

No. 6659. Machine for Folding the Edges of Shoe-vamps.*(Machine à remployer les empiègues de chaussures.)*

John W. Lufkin and Richard H. Lufkin, Chelsea, Mass., U. S., 11th October, 1876, for 5 years.

Claim.—1st. In combination with the work supporting bed A the vertically reciprocating blade b and stationary shearing block T arranged to operate relatively to each other; 2nd. In combination with a work supporting bed A and a vertically reciprocating cutting blade, the feeding bar J and presser bar I arranged above the work and operating together and relatively to each other; 3rd. In combination with the work supporting bed A mechanism for folding and pressing the edge of the material when fed along wherein are employed the block U and presser W, or any other devices for producing the same result; 4th. In combination with the cutting blade b and feed bar J and presser bar I, the folding block U and fold presser W operating together and relatively to each other; 5th. An elastic or yielding fold presser consisting of block X and presser W, or any other devices; 6th. In combination with mechanism for successively feeding and folding the work a device f or its equivalent for applying an adhesive substance to the edge to be so folded.

No. 6660. Improvements on Handles for Pocket and other Knives.*(Perfectionnements aux manches d'outils pliants et autres.)*

Herman Funke, New York, U. S., (Assignee of Joseph W. Gardner), 11th October, 1876, for 15 years.

Claim.—1st. A lining for the handles of pocket and other knives having the bolster e formed by bending a portion of the lining so as to lap over the scale; 2nd. The overlapping tip b.

No. 6661. Improvements on Saw Mill Dogs.*(Perfectionnements aux clameaux de scieries.)*

Joseph Van Norman, Tilsenburgh, Ont., 11th October, 1876, for 5 years.

Claim.—The manner of effecting the downward and drawing motion to the teeth c c c c, by means of the combination of the sliding bolts h h and the slides or openings B and B h.

No. 6662. Improvements on Wardrobe*(Hooks. Perfectionnements aux crochets de garde-robes.)*

James E. Bryan, Humboldt, Kan., U. S., 11th October, 1876, for 5 years.

Claim.—The combination with the suspending bar A of the hinged spring clamp bar C, the ends of the same being curved respectively downwards and upwards.

No. 6663. Improvements on Feather Renovators.*(Perfectionnements aux machines à rafraîchir la plume.)*

Nathan P. Chaney, Potsdam, N. Y., U. S., 18th October, 1876, for 5 years.

Claim.—1st. The combination of section A provided with lugs C covered sediment chamber G, steam pipes F L, heating chamber I and shaft N having agitating arms with the section B provided with notched flanges D and door E; 2nd. The provision to the drum B of the conductors O connected to a ventilating shaft; 3rd. The provision to the drum B of the removable lining P.

No. 6664. Machine for Manufacturing Tongued and Grooved Lumber.*(Machine à fabriquer le bois bûlé.)*

Philip P. Josef, Buffalo, N. Y., U. S., 19th October, 1876, for 5 years.

Claim.—1st. The method of forming the tongues in tongued and grooved lumber by means of a series of upper and under cutters; 2nd. The divided spindles S S, in combination with the pulleys P P and the heads E E.

No. 6665. Steam Cylinder Lubricator.*(Graisseur de cylindre à vapeur.)*

Ransom C. Luce and George S. Woodruff, Grand Rapids, Mich., U. S. (Assignees of Elijah McCoy), 19th October, 1876, for 5 years.

Claim.—1st. The combination of the chamber B, the regulating tube c open from top to bottom and having perforations x and the valve d with stem e and valve seats a b; 2nd. The passages m and n formed in the double valve d c.

No. 6666. Hook for Catching Fish and Game.*(Hameçon pour le poisson et le gibier.)*

Benjamin F. Smith and William K. Bowman, Philadelphia, Pa., U. S., 19th October, 1876, for 5 years.

Claim.—1st. The shank A terminating in a disc B having passages for the hooks d d; 2nd. The crown D forming a base for the attachment of the hooks d d and affording a passage for the shank; 3rd. The latch C, dog F and bait holder G, arranged and combined for conjoint operation; 4th. The combination of shank A, disc B, crown D and spiral spring E; 5th. The combination of shank A, disc B, latch C, crown D, hooks d d, spring E, dog F and bait holder G.

No. 6667. Improvements on Water Engines and Pumps.*(Perfectionnements aux machines hydrauliques et aux pompes.)*

George Wells, Montreal, Que., 19th October, 1876, for 5 years.

Claim.—1st. The cylinder g having convex surface h and port l, in combination with concave surface d having ports i and k; 2nd. The cylinder g in combination with brackets x provided with adjustable bearings; 3rd. The cylinder g, cover u and port r combined; 4th. The combination of the casing t, discharge r and oscillating cylinder g; 5th. The cylinder g having port l, in combination with concave surface d having port k and vessel p.

No. 6668. Manufacture of Belt Pulleys.*(Fabrication des riens à courroies.)*

Augustus L. Bricknell, London, Eng., and Alexander A. Hall, Nashville, Tenn., U. S., 19th October, 1876, for 15 years.

Claim.—1st. Casting a solid rim in a mould having a yielding non-chilling core and a permanent face surface, whereby a well finished belt face and a practically circular rim is economically attained; 2nd. Separately casting the hub and the rim the former with its arms or their equivalents being cast in any suitable manner and the latter cast in a mould having a permanent face surface and a yielding non-chilling core, the two parts being concentrically arranged and united together at the joints whereby smooth faced and practically concentric pulleys may be economically produced; 3rd. A belt pulley having a solidly cast rim and a separately cast hub with arms which are united to the rim.

No. 6669. Car-coupling.*(Attelage de wagon.)*

Joseph W. Bates, Joseph W. Bates, Jr., Minneapolis, Minn., Rudolph Borgersrode and Charles O. Borgersrode, Philadelphia, Pa., U. S., 19th October, 1876, for 5 years.

Claim.—1st. The draw-head A constructed with interior rounded jaws a a and side opening b b; 2nd. The coupling bar D constructed with central bulge i and spear-shaped heads h h having concave shoulders x x; 3rd. The combination of the draw-head A provided with the interior rounded jaws a a, and the coupling bar D provided with the spear-shaped heads h having concave shoulders x; 4th. The L shaped tripper C hinged within the draw-head and operating in combination with the coupling bar D; 5th. The apron C hinged within the draw-head and operating in combination with the coupling bar D.

No. 6670. Letter File and Binder.*(Liasse groupe-lettres.)*

Newton S. Oles, New York, U. S., 19th October, 1876, for 5 years.

Claim.—1st. In combination with the binding machine B provided with the clamping bar P the pointed needles L L attached to binding bar K and flat or channelled binding strip R; 2nd. In combination with the permanent binding covers O O and the binding bar K carrying needles L, the flat or channelled binding strip R operating to permanently bind letters or papers; 3rd. In combination with the binding machine B and covers A, the clasp M pivoted to lower cover A; 4th. In combination with the sockets g and i attached respectively to the base of the binding machine B and lower cover A and the sliding clasp h; 5th. In combination with the binding machine B, the clamping bar P when provided with the raised handles P and P; 6th. The strips or wings N N projecting from the base and inside of the covers O O and operating as a binding device, in combination with a bar or bars armed with a series of needles or wires tapering to a point, or provided with eyes or slotted near their points, and an auxiliary binding strip or bar either channelled flat or tubular.

No. 6671. Life Raft.*(Radeau de sauvetage.)*

George Thompson, Kingston, Ont., 19th October, 1876, for 5 years.

Claim.—1st. The duplex semi-elliptic pontoons A and B hinged together; 2nd. The pontoons A and B hinged together and provided with a cork or wood casing E peripherally; 3rd. The pontoons A and B hinged together and having the casing E and the cork or wood bottom F; 4th. The pontoons A and B hinged together, provided with the following stanchions H carrying a net work I; 5th. The pontoons A and B having an automatically acting catch D; 6th. The pontoons A and B hinged together and provided with compartments G.

No. 6672. Art of Preparing and Preserving Tanning Solution.*(Art de préparer et conserver les solutions tanniques.)*

James Foley, Montreal, Que., 19th October, 1876, for 5 years.

Claim.—1st. The process of employing bisulphate of lime and sulphate of soda, separately or combined, in the preparation of tanning solutions by adding them to water to be used for leaching bark and for preparing tanning solutions from other substances and adding them to solution prepared in the ordinary way; 2nd. The process of preserving tanning solutions, preventing and arresting the decomposition of the tannic acid and its conversion into gallic acid, and of destroying the effect of the coloring matter or dye in tanning solutions, which consists in the employment of bisulphate of lime and sulphate of soda or their equivalents, either separately or combined, with tanning solutions; 3rd. The process of preparing and preserving tanning solutions by means of water impregnated with the fumes of brimstone or by adding to water previous to being used, liquid sulphurous acid; 4th. The process of preparing tanning solutions by means of moistening or impregnating bark with bisulphate of lime, sulphate of soda and liquid sulphurous acid, either separately or combined previous to the bark being saturated with water.

No. 6673. Improvements on Beehives.*(Perfectionnements aux ruches.)*

Henry Roush, Sioux, Iowa, U. S., 19th October, 1876, for 5 years.

Claim.—1st. The floor of a beehive constructed with a recess, the surface of which is covered or faced with glass or analogous material; 2nd. A four-sided inclined recess n made in the bench a, the sides of which recess are covered with glass, in combination with the hole r and door t.

No. 6674. Improvements on Churn Dashers.*(Perfectionnements aux batte-beurre.)*

Albert G. Kerr, Clapham, Que., 19th October, 1876, for 5 years.

Claim.—In combination with the dasher shaft A, the revolving head B pivoted thereto by the pin C, having spirally arranged radial wings E