

**No. 11,068. Improvements on Metallic Planes.***(Perfectionnements aux rabots métalliques.)*

Louis C. Rodier, Westfield, Mass., and Peter Rodier, Detroit, Mich., U. S., 27th March, 1880; for 5 years.

*Claim.*—1st. The plane stock A provided with the cam shaft support b, in combination with cam a, shaft f, wheel e, knife carriage B, trunnion bar d, and spring c; 2nd. The combination, with carriage B provided with hooked arms n and the knife brace h, of the elliptically shaped trunnion bar d, knife K and knife clamp D provided with screw s; 3rd. A plane stock provided with a vibratory knife carriage, the knife K arranged to have its rear support on said carriage, substantially on the longitudinal centre line of the knife with the cutting end of the knife resting on and supported by the axial pivot of the carriage; 4th. The combination of spring c, carriage B and cam a; 5th. The plane stock A, the face of which is provided with sinuous longitudinal grooves, and the sides thereof with straight vertical grooves.

**No. 11,069. Process of Re-Pulping Paper.***(Procédé pour convertir le papier en pâte.)*

Charles Coon and Lewis B. Adams, Saugerties, and Morgan A. Dayton, Jr., Milton, N.Y., U.S., 27th March, 1880; for 5 years.

*Claim.*—Causing the beater engine to operate upon the paper while suspended in a hot bath.

**No. 11,070. Improvements in Stump-Pullers.***(Perfectionnements aux arrache-souches.)*

Truman C. Naramore, Williston, Vt., U. S., 30th March, 1880; for 5 years.

*Claim.*—1st. The combination of the yoke A, gear wheel B, sprocket wheel b, pinion C, lever E and spring dogs g h; 2nd. The combination of the pinion wheel C, lever socket D with its lever E, and dog g with its spring g, to form an efficient lever purchase upon the gear wheel B.

**No. 11,071. Improvements on Lock Latches.***(Perfectionnements aux loquets à panache.)*

Samuel Buschlen and Louis Sees, Port Elgin, Ont., 30th March, 1880; for 5 years.

*Claim.*—1st. The latch bar B having an internal locking bolt C operated by a key, from either side of a door; 2nd. The plate A having key hole b, slot c and stop block d, in combination with a latch bar B provided with a longitudinal locking bolt C and slot f; 3rd. The latch bar B formed with a hub projection e having key hole h and slot f, and having in a longitudinal recess a bolt c shooting in the said slot f, in combination with plate A having stock d for locking the latch bar; 4th. The combination of cap D, latch bar B having a hub e, and plate A having key hole entering the hub; 5th. The combination of the collar D, latch bar B having shooting bolt C, and plate A having stop d and key hole b.

**No. 11,072. Improvements on Sleds.***(Perfectionnements aux traîneaux.)*

Lyman R. Dexter, Lancaster, and Beamon A. Bowker, Coos, N. H., U. S., 30th March, 1880; for 5 years.

*Claim.*—1st. The clamp E provided with a socket, and the base F of the braces G provided with a bulb, in combination with each other and the uprights I for connecting the runners and the beam of the sled; 2nd. The braces G strengthened by ribs, the plate H and the base F cast in one piece, the clamp E, uprights I and brace J, in combination with each other and with the runner A and the beam D.

**No. 11,073. Process for Treating Pyroxilin.***(Procédé de traitement du pyroxilin.)*

Orlan P. Whitcomb, Louisa McCaine, Maria B. McCaine and Helen J. McCaine, (Assignees of William McCaine), St. Paul, Minn., U. S., 30th March, 1880; for 5 years.

*Claim.*—1st. Treating pyroxilin or gun cotton by first reducing it to a liquid by suitable solvents, without the application of heat and pressure and then casting it into porous moulds; 2nd. Treating pyroxiline or its compounds with spirits of turpentine, or its equivalent; 3rd. Treating the compound thus formed with alcohol, and afterwards with olive oil or its equivalent.

**No. 11,074. Improvements on Car Trucks.***(Perfectionnements aux trains des chars.)*

John J. Thomas and Norman Webb, Selma, Ala., U. S., 30th March, 1880; for 5 years.

*Claim.*—1st. The combination, with the ordinary springs D and equalizing bars F, of the front and rear equalizing bars I H, connected by hanger to the outer ends of the springs D and having elastic centre bearings; 2nd. The combination of the centre bearing J, equalizing bar I, hangers f and rubber cushions h.

**No. 11,075. Improvements in Stoves and Cooking Utensils.***(Perfectionnements aux poêles et aux ustensiles de cuisine.)*

George Robinson, Toronto, Ont., 30th March, 1880; for 5 years.

*Claim.*—1st. The fire box or chamber A, placed within an enclosing cylinder and provided with flues, for the admission of air to the fire-box and flues for the escape of the smoke and products of combustion; 2nd. The combination, with the fire-box A and enclosing cylinder B, of a cooking utensil provided with a downwardly extending bottom and adapted to be supported on and heated by the stove.

**No. 11,076. Improvements in Dies and Forms for Shaping Heel Counters.***(Perfectionnements aux matrices et aux formes à contreforts des talons.)*

Joseph Kieffer, Montreal, Que., 30th March, 1880; for 5 years.

*Claim.*—1st. The combination of a male die or former having a curved or

rounded end, and sides curved vertically and longitudinally, and a sectional female die, the entrance of which is straight or nearly so, longitudinally, and having a back or rear end surface, concave to fit the convex end of male die or former, and provided with central side sections concave upon their inner sides, to fit curved sides of the former head and adapted to be partially rotated about an axis, perpendicular to the plane of movement of the former; 2nd. The combination of the male die B, having head E provided with curved sides and convex end, and a sectional female die composed of the main side pieces A A, provided with the longitudinally straight surfaces C, the central movable side sections D D and the back piece C; 3rd. A female die, for shaping shoe counters, composed of the main side pieces A A having openings cut through their sides, and provided at or near the entrance thereof, with longitudinally straight surfaces c, shoulders a and curved recesses or cut away b, the central movable side sections D D and separate back piece C; 4th. A die or mould for forming heel counters in which the main sides and back are stationary or yield only slightly in straight, or nearly straight lines, and the central side sections have imparted to them a reciprocating rotary or vibratory motion about independent axis; 5th. In a female die or mould, two side moulding or shaping surfaces adapted to be partially rotated about independent axes located forward of the back or rear end of mould; 6th. In apparatus for moulding boot and shoe stiffeners, the combination, with a male die or former, of a female die having a rigid heel block and hinged wings or side pieces; 7th. The combination, with the concave heel block, of wings or side pieces forming a continuation of the heel block and hinged or pivoted at points between their ends.

**No. 11,077. Improvements on Boots.***(Perfectionnements aux bottes.)*

Moses M. Clark, Highland Mills, N.Y., U.S., 30th March, 1880; for 15 years.

*Claim.*—A boot having a hole or socket c through its sole, in combination with the removable plug e.

**No. 11,078. Improvements on Sash-Holders.***(Perfectionnements aux arrête-croisées.)*

John Payne, New Hamburg, Ont., 30th March, 1880; for 5 years.

*Claim.*—1st. The frame C, pinion D and dogs E E secured to the window frame, and the rack bar B secured to the sash; 2nd. The frame C, pinion D and dog E secured to the sash, and the rack bar B secured to the window frame.

**No. 11,079. Improvements on Barbed Wire Fences.***(Perfectionnements aux clôtures métalliques barbelées.)*

Edward M. Crandal, Chicago, Ill., U. S., 30th March, 1880; for 5 years.

*Claim.*—1st. The barbed cable composed of the wires and intertwined zig-zag sheet metal strip; 2nd. The method of forming the barbed cable by placing between the wires a zig-zag strip of sheet metal and twisting thereafter the wires, whereby said strip is bent, braced and rigidly held with the points standing in all directions; 3rd. The zig-zag sheet metal strip with sharp points at the angles.

**No. 11,080. Improvements on Drying Stands for Carriage Shafts.***(Perfectionnements aux chevaux-séchoirs pour les timonnières des voitures.)*

Charles Wright and Yeatman Bickham, Findlay, Ohio, U. S., 30th March, 1880; for 5 years.

*Claim.*—The inclined stand pipe dryer A having hollow arms or lateral extensions a rounded upon the upper surface.

**No. 11,081. Machine for Bending Bows.***(Machine à plier les courbes.)*

Charles Wright and Yeatman Bickham, Findlay, Ohio, U. S., 30th March, 1880; for 5 years.

*Claim.*—1st. The bending forms B having flanged edges serrated or notched at b, in combination with the clamp strap a, bending band D and wedge d; 2nd. The combination of frame A with the bending forms B, adapted to be adjusted in relation to each other, by means of slots a and set screws passing through the flanged edge of B; 3rd. The combination of frame A having a grooved central beam L with flexible band D having central strap g and bending forms B; 4th. The forms B having notches or serrated edges; 5th. The forms B adjustable relatively to each other by movements of one of them.

**No. 11,082. Machine for Bending Felloes.***(Machine à plier les jantes.)*

Charles Wright and Yeatman Bickham, Findlay, Ohio, U. S., 30th March, 1880; for 5 years.

*Claim.*—1st. A felloe bending machine having form A, a movable beam L combined with grooved shaft M, ring n and chains or ropes i; 2nd. In combination with the movable beam L and means for drawing the band or flexible frame D to the form, the shaft T and ropes or chains i; 3rd. In combination with frame B movable beam L and form a, the chains or ropes i, operated by ring n and grooved shaft m, and shaft T, ropes or chains r and band D; 4th. In combination with the frame A, the flexible band D having ears d and chains or ropes, and the detachable clamping tip H; 5th. In a felloe or wood bending machine, the provision of means for bending the wood upon the form, in combination with means for moving the bending band upon the form; 6th. In combination with means to bend the wood upon the form and to move the same on the form, the means to fix the band centrally at any given point on the form.

**No. 11,083. Perpetual Calender and Pen-Holder.***(Porte-plume-calendrier perpétuel.)*

George W. McCready, Petitoodiac, N.B., 2nd April, 1880; (Extension of Patent No. 4,570).