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Vol. IV.—No. 6.

JUNE, 1876.

Price in Canada \$2.00 per An. United States - \$2.80

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INVENTIONS PATENTED.

No. 5967. Improvements on Harness.

(Perfectionnements aux harnais.)

Henry G. Mahurin and Levi W. Sanborn, Auburn. Me., U. S., (Assignees of George C. Eastman), 21st April, 1856, for 5 years.

Claim.—The shaft supporter provided with the end eyes a, b, the intermediate clasps c, d, and the stud c, arranged with it.

No. 5968. Type Setting Machine.

(Machine à poser les caractères.)

Samuel W. Green, (Assignee of William A. Lorenz), New York, U. S., 21st April, 1876, for 5 years.

Claim.—1st. In combination with the type case, the plunger for ejecting the type made thicker than the thickness of the thinner type to be ejected and tapered at its end; 2nd. The combination of a type case ejector and stop. and tapered at its end; 2nd. The combination of a type case ejector and stop, the improved stop consisting of the revolving roller E. for the purpose of arresting the motion of the type when ejected, 3rd. In combination with the grooved back plate, the glass front plate made in sections, each removable independently, 4th. In combination with the type case the removable guide bar II, secured by thumb serews or an analogous device, 5th. In combination with a back plate having grooves of varying depths the type arranged so that the heavier type shall travel through the longer grooves, and the lighter through the shorter ones; 6th. The combination of the pendulum suspender and the adjustable suring for the surfaces of controllogs and making pender and the adjustable spring for the purpose of controlling and making sensitive the vibrations of the gate as the varying thicknesses of type past through it.

No. 5969. Sceder Attachment to Horse Rakes.

(Ajustage de semoirs aux râterux à cheval.)

John Watson, Ayr. Ont., 21st April, 1876, for 5 years.

Claim.—A seed distributing box C, supported by arms A, A, removably bolted to the axle B, of the rake, and having a lever C, operated by a corrugated ring R, attached to the wheel to give the desired motion to the pitman H, in the seed box.

Cultivator. (Culcivateur.)

George Gillies, (Assignee of Henry Collard) Gananoque, Ont., 21th April 1876 (Extension of Patent No. 1937.) for 5 years.

Claim.—lat. The arrangement of main bars a a, formed of square iron the birges b, b, ties c, c, braces and draft hooks d, d, formed of that iron and fastened together by means of the teeth, 2nd Having two, three or more narrow sections connected by hinges b, b, 3rd The hinges being so placed on cultivator (having one end long and the other short) as to throw time of joint parallel to line of draft, 4th. The main bars d, d, being so bent and punched that the marks of the teeth are equidistant from each other; 5th The oval tapering tennant on tooth t, t, with the corresponding socket A, and B, 6th. The white of steed S. S. benny placed on lower wart of tooth with the B. 6th. The plate of steel S. S. being placed on lower part of tooth with the edge of steel in front, and 7th, the draft bar c, drawn by two books the one near each and.

No. 5971. Hanger for Sliding Doors and Gates.

(Ferrure de porte et de barrière en coulisses.)

Leeds A. Cook, North Keppel, Ont., 24th April, 1876, for 5 years.

Claim.—The combination of sliding door with a swinging lever sliding in slot of main post and with a radius bar pivoted centrally to lever and to the pair, et son demain post, to be opened and closed by the parallel motion produced thereby. I plus de solidité.

No. 5972. Dumb-stove. (Podle sourd.)

William Parsons, O angeville, Onc., 28th A | P 1876, for 5 years.

Claim,-1st. The placing of the sove of a A to the oper chamber of the dram B; 2nd. The in vace ion of one hor arr gene a g T, thue d. d, d.

No. 5973. Process, Manufacture and Finishing of Starch. (Procédé, fals icason et pasachèveme et de l'empois.)

Alexander S. Mac 39, To 50 o Oct. 21.3 At 1 1:16, for 5 years.

Claim. Fire record, adaining a record of the according to a restarch by the analycation of exemple to some stop of a restarch to some stop of a restarch according to the process, manufacture, bash, but spreaders by the teneral content of the process, manufacture, bash, but spreaders, but set even as

No. 5974. Milk Tester. (Halaciométre.)

Alvin Middaugh, Scio, N. Y., U. S., 21 a Apr + 1876, for 5 years.

Claim. The process of discovering immer even in Is and the excess of water there a, b, here og a given quare — if southed it in a man a given quarties or such in norse simply, to be rested, in separate versets C. C. C. to about 90° Fabrenheit, inon coughleting he is under a mat samples, and finally compressing the cut arged ion unsafed on d, the specific heat thas developing the orders of ege imparities, and the quantity of califform unity undicating the water present.

No. 5975. Improvement in Ploughs.

(Perfectionnements dans les charraes.)

George Thomson and John Thomson Woodstock Out. 24th April, 1876, for 5 years.

Claim—18: The combina on of the mould board d as the transce. 2nd The control of the came ϵ and the ann choker g—for the combination of the land stanmer (thereby complete) with the coulter a

No. 5976. Coal Ashes Sifter.

(Crible pour les cendres de charbon.)

Thomas C. Jones, Montreal, Qu., 24th April, 1876, for 5 years.

Claim .- The cinder-receptacle (', having a exhadrical rectangular or other regular or irregular section mounted on the crim's shaft D and consisting of the solid or perforated heads Co surrounded or covered by woven wire or perforated metal plate and provided with the doors or traps C_{λ} and C_{J} , in combination with the box A.

No. 5977. Hose Carriage. (Volture a boyaux.)

Thomas McCabe, Ottawa, Ont., 21th April 1876, for 5 years.

Claim. 1st. A hose carriage having its reel or drum D operated from one the traction wheels through the medium of a friction wheel E, and a friction of the fraction wheels through the medium of afriction wheel L, and a Inction pulley G, the latter bearing on the face of the wheel L and being arranged to move to and from the centre of the same in order to any the speed of the reel, 2nd. In combination with the frame V, wheels C, and drum or reel D having the wheel A, the friction wheel G and the shafts F O and V, provided with the pinnons whereby motion is communicated from the fraction wheel to the reel' 3nd. In combination with the shaft F, and the drum or reel D, connected therewith by suitable gearing the fraction wheel L, 3d ding pulley G and series shaft H arranged to move the pulley. 4th Te com-bination with the traine A and the drum or rea! D the S drug grade traine or carrier Z, in combination with the double threaded series P and tork in or carrier Z. in combination with the double threaded service P and look in or equivalent devices for moving it to and tro. 5th The guide frame or carrier Z provided with the rollers q and having one sade longed to swing outward 6th. In combination with the wheel E the shaft P provided with one or more fraction pulleys, and having one cond-mounted eccentrically in the block d having the hand lever c. 7th. In combination with the wheel E and the shaft P provided with the sheling pulleys G, and H, the screw shaft K, provided with the detachable units a, engaging with the pulleys.

No. 5978. Improvements in Carriage Wheels.

(Perfectionnements aux roues de voitures.)

Samuel Vessot, Joliette, Que., 24th April, 1876, for 5 years.

Résumé.—Le patin h, avec ses agrafes ϵ ses clefs d, le doublage en bos ϵ les garants ϵ et les becs g aussi la forme du patin avec sa bonte h, son plier ϵ , et son doublage en fer g, ainsi que le cercle k, destiné à lui donner

Claim.—The runner b_i with its books c_i , keys d_i , sheathing of wood c_i , guides f_i , and hooked ends g_i , also the shape of runner with its point h_i , support i, and iron sheathing f_i , as well as the hoop k_i to give it more solidity,

No. 5979. Clothes Wringer. (Essorcuse à linge.) James Hayward and John B. Abbott, Gananoque, Ont., 24th April, 1876, for

5 years. Claim.—The combination of the rigid bar F, having a convey lower side and rigid bar D, having a concave upper side, and interposed straight flat spring steel bar E, for imparting a yielding pressure to the wringing rollers by the adjustment of a set screw G, or its equivalent.

No. 5980. Improvements on a Ship Pump.

(Perfectionnements à une nompe de navire.)

John Brokenshire, Kingston, Ont., 24th April, 1876, for 5 years.

Claim.—1st. The commber and elbow combined; 2nd. The cover plate or lid in said chamber, 3rd. The mud-port and plate in combination with the pump valves and all its working parts.

No. 5981. Dried Fruit Loosener.

(Appareil à désagréger les fruits secs.)

James V. Hiddelson, Chicago, Ill., U.S., (Assignee of Henry J. White), 24th April, 1876, for 5 years.

Claim.—A fruit loosener composed of the stock A, with a cross piece or handle at one end and the central guide point C, and spiral sprongs D, at the

No. 5982. Improvements on Clothes Measures.

(Perfectionnements aux mesures d'habits.)

Philip Kribs, Guelph, Ont., 24th April, 1876, for 5 years.

Claim.—1st. A measure or rule A, having raised ribs B, at the ends and intermediately; 2nd. A measure or rule bent at one edge to form a flange longitudinally; 3nd. A measure or rule A, having teeth at its ends; 4th. A measure or rule A, having teeth at its ends; 4th. A measure or rule A, having teeth, 5th. The provision to the measure of the stamping plate.

No. 5983. Improvements on Mocassins.

(Perfectionnements aux moccassins.)

Magloire Langevin, Ottawa, Ont., 24th April, 1876, for 5 years.

Magloire Langevin, Ottawa, Ont., 23th April, 1876, for 5 years.

Claim.—1st. The combination with a moccason A, with or without heel a, also with or without an instep strap and buckle B, the top C, cramped and seamed in front: the flies D, and gussets c, on its sides; and the straps and buckles E, buckling in rear, to form a shanty shoe pack A, for use during working time in shanties; 2nd. The combination with a moccason A, the top C, crimped and scamed in front, or the top shank in one piece, the flies D, and gussets c, at its sides, and the straps and buckles E, buckling in front to form a shanty shoe pack when not at work, 3rd. The combination with a moccason A, having its front either with a fly D, or seamless, the fly D, and gussets c, seamed to the top C, in front or in rear, to close up its opening, and the straps and buckles E, buckling either in front or in rear, to produce an improved moccason for use in or near country places. improved moccason for use in or near country places.

No. 5984. Improvements on Carriage Tops.

(Perfectionnements aux souflets de voitures.)

Elihu P. Steadman, Ravenna, Ohio, U. S., 24th April, 1876, for 5 years.

Claim.—1st. The rigid frame S, extending around horizontally on all sides of the top, in combination with the bows c, c; 2nd. The combination of the cover b, and the horizontal frame S, with its buttons on which to fasten curtains and quarters; 3rd. The combination of the prop ι , bows c, c, bow a, seat g, cover b, and frame S.

No. 5985. Composition of Matter for Curing Flat and Contracted Footed Horses.

(Composé pour guérir les pieds plats et contractés des chevaux.) Jecob Zielinski, Kleinburgh, Ont., 24th April, 1870, for 5 years.

Claim.—Mixture composed of the following ingredient, viz., oil of amber gum, campher spirits of turpentine for A, mixture, and spirits of tar fish oil and oil of thyme for B, mixture.

No. 5986. Machine for Fastening Lock Gates.

(Machine à assujétir les portes d'écluses.)

Ebenezer V. Bodwell, St. Cathannes, and John E. Scott, Dumville, Ont., 24th April, 1876, for 5 years.

Claim.—1st. The combination of the chain D, E, driving block F, casting f, lock G, lock bolts II; 2nd. The combination with the bars A, B, C, and D, and the toe posts of the lock gate.

No. 5987. Improvements on Tuyeres.

(Perfectionnements aux tunères.)

Johnston Spooner, Westbrook, Ont., 24th April, 1876, for 5 years.

Claim.—The air chamber A, receiving the blast through the side pipe B, and provided with a door D, for the removal of ashes, &c., in combination with a tuyere C, having vertical coinciding passages or holes a, a, a.

No. 5988. Improvements on Paper Barrels.

(Perfectionnements aux barils en papier.)

Nice Keely, Leverington, Pa., U. S., 24th April, 1876, for 15 years.

Claim—1st. A paper body cask or similar vessels provided with moulded screw threads; 2nd. A cask barrel or other vessel constructed of a paper body or shell provided with bands a, and the ribs or threads, corresponding grooved or threaded head B and wire d; 3rd. A paper body cansk or similar vessel provided with band or bands a, covered with metallic hoops b.

No. 5989. Middlings Purifier.

(Epurateur des gruaux.)

Henry M. Charlesworth, Egmondville, Ont., 24th April, 1876, for 5 years.

Claim.—1st. The combination of the reel A, the chute B, divided into two distinct departments, one D, for fine middlings and another E, for coarse middlings, the inclined stants C, and valves T, with the suction fau F, suction spout G, and blast room H, 2nd. The combination of the feed hopper I, the upper sleves J, and the lower sleves K, which can be raised or lowered according to quantity and grade of middlings, 3rd. The combination of the carrying boards L, and R, the side spouts M, and N, the draw slides O the hopper Q, the discharging spouts S, and the valves U, Ur, and V, V.

No. 5990. Improvements in Harvesters.

(Perfectionnements aux maissonneuses.)

Christopher C. Bradley, Syrncuse, N. Y., 24th April, 1876, for 5 years.

Clairs.—let. A hollow spherical cutter bar head to contain intuiticating material, 2nd. In combination with the cutter bar need A, the adjustable socket clasps E, and F, forming an adjustable and self-oiling pitman connection. 3nd The combination of the socket clasps E, and F, boil and lock nut G, and rubber K, the whole forming an adjustable and clastic socket joint, 4th. In combination with a pivotal connection for the driving crank, the adjustable self-oiling ball and socket connection.

No. 5991. Improvements on Chain Pumps.

(Perfectionnements aux chapelets.)

Oren Baldwin (Assignee of John G. Henderson), Keokuk, Iowa, U. S., 24th April, 1876, for 5 years.

Claim.—Ist. The elastic sucker L, with the opening J, in combination with the lower disk A1, arranged so that the opening will be closed when the pump is in operation, and open when it is stationary. 2nd. The general combination of the pump tube, the chain and the rubber sucker L, having the leak tube J, and lower disk A1, arranged to close the leak tube when the pump is in operation. pump is in operation.

No. 5992. Water Wheel. (Roue hydraulique.)

John H. Staples, Boston, Mass., U. S., 24th April, 1876, for 5 years.

Claim.—The combination of the gate D, the gate ways or flumes L., L., provided with water packed joints between the divisions of the flume, and the wheel; with the wheel B, divided into horizontal sections B, B, B,

No. 5993. Type Distributing.

(Machine à distribuer les caractères.)

Samuel W. Green (Assignee of William A. Lorenz), New York, U S 24th April, 1876, for Syears.

Samuel W. Green (Assignee of William A. Lorenz), New York, U. S. 24th April, 1876, for 5 years.

Claim. 1st. In combination with a galley, a follower for pushing in the column of type to be distributed, mounted upon a rod, on which at slates in the direction of the motion of the type column, and around which at can be vibrated so as to permit the addition of more type to the column without stopping the machine, 2nd. The conbination of the revolving cam for operating the slide which feeds in the type from the line to the carrier with the bell crank, and the diverging jaws on the slide, 3rd. The cap to a combination with the feeding in slide and moving therewith for the purpose of preventing the type from rising in the carrier, 4th. The combination of an adjustable spring with the feeding in slide for the purpose of giving its first impulse; 5th. An adjustable friction pulley, over which the cord operating the line follower passes in combination with the line follower, for the purpose of regulating the force with which the weight drives the line follower; 6th. An adjustable noso piece E, in combination with the feeding in slide D; 7th. A corner piece opposite the carrier which is receiving a type, having a recess cut therein, for the purpose of holding the type from being withdrawn in combination with the type-driver and carrier. 8th The nose piece E, and the corner piece I, constructed with rounded corners. 9th. The roller on the cut-off lever G4, in combination with the line opening finger, 10th. The combination of the carrier, hinged clutch and spring 11th. In combination with the type carrier, the ejector with three prongs of which two are of full width, 12th. The combination of the vibrating spring-clutch of the carriers, with the opening projecting stud. O, on the follower M, which moves the line of carriers, so arranged as to open the clutch for the reception of the type, and to hold it open until the type has been admitted, 13th. In combination with the feeder-slides, the adjustable and reversible section

No. 5994. Diamond Millstone Dressing Machine. (Machine à diamant pour piquer les meules.)

Thomas Mathewson, Tallendale-mills, Ont., 24th April, 1876, for 5 years.

Thomas Mathewson, Tallendale-mills, Ont., 24th April, 1876, for 5 years. Claim.—1st. A diamond millstone dressing machine provided with circular base or surface plates A, Az, for the purpose of extending the hearing surface of the machine over a large portion of the area of the stone bong operated upon; 2nd. The T-shaped traversing carriage B, provided with a projecting rib bi, fitting into the groove within bed A2, and secured thereto by the pins C, C, in combination with the rack I, worm pinnon II, rathet have pawl bi, arm J, and rod k, provided with springs ki, ke, catch finger L, and operated by the action of the head D; 3rd. The quadrant plate N shaped for fitting the spindle of the stone in combination with the radial arm Q, holding the bed A2, 4th. The quadrant O, attached to the clamp P, in combination with the radial arm Q, holding the bed A2.

No. 5995. Construction of Railway and other Wheels. Fabrication des roues de railroutes et autres.)

Alfred Krupp, Essen, Prussia, 24th April, 1876, for 5 years.

Claim .- 1st. Constructing railway and other wheels from a bar of iron or steel or other weldable material, celled round a mandrel and welded together, 2nd. Giving to the bar of metal a tongue and groove or other analogous shape in order to prevent lateral slip and to better unite one coll together.

No. 5996. Improvements in Pumps.

(Perfectionnements dans les pompes !

W.Illam Lott, Elmwood, Ill., U. S., 24th April, 1876, for 5 years.

Claim.—1st. A double noting pump having a main stock provided with a spout and pivoted handle or lever carrying the piston rads provided with bucket valves, the reservoir or tank f connected with the upper and lower tabing h, g, by means of a plate h, the upper end of lower tubing being fastened thereto by a strap plate B, and servew bolts, 2nd. The bucket valve made in two sections B. C, the upper section B, being connected to the piston rod d, and secured to the lower section by means of the rods c, but terrer automal having a day worms to the rods of the rods of the rods. and scrow outs and having a downwardly projecting stop m, to provent the valve A1, from coming out of the opening in which it works in combination with the adjustable ring e1.

No. 5997. Type Setting Machine.

(Machine à poser les caractères.)

Samuel W. Green, New York, U.S. (Assignee of Charles W. Dickinson)-24th April, 1876, for 5 years.

Samuel W. Green, New York, U.S. (Assignee of Charles W. Dickusson) 24th April, 1876, for 5 years.

Claim.—1st. The front rest formed by the edge of the glass plate for giving a support to the face end of the type, as it is ejected from the case, before the bottom end is disconnected from the line in the case so as to hold the type from turning and secure its delivery with the proper side down, 2nd. A guiding apparatus consisting of a fixed inclined back plate on which the type grooves are formed and a removable inclined plane of glass, or similar smooth transparent substance, which completes the channels and on which the types slide down upon one of their sides from the case to the race in which they are to be set; 2nd. A vibrating tumble: in combination with the plunger which expels the type and with the reciprocating clutch which gives motion to the plunger so arranged that it will not engage with the reciprocating clutch until it is brought into connection by the action of the key pressed to set a type, 4th. The combination of the two followers for pressing forward the line of type which is fed into the type channel by the conductor, one of which has a short reciprocating mavement and the other of which pushes forward the entire line out of the channel a into the galley when enough type has been set up to form a single line of a column 5th. In combination with the principal slide rest, the temporary rest for supporting the type as they are moved down the channel during the time when the principal slide is out of action; 6th. The combination of the slide rest of the machine with the apparatus for separating the line of type of the leigth required for a column so that when the slide rest, the temporary rest for action the second follower and the apparatus for meaning up the line into a column; 7th. The selecting mechanism, which is automatically set in a set on the second follower and the apparatus for moving a line of type of the rice where he is the condition of the channel during the transfer of the forward rest, 9th. A friction clutch for so controlling the slide rest that it is held pressed against its slide when moving in one direction and is automatically liberated to run freely in the opposite direction; 10th. The combination of a mechanism in which types are selected by keys with an apparatus which automatically makes up each completed line of types into column.

No. 5998. Improvements on Refrigerators.

(Perfectionnements aux rafraichissoires.)

Edgar B. Jewett, Buffale, N. Y., U. S., 24th April, 1876, for 5 years.

Claim.—1st. The combination with the we receptacle A, of the inclined air cooling chamber C, provided with an air inlet and escape openings, and theorethow apertures d, arranged near the highest point of the air chamber; the overflow apertures d, arranged near the highest point of the air chamber; 2nd The combination with the nir cooling chamber (C of the methered gutters E, said gutters being arranged directly underneath the projecting ridges of the lower plate of said chamber and emptying into the main gutter F, bit the purpose of conveying the drippings from said plate to the externor of the refrigerator. 3rd The combination with the side plates II, II, of the act receptuale A, of the gutters h, h, saidgutters being formed by bending the lower inclined edge of said plates upwardly; 4th. The jacketed gutter F

No. 5999. Car-coupler. (Accoupleur de wagons.)

James B. Smith, Amabel, Ont., 24th April, 1876, for 5 years

Claim —1st. A curved guard-spring G, extending over the hook B, in combination with a draw-head A, provided with a spur-shaped base O, with a lever N; 2nd. The pin M, passing through the plate L, and block F, no combination with the springs D, and D, held within the draw-head A, by the spring plates E.

No. 6000. Type Distributing Machine.

(Machine à distribuer les caractères.)

Samuel W. Green, New York, U. S. (Assignee of Charles W. Dickmson), 24th April, 1876, for 5 years.

Claim.—1st. The detaching type driver combined with actuating means, whereby it is forced against the type, first by a feeble spring pressure, sufficient only to detach the type from its connection with the line of type, and cent only to detach the type from its connection with the line of type, and afterwards, when the type has been detached, by a stronger spring pressure for the purpose of carrying the type into a position when it is controlled by another mechanism in the distributing machine; 2ad. The combination with a type driver and a type carrier, of an elastic torgue, which is moved in advance of the movement of the type driver, and which constitutes a guide for leading the type into the carrier, as it is forced in by the type driver and which opens the clutch of the type carrier; 3rd. Type carriers each so constructed as to receive and hold a type, each carrier being a complete independent removable instrument for that purpose by itself, 4th. In combination with the type carriers two plungers moving in opposite directions of the type carriers two plungers moving in opposite directions. combination with the type carriers two plungers moving in opposite direction the one operating on the front and the other on therear of carriers, or other equivalent devices for moving a number of type carriers with an intermitent auton permitting an interval of rest for the purpose of removing the type; 5th. In combination with the type carriers two drivers moving in opposite directions simultaneously acting the one forcing one carrier from

the front to the rear row, and the other forcing one carrier from the rear to the front row with an intermit ent motion; 6th. The combination of cams Q2, and Y1, with the plungers and drivers for presenting a constant succession of type carriers to the ariver a single one at each stroke of the type driver for the purpose of receiving the type. 7th. In combination with the type carriers the two pairs of channel ways for the movement of the carriers so that the rows of carriers in each pair will be moved in lines parallel to each other and in opposite directions, 8th. The combination of the hook or each for ejecting the type from the carrier with a sliding detent for dropping the hook into action and a slide armed with projecting pins for determining the denomination of the type in the carrier; 9th The combination of independent travelling carriers carrying type to be distributed with a series of hooks or catches for ejecting the type from the carrier at the appropriate places; 10th The combination of a morable flager C, with the cut off plunger A, and the controlling lever E; 11th. In combination with the type carrier, the improved ejector for throwing the type out of the carrier opening without a spring; 12th. In combination with the type carrier is driven forward to the initial point of the carrier movement, 13th. The combination of the ejector hooks, with vibrating toes or cams, for the purpose of elevating the hooks independent of their own movement; 14th. The combination of the rocker arm Y, with hook W, operated by the cam V2.

No. 6001. Improvements on Grain Separators.

(Perfectionnements aux séparateurs des grains.)

Hermann Kurth and Edward P Allis, Milwaukco, Wis., U. S., 24th April, 1876, fe 5 years.

18th, 1e. 5 years.

Claim.—1st. The combination of a revolving cylinder, having a perforated surface with a self-adjusting roller revolving about an axis parallel to the axis of the cylinder and situated directly over the cylinder, so that outer surfaces of cylinder and roller are always in confuct, whereby any grains lodging in the perforations of the cylinder are forced back into said cylinder by the weight of the roller coming upon them. 2nd The combination of a revolving cylinder, having indentations in its inner surface, with a cylinder of a smaller diameter having a perforated surface, and revolving in an opposite direction a self-adjusting roller a revolving brush, a catch board, covered trough and endless conveyer.

No. 6002. Improvements in Globe Valves.

(Perfectionnements dans les soupapes à boulet.)

Nathaniel C. Locke, Salem, Mass , U S., 24th April, 1876, for 5 years.

Claim -1st The prolongation or extension II, to valve stem seat b, con-Talm - 18t 110 promogation or extension it to varie seem seat of constructed and formed to closely fit within and to continuously surround the valve opening E 2nd The combination with the prolongation or extension H. of valve stem seat b constructed to closely fit within and to continuously II. Or wave seem sent θ constructed to closely in within and θ continuously surround the valve opening E. 3rd. The end f of the prolongation. II. to valve stem sent b, bevelled, 4th The combination of the sent a, of the valve case constructed with a recess g with the sent b, of the valve stem all b0 as to leave the recess g, open and clear when the sent b, of the valve term is closed against the sent b1. the seat o.

No. 6003. Improvements on Horse Rakes.

(Perfectionmements aux râteaux a cheval.)

John F. Thomas, Hion, N. Y., U. S., 24th April, 1876, for 5 years.

John F. Thomas, Ilion, N. Y., U. S., 24th April, 1876, for 5 years.

Claire.—1st. A driving wheel B, for a horse hay take having its hub provided with a drachable clutch or ratchet wheel E. 2nd. The combination of a take wheel B having a cast from bub and a detachable clutch or ratchet wheel applied to said hub. 3rd. The combination of the wheels B, provided with toothed clutches E, and shding rods F mounted on the axle, 4th. In combination with the clutches E the sluding spring rods F., 5th. In combination with the rods F, the pinens 6 and B luks I, and lever K, 6th. In combination with the junion G, mounted on the axle, the stop arm L, mounted on the frame. 7th. The combination of the axle A, and the frame united by the hooks, 8th. The plates O, each adapted to hold two rake teeth secured upon the axle.

No. 6004. Improvements on Churns.

(Perfectionnements aux barattes.)

William Divell Burnhamthorpe, Out., 27th April, 1876, for 5 years.

Claim.—In combination with the shaft D, the block C, having attached by means of hinges, the two wings E in combination with the stay F.

No. 6005. Stove-pipe Thimble.

(Donille de tuyan de poële.)

John T. Hall, Caseville, Mich., U.S., 27th April, 1876, for 5 years.

Claim- The combination of an outer sheet metal casing A, and a lining B, in sections d, the clay brick or other non-combustible material polygonal or of cylindrical form corrugated on one or both periphenes withor without the cast or sheet metal heads C having lugs b, and inwardly projecting wire or diange on lower enc of casing A.

6. Apparatus for the Manufacture of Illuminating Gas from Petroleum, &c. No. 6006.

(Appareil de fabrication du gas d'éclairage avec du pétrole, &c.) John McLarty, Racine, Wis., U. S., 27th April, 1876, for 5 years.

Claim.—The combination of the oil supply pipe a_i steam pipe b_i coil e_i and retort B_i , with a beach of coal gas retorts provided with pipes f_i , g_i

No. 6007. Improvements on Advertising

Devices. (Perfectionnements aux appareils de publicité.) Robert D. Bannister and Samuel Milligan, Geelong, Australia, 27th April, 1876, for 10 years.

Claim.—Making advertising compartments A, so as to receive a number of cards and with a spring B, to press them forward.

No. 6008. Chimney Sweeper.

(Ramoneur de cheminée.)

Césaire Charbonneau, Montréal, Que., 27th April, 1876, for 5 years.

Cesaire Charbonicau, Montéal, Que., 27th April, 1876, for 5 yéars.

Résumé.—lo. La combinaisen du parallélogramme G, 1 osé à l'intérieur du canon de la cheminée A, formé par des équerres II, avec boutons J, et conlisses I, se rétrécissant à volonié, attachés aux angles de la monture K, à ressort, qui fait mouvoir les équerres II; 20. La combinaison de la chaine saus fin, attachée aux deux extrémités de la monture K, passant sur les poulls C, et D, du sommet et du bas, et la manyché E, pour faire mouvoir rappared 30. La combinaison de la brosse L, faire en broche s'ucier sur un parallélogramme M, en for de 4 bes pet le dune asion pour reuplacer le parallélogramme G, pour rendre le travail plus aisé pour les chaminées courbées.

Claim.—1st. The combination of the parallelogram G, placed in the interior of the channey flue A, formed by squares H, with buttons J, and grooves I, that may be marrowed at pleasure, attached to the angles of the frame K, with a spring which moves the squares H; 2nd. The combination of the endless chain attached to the two extremities of the frame K passing over the pulleys C, and D, at the top and bottom, and the crank E, for moving the apparatus and L ne combination of the brush L, made of steel wire upon an iron parallelogram M, of small r dimensions to take the place of the available control G to make the ways cover crowled channess of the parallelogram G to make the week caster in crooked channeys

No. 6009. Improvements on Thread Reels.

(Perfectionnements aux bobines a ficelles.)

James Clarke, Montreal, Que., 27th April, 1876, for 5 years.

Claim. - The commutation of the recie, and recle, fraction h, and cord and weight f. and g.

No. 6010. Machine for Coiling Hoops.

(Machine a plan les orcles.)

John B. Pike, Harwick, Ont., 27th April, 1876, for 5 years.

Claim.—The back plate revolving with the disc on which the hoops are colled, or in as stead, a stationary back plate Γ —with rollers σ σ , σ , the hoop guide consisting of disc B eross bar Γ —and rollers Γ —C—C—or instead of rollers C. C. C. a plate revolving on a centro pur placed in the disc B, and cross-bar D.

No. 6011. Improvements on Mucilage Bottles.

(Perfectionnements wax pots à murilage.)

John P. Haseltine, Coaticook, Que., 27th April, 1876, for 5 years.

Claim.—ist. The nucriage buttle A, having a flat sided bottom b, a raised back and a neck c, inclining upwards; 2nd. The combination with the bottle A, of the cork B, having a brush c of bristles arranged around a central tube D, passing through the cork; 3rd. The cap E, in combination with the bottle A, and the brush C

No. 6012. Improvements in Steam Governors.

(Perfectionnements aux gouvernateurs de vapeur.)

William Yates, London, Oct., 27th April, 1876, for 5 years.

Cann.—1st. The separate valve chamber P with any number of narrow ports and valve O to excressood whether circular or flat. 2nd. The sleeve r, arin G and other putter H for the bett ughtener. 3rd. The cranks J, and 3, and shaft I, with journal box F, the mode of attaching to speeder arm for safety attachment, being applicable to any ordinary piston governor.

No. 6013. Manufacture of Barrels from Pulp.

(Fabrication des barils de pulpe.)

George W. Laraway, Port Byron, N. Y., U. S., 27th April, 1876, for 5 years.

Comm.—1st. A monded pulp barrel having homogereous enlargements and body. And A monded to necessed pulp higed barrel, 3rd. A monded pulp barrel the fibres of the ends thereof being of stronger material than those of the body.

No. 6014. Hydraulic Brakes for Gun Carriages.

(Freins Mydrauliques pour les affâts de canons.)

Alfred Krupo, Essen, Prussia, 27th April, 1876, for 5 years.

Claim.—Forming the postor in hydraulic brakes of gun carriages in two parts and fit ed with pistor ods, valves disc, and other accessories whereby a perfect control is obtained over the traverse of the gun carriage upon its slide.

No. 6015. Improvements on Clothes Dryers.

(Perfectionnements aux séchôirs à linge.)

Montagn A. B. Sh pman, Ottawa, Ont., 27th April 1876, for 5 years,

Claim.--1st. A clothes drier constructed of the cross-bars A, A, B, B, diagonal bars C, D, ax al bar G, and top bars E, F, the bars H, H, and bars I, I, const off og a styphementary tring frame. 2nd The provision to the bars E, F of the main frame of the larged or pivoted metal, or wood bars J, ad justable horizon ally and falling to a perpendicular posit on

No. 6016. Canopy for Buggies, Phaetons, &c.

(Sought de hoghers, phaetons, &c.)

George R. McCrea Bowmanville Out , 27th April, 1876, for 5 years.

Claim .- lst. The front posts B. B. having knee-shaped tops G. G. and Claim.—18. The front posts B. B. having knee-shaped tops G. G. and held by the pins J. J. within the brackers J. I. prefer rably formed by the side plates H. H. in combin tion with the folding braces K. K. hinged to the front posts B. B. at L. L. and to the plates H. H. at M. M. 2nd. The side plates H. H. rivitted or otherwise lastened to the frame D, and having acms R. K. R. in combinate a with the bows E. E. E. and. The stop bar X. attached to the back posts C. C. in combination with the hinged front posts B. B.

Improvements on Door Springs No. 6017. and Locks.

(Perfectionnements aux ressorts et aux serrures de portes,)

William H. Myers, Edwin H. Osborn and James M. Fox, Oregon, Wis., U.S., 27th April, 1876, for 5 years.

Claim.—In combination with the two pivoted arms C. E. the arm E, having a stop $\log l_i$ on its free end, the spring G, the pivot screw h, and j, washer k and shell i.

No. 6018. Guide for Bench Planes. (Guideralist)

Harrison P. Taylor, Franklin A. Perdue and Jeremiah M. Perdue, Minerya. Ohio, U. S., 27th April, 1876, for 5 years.

Claim .- The combination of plate A, slide single set screw C1, and qua

No. 6013. Station Indicator. (Indicatour de station)

George Allan, Waterloo, Arthur J. M. Tenny, St. Johns, John Allan, St. Vincent de Paul, and James Allan, Montreal, Que., 27th April, 1876, for 5 years,

Claim.—1st. The combination of the case A. with opening A., slide A. rohers D. D., with ends d, d, band G. and guides Γ , Γ , 2nd. The combination with the box A, and partition B. the hearings C. C:, with clastic packing ϵ , and setserews Γ , 3rd. In combination with the rollers D. D., with ends d, the ratchet wheels g, g, with pawls H, H, and rod K.

No. 6020. Middlings Purifyer.

(Enurateur des gruaux,)

Louis Gathmann, Chicago, Ill., U. S., 28th April, 1876, for 5 years.

('laim .- 1st. The combination with the screens G, G1, G11, made of holling Claim.—1st. The combination with the screens G, G:, G1:, made of botting cloth and the sneshes of said screens increasing in size consecutively of the discharging board L, carrying aprons H, H1, and J, J1, bottom board h, and pouts m, m:, 2nd. The combination with the screens G, G:, G1:, G1:, discharging board L, aprons H, H1:, and J, J;, 3rd. The combination with the screens G. G:, discharging board L, aprons H, H1:, and J, J;, of the openings g, and valves g1:, 4th. The combination with the screens G, G:, G1:, of the reciprocating bar R, arms T, and scrapers t.

No. 6021. Brick Kilns. (Four a chaux.)

Robert Carroll and William M. Jamieson, Toronto, Ont., 28th April, 1876, for 5 years.

Claim.—1st. The side arches C, C, into which the furnaces open, arranged in connection with the end arches D, D, for the purpose of forming a continuous passage around the body of the kiln for the fire and provided with the cut off dampers F, 2nd. The centre arch C, divided into independent settions by the draft walls c, and connected to the side arches C, C, by the ordinar "rehes D, the entrances to the said arches D, being fitted with cut ordinar' "relies D, the entrances to the said arches D, being fitted with an off d...pers Dr. operated by the pivoted lever E, or any equivalent mechanical device from the exterior of the kiln case; 3rd. The flues II, placed at suitable intervals at or near the crown of the arches C, or leading direct from the errown of the furnace and provided with cutoff dampers III, operated from the exterior of the kiln by the rods II-, the said flues being arranged to lead the heat from the arches or furnaces upwards to the sointhed courses 4th. The hopper bottomed fuel reservoir I, placed over the furnaces and provided with the leading pipes I2, the said pipes being fitted with the cut-off dampers Ji, draw valve J, and rose K, 5th. The shield block G, placed in front of the furnaces Bi, within the arches C, C.

Flat Iron Heater and Oven Combined. No. 6022.

(Poële à chauffer les fers à repasser et fourneau combinés.)

James C. Harper, (Assignce of Charles G. Besse), Wilton, Mo., U. S., 20th Aprol, 1876, for 5 years.

Claim .- The heater A, provided with the opening B, grate D, and cover l.

No. 6023. Process for Making Felt Water Proof.

(Procédé pour rendre le feutre impermiable.)

Cyrus E. Moyer, Berlin, Ont., 28th April, 1876, for 5 years.

Clasm .- The process of making Felt Water proof by the use of alum and sugar of lead.

No. 6024. Machine for making Cutting Irregular Figures, &c. Machine for marking out and

(Machine à tracer et couper les objets de forme irrégulière.)

Hugh McAdams, Toronto, Ont., 28th April, 1876, for 5 years.

Claim.-1st. The slotted bar F, pivoted to the plate A, and provided with a stud pin I, and roller J, in combination with the groove C. 2nd The carriago head H, fitted to the bar F, and proved with a roller M, in combina tion with a pivoted head N, provided with a knife Q.

No. 6025. Improvements on Fret Saws.

(Perfectionnements aux seies à évider.)

Sylvester B. Fuller, Lynn, Mass., U. S., 28th April, 1876, for 5 years, Claim .- 1st. The combination of the handle C, its guides F.F. and operative spring G, with the saw carrier B, and the supporting frame D, E, 2nd. To combination of two plates D, E, and the connecting hinge H, with the saw carrier B, its handle C, and the guides F, F, thereof, 3rd. The combinates of the extension leg I, and its clamp screw L, the frame D, E, the saw carrer B, and the handle C.

No. 6026. Improvements on Pans and on Dies for their Manufacture.

(Perfectionnements aux casseroles et aux matrices pour les fabriquer

Henry Martyn, Medford, Mass., U. S., 28th April, 1876, for 5 years.

Caim.—The making of boxes or pans a sectional female die having each of its sections scarfed upon those next to it, in each section Λ , as provided with the two scarfs c, d, to each of its arms F, in each section as provided with the two scarfs c, d, to each arm f, and with the tongue e and groove g, with it, in the combination of the series of separate bars C, with the carrier B, and the expansive sectional female die Λ , Λ , Λ , Λ , all with springs D.

No. 6027. Machine for Marking Mortises on Sashes.

Machine à tracer les mortuises pour les croisées.)

Samuel W. Dickinson, Potersburgh, Ont., 23th April, 1876, for 5 years.

The base N. frame B. B. and D. bars A. and A. marking bits C. and O. springs E. and Z. and gauges F. F. and R.

No. 6028. Improvements in Dumping

Wagons. (Perfectionnements dans les wagons à bascule)

Isiac W. Van Norman, Hastings, Ont., 28th April, 1876, for 5 years.

Claim.—1st. The arrangement of the traps D. E. F; 2nd. The arrangement of draught gear.

No. 6029. Attachment for Threshing Ma-

Chines. (Disposition and machines à battre.)
Robort Burt, South-Dumfries Ont (Assignment William Carey), 28th April, 1876, for 15 years.

(laim.-The complete attachment and also the movable board U, with the two uprights V, V, both working together.

No. 6030. Improvements on Reapers.

(Perfectionnements anx moissonneuses.)

John Haggart, Brampton, Ont., 28th April, 1876, for 5 years.

Claim.—The application and combination of ratelect lover with spring and dog E connecting by chain or otherwise with the compound lover A, attached to reaper or mower frame C, then connected by link or joint to drag bar or shoof I, of reaper table or mower Bar B.

No. 6031. Improvements on Gang Ploughs.

(Perfectionnements aux charenes à socs multiples.)

John Currie. St. Thomas, Ont., 28th April, 1876, for 5 years.

Claim.—1st. The wrought from frame A, cross but B (or brace), and top and bottom plates C, C:: 2nd In combination with the standards D, of a gang plough, the steel-cutters E,

No. 6032. Improvements on Rotary Engines. (Perfectionnements and machines rotatoires.)

William Haven, Clymer, N. Y., U. S., 28th April, 1876, for 5 years.

Claim.—1st. The combination with a revolving wheel and piston B, c, of a revolving abuttment D, arranged in a chamber G, leaving a space around the rear side of the abutment in which the steam enters, so us to press the abut ment against the wheel to which the revolving piston is attached; 2nd. The revolving abutment D, provided with one or more steam passages or chambers extending through the abutment from end to end, so as to prevent the same from being pressed against the cylinder head by the steam; 3rd. The combination with the cylinder A, and steam chamber E, connected by segmental port f, of the revolving abutment D, provided with recess d, so that the admission of steam to the cylinder is regulated by the cavity of the abutment travelling over the port; 4th. The combination with the revolving wheel B, or D, of the adjustable packing ring i, arranged in a recessor groove of the wheel provided with apertures I, so as to admit the steam behind the packing ring, whereby the same is pressed against the walls of the cylinder; 5th. The combination with the wheel B, and piston c, of the adjustable packing ring, and plates 1, k, and apertures I; 6th. The combination with the revolving abutment D, and exhaust pipe m, of the adjustable open shell or case M, so constructed that by reversing the position of the shell, the engine will be caused to run in an opposite direction.

No. 6033. Improvements on Lime Kilns.

(Perfectionnements aux fours à chaux.)

Ananias Smith, Clifton, Ont., 28th April, 1876, for 5 years.

Claim.—lst. A lime kiln provided with combustion chambers adapted for the employment of liquid fuel or vapour produced therefrom, 2nd. The combustion chamber or chambers of a lime or cement kiln, having the inner walls set back from a perpendicular line of the shaft, toward the outside of the structure so as to insure the collection into the lower chamber of the kiln, of the burned or unburned contents as they pass down in front of the combustion chamber; 3rd. The combination of a line or cement kiln with a steam boiler, a liquid fuel tank and the necessary pipes for connecting the same with the combustion chamber or chambers, 4th The combination of a lime or cement kiln, a liquid fuel tank, a steam boiler, a super-heater and the necessary pipes for connecting the s. me together, and with the combustion chamber or chambers.

No. 6034. Improvements on Carriage Seats.

(Perfectionnements aux sièges de voitures.)

Christian K. Mellinger. Harrisburgh, Pa., U.S., 28th April, 1876, for 5 years. Claim.—1st. A panel. in combination with the jumping seat supports having a commor motion with, and being retained in position in said supports. 2nd. The still from H.S. in combination with the supports A.B., the boits g, g_1, g_2 , and seat irons F; 3rd. The sill irons K, e, d, in combination with the supports D2, l, f, and the seat irons F_2 , F_2 .

No. 6035. Improvements on Track Clearing Machines.

(Perfectionnements aux machines à nettoyer les voies de fer.)
Ira II. Schell and William Milton, Brewerton, N. Y., U. S., 28th April 1876, for 5 years.

Claim.—1st. A machine arranged to convey the snow from the track to the top of a car or carrier moved upon an inclined plane by endless chains, the elevator A, hinged or pivoted to a car in such a manner as to allow its from tend to be raised and its rear or upper end to be depressed. 2nd The combination with the car C, of the shaft 2, attached to the top of the car at we near the front end thereof and the clovator A, hinged at the under side of its frame some distance from its upper end to the shaft 2 aforesaid. 3rd. In combination with the elevator of a machine for removing snow from railways, a transverse carrier attached at its side to the upper end of the elevator and having its chute open on top, and its side where connected with the elevator and the bottom of said chute slightly curved upward at the ends proxided with cross bars or scrapers moved upon the bottom by endless chains driven at an accelerated speed by gearing connected with the graring of the clevator, 4th. In combination with the elevator A, the transverse carrier D hinged at the top of its side to the upper end of the elevator frame and having its chute open on top and on its side where connected with the elevator and constructed of the two sections s, s, provide v ith plates p, attached to one of the sections, and sliding in grooves on the other section; 5th. The combination with the elevator A of the breakersb, attached to the endless chain c, back of and mour to the carriers m, m; 6th. The combination of the engine E, situated in the rear portion of the car C, and independent of the propelling power and connected with the counter shaft o the gear wheel 4, pinion 3, wheels 1, and 5, and their intermediate gearing and the elevator A: 7th. The car C, provided with the snow plough B, and carrying the engine E, in one end suitably connected with the counter shaft o at or near the upper corner of the opposite end the wheel 4, on the outer shaft o at or near the upper corner of the opposite of the intermediate gearing and the elevator A: intege

No. 6036. Improvements on Pumps.

(Perfectionnements aux pompes.)

John Woodville, Washington, Ind., U. S., 28th April, 1876, for 5 years.

Claim.—1st. The combination with a tank or reservoir and with a sectional pump cylinder, of a bottom stranner and concave encircing dish above the same; 2nd. The combination of an elastic sectional pump cylinder with a supply tank recaprocating presser and exit pipe. 3rd The combination with the stirrup of the presser and fulcrum of the back board of the forked detachable lever handle and sliding lock prece or late. 4th The combination of the swinging stirrup with a retaining belt or strap attached to the back board. 5th. The detachable fork-shaped lever handle having becking recesses and guide hips at one end, one being crow bar-shaped at the other end.

No. 6037. Improvements in Attaching Handles to Pumps.

(Perfectionnements dans l'ajustage des brimbales de pompes.)

Oscar E Furber and Frank O Furber, Saco, Me., U. S., 28th April, 1876, for 5 years.

Claim.—The hallow metallic case A, provided with an opening C, and the movable drum B, the latter having a handle C extending diametrically through its periphery, such drum and handle being prvoted on the rol d, the whole being constructed, combined and arranged for application to the body of a pump.

No. 6038. Improvements on Core Augers.

(Perfectionnements aux tarrieres a percer les ames.)

Owen W. Townsend, Fond-du-Lac, Wis., U. S. 28th April, 1876, for 5 years.

Claim — The cutter head A, having its inner ring a, beyelled or chamfered at its lower edge, and its outer ring as, at its upper edge.

No. 6039. Improvements on Harvesters.

(Perfectionnements aux moissanneuses.)

Samuel Noxon, jr., Ingersoll, Ont., 28th April, 1876, for 5 years.

Claim—1st. The arm D, having segment cogs G, and lover H, baving cogs B, engaging therewith and pyoted to an arm E, having rack K · 2nd, the rake head arm M, constructed in two parts such having a hollow tranion to cast integrally, therewith, semi-divided through the journal N, receiving the cam roller O and provided with a nut P.

No. 6040. Improvements on Oil Cars.

(Perfectionnements aux bidons à l'huile.)

Samuel W. Aldrick, Hermon Leonard Syracuse, and Isaac R Pharis, Goddes, N. Y., U. S., 28th April, 1876, for 5 years,

Claim—1st In combination with the tank A, having in its bottom, the outlet c provided with the valve c, the measuring chambers m, m, having their bottom inclining and their top ascending toward the front and provided thereat with the faucet n, having ventiluet r; 2nd. The combination with a faucet of the arm or book x attached to the spigot to turn automatically

therewith and carrying at its free end the detachable drip cup o; 3rd. In therewith and carrying at its free end the defactable drip cup of 3rd. In combination with the measuring chamber m, the faucet n, having its discipance transversely through the spigot and through a downward curved extension of the faucet barrel in front of the spigot, and provided with the exterior tube r, on top of the faucet-barrel and its downward curved extension aforesaid, and no extra-passage transversely through the spigot, above and parallel with the translation. with the liquid passage through the same.

Improvements on Force and No. 6041. Lift Pumps.

(Perfectionnements aux pompes aspirantes et foulantes.)

Eugene F. Adsitt and Darius Calkins, Waterloo, N. Y., U. S., 28th April, 1876, for 5 years.

Claim.—1st. In combination with the bucket A, and opening h, of a force pump, the waste water opening j, located in the stationary piston. 2nd. In combination with the elevating pipe C, of a pump and the prisonatio slove, formed on or securely connected to it, the adjustable supporting collar k, having a corresponding polygonal central opening

No. 6042. Improvements on Washing Machines. (Perfectionnements aux machines à laver.)

Philip Schweikart, Buffalo, N. Y., U. S., 28th April, 1876, for 5 years.

ramp Schweisart, Bunno, K. Y., U. S., 22th April, 1876, for 5 years. Claim.—1st. The combination with the frame Λ , of the stationary rubbing boards F, pivoted at one end, and provided with spring pressure bars l_* and the reciprocating rubbing board Br; 2nd. The combination with the movable rubbing boards Bi, of the stationary boards F, langed at one end to the cross piece g_* , and attached near the middle to the pivoted crosshead K, so that by turning the latter, the free ends of the boards F, are raised or lowered; 3rd. The combination with the stationary rubbing boards F, of the box B, provided with rubbing boards Bi, rack d_* connecting gears D, e_*e_t , e_*^2 , and segment and lover E, Et.

No. 6043. Improvements on Sewer Traps.

(Perfectionnements aux trappes d'égoûts.)

John Snow (Assignee of Andrew Ely), Rochester, N. Y., U. S., 28th April, 1876, for 5 years.

The combination of the case A, constructed with the square top. the inclined back b, the angular or inclined shelf c, the inclined sunken peat d, and the swinging valve B.

No. 6044. Improvements on Saw-teeth.

(Perfectionnements aux dents de scies.)

Simon P. Randolph, Tehama, Cal., U.S., 28th April, 1876, for 5 years.

Claim.—1st. A saw plate or cutter head provided with teeth or cutters A. A., or A., each of which has a planing lip or flange B, formed on one or both sides of its cutting-edge, so that the edges of said planing lips or flanges are in the same plane with the cutting-edge of the tooth or cutter.

No. 6045. Improvements on Vehicle Axles and Axle Boxes.

(Perfectionnements aux essieux et aux boites d'essieux de voitures.)

James B. Winchell, Benton Harbor, Mich., U. S., 1st May, 1876, for 5 years. Claim.—1st. An axle or axle thimble, with scraper E. and flanges C, D; and In combination with the above, the box F, with prolonged inner edge b, projecting over and beyond the flanges C, D; 3rd. The scraper E, attached to an axle or axle thimble.

No. 6046. Improvements on Hose and Pipe Nozzles.

(Perfectionnements aux lances de boyaux et de tuyaux.)

Melville Clemens, Worcester, Mass., U. S., 1st May, 1876, for 5 years.

Claim.—1st. A hose or pipe nozzle provided with a cone valve k, placed concentrically in the nozzle and seating at its discharge orifice g_i , and adapted to form regulate and stop the stream; 2nd. The stop nozzle consist-t, having divergent holes w, w, to form a spray or solid stream.

No. 6047. Improvements on Machines for Scouring and Polishing Grain.

(Perfectionnements aux machines a nettoyer et polir les grains.)

Marcus D. Beardslee, St. Louis, Mo., U. S., 1st May, 1876, for 5 years.

Marcus D. Beardslee, St. Louis, Mo., U. S., 1st May, 1876, for 5 years.

Claim.—1st. The combination of spirally ribbed rotating cylinder D, the enclosing cylindrical case K, L, having orifices therein to allow the escape of refuse, with feed and discharge spouts G, and H, communicating with the grain space F, between the cylinder and case; 2nd. The cylindrical case composed of parallel slats or bars K, and enercing houps L; 3rd. The adjustable cylinder K, L, supported on adjustable screws N, 4th. The combination in the cylindrical case formed of bars K, and hoops L, of the slip joint L, stay screws M, and removable bars K₁, 5th. The rotating cylinder D, with spiral rib E, having teeth e.

No. 6048. Improvements in Heating Stoves

(Perfectionnements dans les calorifères. 1

Julius F Quimby, Troy N Y., U S., 1st May, 1876, for 5 years.

Julius F Quimby. Troy N Y., U S., 1st May, 1876, for 5 years. Claim.—1st. The descending flue H, and ascending flue J, separated by flue strip S, in a single piece or in sections extending from the damper d, to the bottom of the chambers a, and b, with their upper portions relatively parallel with a line tangent with the combustion chamber and their lower portions relatively transverse with the said upper portions; 2nd. The combination with the space enclosing the descending and ascending flues comprised by a single piece or sections of the flue strip S, dividing the said space to form said flues by the lateral extension of its width from side to side in its upper portion and from front to rear or transversely in its lower portions with the twist e, between said portions; 3rd. The combination with the super draught chamber C, and combustion chamber F, of the perforations z, z, in the upper margin of the fire pot; 4th. The combination with the combustion chamber F, descending flue H, located at the rear of said combustion chamber, of the super draught chamber C, and perforations z, z leading from said draught chamber to said combustion chamber; 5th. The combination with openings x, and x1, provided each with lugs u, having bolt holes 2, 2, of the exit flue k, and stop plate k1, each provided with corresponding bolt holes 3, 3, and capable of an interchange of places for similar attachment with said openings. similar attachment with said openings.

No. 6049. Improvements on Window Sashes.

(Perfectionnements aux croisées de fenêtres.)

William Milner, Strathroy, Ont., 1st May, 1876, for 5 years.

Claim.—1st. The combination of the spring I, the spring case A. with spring attached, the sash cord at B, or cogs and the stem or journal J. 2001. The spring F.

No. 6050. Mode of Drying Paint.

(Mode de séchage de la peinture.)

William McKay, Ottawa, Ont., 1st May, 1876, for 5 years.

William McKay, Ottawa, Ont., 1st May, 1876, for 5 years.

Claim.—1st. The process of generating oxygen gas in a suitable retort said process consisting in forcing the oxygen gas by pressure or other means into the vessel containing the oil and in bringing the oil to the boiling state wherein it will absorb the oxygen gas, and will combine with it to produce a strong drying oil; 2nd. The drying oil, made by combining linseed oil or other oil, manganese and sulphurio acid, or manganese and chlorate of potash, or nitro with oxygen gas; 3rd. The oil dryer made by combining oxygenated linseed oil or other oil, manganese, litharge, acetate of lead or sulphite of zinc with spirits of turpentine or oil of turpentine and benzine.

No. 6051. Self-discharging Manure Spreader.

(Distributeur automatique d'engrais.)

Thomas A. McDonald, Durham, Ont., 1st May, 1876, for 5 years.

Thomas A. McDonald, Durham, Ont., 1st May, 1876, for 5 years.

Claim.—1st. The combination of the six sided rollers E. Et, intermediate shaft I, rollers F. F. ander rollers H, slotted endiess apron G, swinging tan board J, tooth cylinder K, and concave block L. with teeth, with the traine A, to make a self-discharging manure spreader, 2nd. The combination of the double grab wheels T. Ti, and S. Si, and chain U, on the left hand side of the spreader, grab wheels N, and Ni, on the right hand side of the spreader with the endless apron G, togive it its travelling motion; 3rd. The combination of the dram pulley Q, grab wheel R, and cross chain T2, with the tooth cylinder k, to make it revolve; 4th. The combination of the foot lever in lever a, rolls I, 1, 1, and toggle k, tighteners V, V, locking heads t, face plate e, with hubs g, of the rear wheels D, to gear or outgear the mechanism of the self-discharging manure spreader; 5th. The combination of the foot lever m, levers or rolds I, i, j, and toggle k, tighteners V, V, ratchet wheel k and pawks with hub g, of the wheels D, to gear or outgear the mechanism of the self-discharging manure spreader; 6th. The combination of the hunk B, elboved up or otherwise opened, and set on the front axle with the soluted apron G, to allow it to run endlessly; 7th. The combination of a double triple or quadruple cone pulley S, with the grab wheel T, T1, to spread me manure according to the thickness required.

No. 6052. Improvements on Detaching Check Reins.

(Perfectionnements aux crochets des sellettes de harnais.)

James McLean, L'Etété, N. B., 1st May, 1876, for 5 years.

Claim.—1st. A cord or strap C, attached to the check rem A, by a suitable bar or device B, locking and unlocking in a check loop or device E, on sad F, and extending rearwards, and attaching to one of the driving rems D. 2nd The combination of the check rein A, with a cord or strap C for detaching and attaching the same from a releasing and holding device on pad tree F.

No. 6053. Rock and Stump Machine.

(Arrache-souche.)

Austin Berry, Waterloo, Que., 1st May, 1876, for 5 years.

Claim.— 1st. The parallel independently operating ratchet bars B. B. having ratchet facing inwardly, lever F, rods G, G, and boxes E, E. in combination with the bar A, and alternate engaging spring pawls H, H, and L, L, 2nd The shding bar K, provided with springs J, the pawls H, H and springs I, I, in combination with the boxes E, bar A, and ratchet bars B. B 3rd. Spring pawls L, L, retracted by the action of the lever F.

No. 6054. Fish Hatching Apparatus.

(Appareil d'incubation des œufs de poisson.)

Samuel Wilmot, Newcastle, Ont., 1st May, 1876, for 5 years.

Claim.—1st. A fish hatching apparatus having a basin or basins in which the eggs during incubation are kept in motion by a flow of water circulating therein, and an overflow carrying off the defective eggs, with the waste water; 2nd. A fish hatching appar .us having one or more funnel-shaped or

rounded bottom basins D. a central pipe E discharging water downwardly therein and an overflow pipe H: 3nl A fish hatching apparatus having one or more funnel-shaped or rounded bottom basin D an induction tube I, discharging water upwardly into the same and a central tube and jacket, or their equivalent, digressing the inflow and a waste outlet pipe H.

No. 6055. A Churn. (Unobaratte.)

Charles H. Warren, Toronto, Ont., 1st May, 1876, for 5 years.

Charles H. Warren, Toronto, Ont., 1st May, 1876, for 5 years.

Claim.—1st.The single or double checked grooves, cut in the circular bottom of the churn to receive the arrespondingly fluished semi-circular ends G. G. in such manner that an open space is provided between the face of the ends, and the bottom of the groove, for the purpose of allowing the staves to be tightened up after shrinkage; 2nd. The strap bands B. fastened securely at one end to the upright sides Az. of the chure and provided with the buckle pieces D. with clamping scraw Dz. in combination with circular bottom Az., 3rd. The buckle pieces D. provided with the risk d, flanges Dz, and slots dz, and connected together by the screw bolt Dz, in combination with strap bands B., 4th Tl e dasher E. consisting of a central shaft Ez, supported within the churu in any suitable way, and provided with blades Ez, placed o.. an angle with the axes of the shaft, and having the counter sunk slots c, in combination with the circular bottom Az; 5th. The shaft Ez, supported at one end by the projection Ez, fitting into the bearing block Ez, and provided with a cap Ez, having a rectangular recess at the other end in combination with the shaft F, 6th. The tooth wheel G, provided with the flange Gz, in combination with the toothed wheel H mounted on the day of the dasher Ez, shaft F, wheel G, with flange G, wheel H, stud pin Hz, and kept in place by the linch pin L. or its equivalent, arranged for the purpose of speedily allowing the removing and replacing of the dasher from and within the churn, 8th. The handle K, with extension corner plates Kz, 9th. The double ventilating holes L, L, and sliding shield M.

No. 6056. Method of and Apparatus for Recovering Alkali.

(Mode et appareil de révivification de l'alkali,)

David A. Fyfe, Glasgow, Scot., 1st May, 1876, for 5 years.

Claim.—1st. Concentrating the liquor saturating saw dust or like substance therewith, and passing the substance so saturated through a retort wherein a estrict and charred, the vapours being drawn off, and condensed in order to obtain air gas and ucid liquor and the charred substance being exposed to the atmosphere to consume the organic matter and to leave the alkaline residue; 2nd. The floor c, provided with travelling scrapers and heated by the gases passing through the flue $b \cdot 3$ rd. The feed hopper provided with feed rollers p, fitted with corn scrapers; 4th. The combination of parts forming the complete appearance. forming the complete apparatus.

No. 6057. Improvements on Car-couplers.

(Perfectionnements aux attelages de wagons.,

John Mealey Fairville, N. B., 1st May, 1876, for 5 years.

Claim.—The combination of the book ended jaws B, B, hinged within the draw head A, springs D, D, and rotary cam E, or its equivalent for operating the jaws

No. 6058. Improvements in Horse Rakes.

(Perfectionnements dans les râteaux à cheval.)

Christopher C. Bradley, Syracuse, N. Y., U. S., 3rd May, 1876, for 5 years.

Claim .- 1st. Detachable hub ratchet plates A . 2nd Lateral braces B, B, Claim,—1st. Detachable hub ratchet plates A: 2nd Lateral braces B, B, to relieve the central strain upon the axle caused by the weight of the driver; 3cd. The combination of the foot lever K chain J crank G, yoke H, spring lever I, and hook catch L, to throw the dogs in bite with the ratchets; 4th. The combination of yoke H, hook catch L, spring Q, and connecting link N, to throw the dogs out of bite with the ratchet; 5th The combination with the ratchet hub plates A, sliding dogs E, connecting rods F, spring lever I, yoke H, crank G, chain J, foot lever K, hook catch L spring Q, and link N, the whole forming a foot operating automatically releasing mechanism for lifting and dropping the teeth of a horse hay rake.

No. 6059. Improvements on Locomotives and Carriages for Highways.

Perfectionnements aux locomotives et aux voitures pour les grandes routes.)

James C. Merryweather, Henry Merryweather and Christopher J. W. Jakeman, London, Eng., 6th May, 1876, for 5 years.

man, London, Eng., th May, 1876, for 5 years.

Clain—1st. The method of disposing of the exhaust steam from engines by projecting such steam through the fire; 2nd. The combination with the exhaust steam pipes a of an engine of the chamber b, pipes g. cocks c and nozzles d arranged in relation to the grate f and the chamber of the bodier. 3nd In connection with the exhaust pipe a, of an engine, the combination of a chamber b apening into the chimney with a rose q, arranged teneral the fire grate so that exhaust steam may be caused to pass partly through the chamber b up the chimney and partly through the rose q, and through the fire; 4th. The method of utilizing the steam escaping from the safety salve a said valve being constructed with a prolonged outlet 2, (with or authout a rose), through which the steam escapes in such manner as to damp the fire when blowing off and thus to check the excessive production of steam: 5th. The method ofarranging and coupling together a locomotive and an ordinary tram car k, said method consisting in providing the car that is to be drawn next to the locomotive with one or more bars l, arranged to slide in and out as required at the respective ends of the car from under the seats or platform, the end or ends of such bar or bars l, when drawn out being caused to rest up on screws n, wedges, cams, or equivalent con-

trivances on the frame of the locomotive, whereby the bar or bars is or are raised so as to throw the weight of the end of the car on to the locomotive, 6th. The conditionation and arrangement of the parts k, l, m, n, o, p, and u, for enabling a portion of the weight of the carriage k, to be thrown upon the locomotive u, by which the said carriage is to be drawn, 7th. The combination and arrangement of the parts k, t, u, v, v, and x, for enabling a portion of the weight of the carriage k, to be thrown upon the locomotive u, by a hich the carnage is to be drawn.

No. 6060. Improvements on Door Mats.

(Perfectionnements aux paillassons.)

Orrin Rice, Adrian, Ill., U. S., 6th May, 1876, for 5 years.

Claim. —A door mat formed of the back piece having screw threaded $\alpha \to s$, and the tuffs or bunches of corn husks secured therein.

No. 6061. Apparatus for the Starting of Street Cars, &c.

(Appareil de mise en mouvement des voitures à ornières, de.)

Etlenne Salomon, Montreal, Que, 6th May, 1876, for 5 years.

Claim—1st In combination with any car, the arrangement of a double mak but thrown by the action of the brake in and out of gear with an arbor formed on the axle of the wheels, said rack but being acted upon by the rotation of the axle for the purpose of compressing the air in a cylinder to other compressible substance) and operated by the expansion of the air or compressible substances on to rotate the arbour on the axle; 2nd. The combination of the plates D, carrying the rack but C, distance pieces F, and guides F, all working in the pillow blocks G, or any part of the frame of a cylinder; 3rd. The combination of the cam N, cam O, link O;, sliding but L, togglearms Kt, Kt, Lt, Lt, the whole being operated by the action of the brake for the purpose of raising and lowering the plates D; 4th. The combination of the cam N, cam P, bent arm S, and bat T, the whole receiving motion from the brake and operating the rack but C; 5th. The combination of the cam N, and cam Q, with the bat T, the whole actuated by the brake, and operating the rack bar C.

No. 6062. Hydro-carbon Gas Lamp.

(Lampe à gaz d'hydro-carbure.)

Charles E. Ball, Philadelphia, Pa., U. S., 6th May, 1876, for 5 years.

Claim.—1st. The copper wire coil D, located in the volatilizing chamber B, and serving as a frame or support for the fibrous material B; 2nd. In combination with the fibrous material B, and wire coil D, the punice stone packing D:: 3rd. The pipes E, and Et, for conveying air to the centre and outer surface of the coil D; 4th. The arm F, made of copper wire bent to form a ring f, and connecting with the coil D, serving as a chimney holder or stay and heat conductor; 5th. The novel combination of reservoir A, volatilizing chamber B, burner C wick tube A1, gas pipe C1, wire coil D, packing B1, D1, air pipes E, E1, and chimney holder and heat conducting arm F. Claim,-1st. The copper wire coil D, located in the volatilizing chamber B,

No. 6063. Machine for Heating Locomotive Water. (Machine à chauffer l'eau des locomotives.)

William H. Howell, Thorold, Ont., 6th May, 1876, for 5 years.

Claim.—1st. The combination of the pipes C. C. K. and I. 2nd The combination of the pipes C. C. K. and I. of the valves E. and F.

No. 6064. Improvements on Dredging

Machines. (Perfectionnements aux machines a draguer.)

Daniel Moore, Waterville, Me., U. S., 6th May, 1876, for 5 years.

Claim.—The steam chest B, water tank C, pape E, provided with stop cock F, pipe D, provided with the stop cock G, and receiver H, provided with the valves K, J, M.

No. 5867. Improvements on Seed Planters.

(Perfectionnements aux semoirs a légumes.)

James T. Carr, Mile, Me., U. S., 6th May, 1876. for 5, ears.

Claim— The plate L, provided with the coverers M, the bifurcated plunger E, provided with the feet G, and handle J, the slotted hoppers H, provided with the casings a, and the slide C, provided with the openings P.

No. 6066. Head-rest. (Appui-tête.)

George A. Shaw, Toronto, Ont., 6th May, 1876, for 5 years.

Claim.—1st. A portable metallic slip B, provided with guides Ji, through which passes the movable shan! J having a head rest or neck piece K, attached thereto together with the adjustable holder H, provided with a seeket I, and strung upon the strap F 2nd An adjustable holder H, strong upon the strap F, in combination with the strap C, provided with an adjustable buckle E: 3rd A pertable head rest or neck piece for car seat back, chairs, &c., consisting of an adjustable curved neck piece K, attached to the back of the seat or chair by a clamp or strap and buckle or other equivalent contributes. contrivance

No. 6067. Improvements on Axles.

(Perfectionnements aux essieux.)

William W Kisner, Goshen, Ind., U.S., 6th May, 1876, for 5 years.

Claim.—A vehicle axle A, having the brace D, and the blocks or pads d, d, f, held in place by clips c, c, c.

No. 6068. Improvements on Foot Powers.

(Perfectionnements aux moteurs à pédales.)

William F. Barnes and John Barnes, Rockford, Ill., U. S., 6th May, 1876

Claim.—1st. The combination of a stationary frame, a double cranked driving pulley mounted thereon and adapted to be driven directly by the feet of the operator and genting or belt connections passing from said driving pulley over a pulley or shaft of the machine to be driven whereby treadles are dispensed with; 2nd. The combination of the frame, the double crunked driving pulley mounted thereon, the driven pulley also mounted on said frame and connected by link connections with the vibrating saw frame, and the belt connections, passing from the driving to the driven pulley, whereby a simple, cheap and efficient scroll saw is obtained.

No. 6069. Improvement on Sun Protectors and Umbrellas.

(Perfection aement des tentes et paraphyées.)

Henry Palmieri, New-York, U. S., 6th May, 1876, fc. 5 years.

Claim .- 1st. In combination with a sun shade or umbrella, a back sup-('laim.-1st. In combination with a sun shade or umbrella, a back supporting brace, side pivoted brace and suntable wast and instringate securing straps; 2nd. A frame for supporting the canopy composed of a series of semi-circular ribs A, and a hoop B, secured by pivots in order dut the frame may collapse; 3rd. In combination with the parasol, an extra water proof cover with cape adapted to be secured in position by a draw string; 4th. In combination with the brace D, the wire brace C, provided with eyes to receive the martingale straps and having the tongue b; 5th. The strap II, split to form the connecting straps I, I, and J, J.

No. 6070. Sewing Machine Needle Threader and Setter. (l'asse-fil et posc-aiguille de machine à coudre)

Edmund S. Norcombe, Liverpool, Eng., 6th May, 1876, for 5 years.

Edininal S. Norcombe, Liverpool, Eng., 6th May, 1876, 107 5 years.

Cit tim.—1st. A needle-threader or setter for sewing machines having a top or surface to fit against the needle bar or lever of a sewing machine in such manner that the threading cone or its mechanical equivalent shall come opposite the right point for the needle eye (when the needle is set), when the flat top or surface above mentioned is against the bottom of the needle bar or lever or some particular point on the same. 2nd. A needle threader or setter in which the needle is held by means of a spring or springs, the clastic pressure of the spring pressing a suitably shaped surface or surfaces against the flat or grooved parts of the needle, and the point regulating the angular position of the eyo, 3rd. The vertical adjustable slider H, or the screw L, or their mechanical equivalents for adjusting the distance to suit varying machines or makes of needles; 4th. The threading cone E, Et, Ez, forned with a shit, closed by a spring so as to allow the thread to escape with a gentle pressure but normally closed; 5th. The combination of the swivelling or movable stop H, on the shank of the pressure foot with the threading cone E, their mechanical equivalents, 6th. The general arrangement of a sowing machine setter and threader.

No. 6071. Improvements on Door Fasteners.

(Perfectionnements aux arrête-portes.)

Cyrus Kinney, Ingersoll, Ont., 6th May, 1876, for 5 years.

t laim.-lst. The holder C, with spring D; 2nd. In combination with the holder C, and spring D, the catch F.

Improvements on Pen Extractors. No. 6072.

(Perfectionnements aux arrache-plumes.)

Josiah A. Hard, Denver, Col., U. S., 6th May, 1876, for 5 years.

Claim.—1st. The base A, provided with the vertical uprights B, between which is pivoted the cam lever D, 2nd. The combination of the cam lever D, having the lower part of its pivoted end corrugated or flated, in combination with the metallic base A.

No. 6073. Improvements in Folding Frames for Tents.

Perfectionnements and montures pliantes pour les tentes,)

Pranklin A. Guthrie, Addison, Obio, U. S., 6th May, 1876, for 5 years.

Claim.—lst. The combination of the hinged side-berths D, with the mainberths B. detachable rails C, and end frames A. 2nd The combination of the hinged legs E, with the side-berths D, hinged to the side rails C, of the main berths D; 3rd. The combination of the hugged posts F, with the end frames A, and side berths D, hinged to the rail C, of the main berths B; 4th. The hinged rafters G, and short hinged-posts H, in combination with each other, and with the hinged posts F, and the front posts of the end-frames A. 5th. The combination of the detachable poles J, with the hinged rafters G, and short hinged posts H. short hinged posts H.

No. 6074. Machine for Fitting Thimble Skeins on Lumber Waggon Axles.

(Machine à poser les cuillers d'essieux de wagons a bois.)

John Fraser, Woolwich, Ont , 6th May, 1876, for 5 years.

Claim.—1st. The turning frame B, 2nd. The application of the slide C, 3rd. The application of the screw D; 4th. The combination of the cog wheels (a, 5th. The application and combination of the kinfe carrier J, the lever L, and the kinfe K; 6th. The application of the regulating screw F.

No. 6075. Apparatus for Measuring Kerosene Oil and other Fluids.

(Appareil à mesurer la kérosine et autres fluides.)

John D. Muller, New-York, U. S., 6th May, 1876, for 5 years.

Claim.—1st. The measuring vessel E, with compartments K, L, M, N, O, and R, swimmer P, inlet pipe d, and outlet pipe S, and faucets T, and V, in combination with the reservoir A, with inlet pipe a, and outlet pipe b.

No. 6076. Improvements on Signal Buoys.

(Perfectionnements aux balises.)

John M. Courtenay, New-York, U. S., 6th May, 1876, for 15 years.

Claim.—Ist. An automatic signal oncy having a central tube extending from the mean water level to such a depth below the surface of the water that a constant water level is maintained within the tube, and by the ruising and lowering of the buoy by the action of the wavesand the eight of the buoy the air is compressed between a diaphragm and the mean water level in the tube; 2nd. A signal buoy having a central downward extending tube with a diaphragm at mean water level, said diaphragm communicating by an aircontinue tube with the bottom valve and an air exit tube, with the upper end of the buoy. 3rd. A signal buoy provided with a central downward extending the trainer tube with the bottom valve and an air exit tube, with the upper end of the buny. 3rd. A signal buoy provided with a central downward extending tube reaching from the mean water level of the submerged buoy to a depth not disturbed by the action of the surface waves, and serving to steady and guide the buoy during its up and down motion; 4th. A signal buoy, with central downward extending tube attached to an anchoring cable, at a point below the buoy, and having a rudder or steadying plate extending from the base of the baoy to the bottom tube.

No. 6077. Method of Moving the Log-Carriages of Saw-Mills.

(Methode de mise en mouvement des charriots de scieries.

Alexander Rodgers, Muskegon, Mich., U. S., 6th May, 1876, for 5 years.

Claim.—1st. The vibrating toothed segment G, provided with the curved slot S, or with a series of holes to receive the pin to which the outer end of the connecting rod is attached; 2nd. The segment G, in combination with the adjustable counter balance R; 3rd. The segment G, provided with the slot S, in combination with the connection I, cross head T, and its connected rod and piston within the cylinder; 4th. The saw-carnege A, rack C, wheel D, end pinion I, in combination with the segment G, and its operating mechanism, 5th. The crank shaft L, screw N, quadrant M, arm O, link P, connection I, and block Q, in combination with the segment G; 6th. The method of generating the law carriage of a sew mill by the direct action of an extent of operating the log carriage of a sew mill by the direct action of an elastic or inelastic fluid upon a piston to which the log carriage is attached by suitable connecting devices.

No. 6078. . Improvements in Land Rollers.

(Ferfectionnements aux rouleaux d'agriculture.)

Peter Bilyen, Sr., Prariton, Ill., U. S., 16th May, 1876, for 5 years.

Claim.—1st. The frame D. Dr, with twisted cross pieces d_i and d_i , provided with eyes f_i , the rods g_i hooks i, i, on pole II, and the extra rods j, j, 2nd. The covering P.

No. 6079. Improvements on Tram or Road Locomotives.

(Perfectionnements aux locomotives à ornières ou de route.)

Henry Hughes, Leicester, Eng., 16th May, 1976, for 5 years.

Claim.-let. The combination of a cold water tank for containing condensing water, and a receiving tank separate from it e boiler and into which such condensing water with the exhaust steam or water of condensation is supplied, the discharge of the condensing water from such cold water tank being rethe discharge of the condensing water from such cold water tank being regulated automatically; 2nd. The combination with the cold water tank in conjunction or not with a receiving tank of a condensing, or cooling chamber into which the condensing water and exhaust steam are simultaneously supplied for the purpose of effecting the condensation of the latter, the admission of such condensing water and exhaust steam being regulated automatically; 3rd. The combination with the cold water tank A, and condenser B, in conjunction or not with the receiving tank C, of the valves c, d.

No. 6080. Improvements in Gun Covers.

(Perfectionnements aux couvre-canons.)

George W. Havens and Alva Warden, Ypsilanti, Mich., U. S., 16th May, 1876, for 5 years.

Claim. —A gun case or cover made of sheep skin tanned with the wool on and made up with the wool on the inside.

No. 6081. Rivet Making Machine.

(Machine à rivets.)

George A. Gray, jr., Hamilton, Ohio, U. S., 16th May, 1876, for 5 years.

Claim .- The combination of the intermittently revolving arbor G, and the continuously revolving arbor II.

No. 6082. Improvements on air Coolers.

(Perfectionnements aux réfrigérants à air.)

James II: Bellinger, jr., Ogdensburgh, N.Y., U.S., 16th May, 1876 for 5 years.

-lst. The combination of the outside tank G. cover J. the register and stopper K, with inner tank II, to form a cool air chamber I: 2nd. The combination with the tank A, of the pipes L, and N cross-pipes O and re gisters to distribute the cool air to the milk haudds, &c.; 3rd. The combination of the tank A, with the milk pan C, or other vessel containing liquids milk, &c. to cool them 4th The combination of the tank A, with the staging I, runner S, rods or running bars or their equivalent, in order to distribute cools also takes when the staging I. staging '\(\ell\), runner S, rods or running bars or their equivalent, in order to distribute cooled alt where wanted, in a room, dairyroom, &c., or over, under or around the milk pans, &c: 5th. The combination of the tank A, the p.pes N, stoppers II, with communicating pipes coupled, hinged or linked, and registers to distribute cool air over, under, around or through any number of milk pans, &c., or throughout adjacent roo.as, dairy-rooms, &c., 6th. In combination with the tank A, the runner S, pulley I', chains T, hooks V, and W, or other gearings by which the air cooler is lowered or raised, or conducted around the rooms, dairy-rooms, &c.

No. 6083. Improvements in Capstans.

(Perfectionnements aux cabestans.)

James H. David, Damariscotta, Me., U. S., 16th May, 1876, for 5 years.

Claim.—The capstan formed of a set of vertical rollers or spindles B, C, with a double head D, E, and operated at different speeds by means of the cogged gearings F, G, H.

No. 6084. Improvements on Door Alarms.

(Perfectionnements aux timbres de portes.)

William Tanner. Onondaga, Ont., 16th May, 1876, for 5 years.

Claim.—1st The combination of the alarm and bell with strings or wires H and M. 2nd The combination of the electric benefit with strings or wires. If and M. and The combination of the elastic band I, on the end of string II, at front door, 3rd. The combination of weight P, on string M, with elastic I on string II, by which the alarm is worked for the back door or any other door

No. 6085. Machine for Swaging Saw-Teeth.

(Machine à donner la voie aux scies.)

Francis Culham Thedford, Out., 16th May, 16th, for 5 years. Claim .- The combination of the socket A, pln B, bolt C, upset D, and notches F.

No. 6086. Glove and Garment Fastening.

(Agrafe de gants et de vêtements.)

Frank G. Farnham, Hauley, Pa., U. S., 16th May, 1876, for 5 years. Claim - The bed plate B, in combination with the staple C, and hasp E.

No. 6087. Improvement in Wrenches.

(Perfectimnement des cles à écroux.)

Jay W. Powers and Francis M. Melick, Chicago, Ill, U. S., 16th May, 1876,

for 5 years. Claim.—1st. The stationary law B, provided with the longitudinal grooves a, and having a portion removed to form the shoulders b; 2nd. The movable jaw C, provided with the flanges D, and the opposite end provided with a screw thread; 3rd. The nut Bs, in combination with the jaws B, and C.

List of Patents issued up to 21st June, 1876, but not yet Officially published in the Patent Office Record.

No. 6089. L. R. Broadbent & C. F. Broadbent Baltimore, Md. U. S. A., "Process of Separating Woollen from Cotton Fibre," 17th May, 1876.
No. 6090. S. J. Anderson, Cazenovia, New-York, U. S. A., "Plaiting Machine," 17th May, 1876.
No. 6091 Jas McCormack, Waverly, Iowa, U. S. A., "Hair Restorer,"

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