cadres d'images.*)

Edward N. Porter, Hardwick, and Lorenzo G. Burnham, Burlington, Vt., U.S., 30th August, 1878, for 5 years.

*Claim.*—1st. The clamping plates A and B, 2nd. The sliding bar *d* actuated by the cam *e*; 3rd. The adjustable plate B controlled by the nut shaft K moving in the slot *f*, in combination with the cam *e*, and the sliding bar *d*; 4th. The combination of the cam *e*, the sliding bar *d*, the set nut *m* with the stationary plate A, the adjustable plate B, the nut shaft K.

### No. 9141. Improvements in Plotting Instruments.

(*Perfectionnements dans les rapporteurs.*)

Henry Wadsworth, Duxbury, Mass., U.S., 30th August 1878, for 5 years.

*Claim.*—1st. The degree indicator B *b*, cross grooved as shown at B *b*, and turning on an axis in the centre of the circle M, in combination with the right angle and parallel indicator D and with the board A adapted to support the paper; 2nd. The clamping screw C in combination with the grooved degree indicator, circle and board to hollow, the whole to be held firmly, while the parallel indicator is slid in and out in the grooves or guides and the lines drawn as specified.

### No. 9142. Improvements on Wheeled Vehicles.

(*Perfectionnements aux voitures à roues.*)

Mitchell C. Wright, Newark, Ohio, U.S., 30th August, 1878, for 5 years.

*Claim.*—1st. The support E, composed of the parts *f* *g*, the casting D having ears *d*, and the fastening bolts in combination; 2nd. The combination of the post F, having clip-arms *g*, and a slotted post, and the bolt *k* having a clip *l* with the sleigh rave *e*, runner A, and the till bar *m*.

### No. 9143. Improvements on Screw-jacks.

(*Perfectionnements aux crics à vis.*)

Moses Merick, (Assignee of Lorenzo Meeker,) Oswego, N.Y., U.S., 30th August, 1878, for 5 years.

*Claim.*—1st. The combination of the base and socket with the tube; 2nd. The horizontal ratchet with the reversible pawl and spring.

### No. 9144. Weatherstrip for Doors.

(*Bourrelet de portes.*)

John J. Shotwell, Welland, Ont., 30th August, 1878, for 5 years.

*Claim.*—1st. The combination of the coil hinge *f* as applied to the storm excluder; 2nd. The stirrup *a* operating as a stay or mover to the sheet C; 3rd. The combination of the coil hinge *f* uniting the sheets C and *d* together, with the stirrup *a* and the supporters *e*.

### No. 9145. Machine for Lining Tubing.

(*Machine à doubler les tuyaux.*)

William Lee, (Assignee of Herman Meyer,) Toledo, Ohio, U.S., 30th August, 1878, for 5 years.

*Claim.*—1st. The combination with a cylinder having expandable and contracting sections having the holes C of the spring bars *e*, having punches *e*; 2nd. The combination of the cylinder A with its sections C having wedges or cams *e* and holes *c*, the spring bars *e* provided with the punches *e* and the shaft having screw threads *d* and conical wings F E; 3rd. The combination of the wings E E, having the recesses *g* and the bars *e* provided with the edges *e*; 4th. The combination of the shaft provided with the ring F, and the sections C provided with the springs *d* secured together; 5th. The combination of the cylinder A composed of the heads B and expandable and contracting sections C having holes C, wedges or cams *e*, springs *b* and spring bars and punches *e*, and the shaft D having screw threads *d*, conical screw wings E E, and ring F.