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vol. I.—No. в.

SEPTEMBER, 1873.

Price in Canada \$1.50 per An. United States - \$2.00 "

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## INVENTIONS PATENTED.

No. 2472. Albert H. Mershon, Philadelphia, Penn., U. S., 17th June, 1873, for 5 years: "A Gas Heater." (Fourneau à gaz.)

Claim.—Ist. The gas heater constructed of a metallic body having a face in connection with perforations in and corrugations on said face, so as to form a beating surface on the front or toward the apartment; 20d. In combination with a gas heater mechanism for obtaining bot water and steam as set forth.

No. 2473. JOHN CHARTON, Philadelphia, Penn., U. S., 17th June, 1873, for 5 years: "Shaft Coupling." (Ajustage des axes.)

Claim.—1st. A covered coupling consisting of the clamps formed in the body A, and the portions D, E, in connection with tightening screws, wedges or botts; 2nd. The conical screws, wedges, or botts, and the conical openings, in connection with the clamps C, and body A; 3rd. A coupling adapted to receive and hold the ends of shafting of varying diameters; 4th. The clamps divided transversely so that one pair or set is independent of the other; 5th. The auxiliary clips or fastenings H; 6th. The body cored or separated to form the segment of a circle which is divided at a in connection with the transverse division at G.

No. 2474. MICHAEL A. LYNCH, Boston, Mass., U.S., 17th June, 1873, for 5 years: "Lamp Lighting Apparatus." (Appareil pour allumer les lampes.)

Claim.—The shaft q, tooth i, crank f, connecting link c, lever or discharger d, and tube c, such fuse tube and shaft being applied to a lamp burner as described; the fuse made as described, composed of a strip of pyroxyline, notched or serrated and provided with a fillet of match composition to ignite by friction of a lever or striker as explained.

No. 2475. EDWARD J. CRANGLE & JAMES P. CRANGLE, (Assignees of W. F. Burton), St. Stephen, N. B., 3rd July, 1873, for 10 years: "Self-feeding Lath Gang Machine." (Machine à latte, multiple et à alimentation continue.)

Claim.—1st The arrangement of the saw shaft B, elevated above the plane of the shafts of the lower feed rollers, whereby the saws cut below their shaft; 2nd. The combination and arrangement efthetriple feed rollers D, D, D, and receiving rollers Ik, Ik, for feeding and delivering the stuff to and from the saws; 3rd. The arrangement and combination of the friction wheels K. A. and friction roller J, for operating the shafts of the feed and receiving rollers; 4th. The application and arrangement of the lever, T. whereby the upper shafts of the feed and receiving rollers, and the shafts of the feed and receiving rollers can be simultaneously depressed as set forth.

No. 2476. EDWARD J. CRANGLE & JAMES P. CRANGLE, St. Stephen, N. B., (Assignees of W. F. Burton), 3rd July, 1873, for 10 years: "A Lath Machine." (Une machine à latte.)

Claim.—1st. The combination and arrangement of the pivot and sliding bearing of the feed roller shaft F, with the shaft E, and frame A, whereby the upper feed roller is a a vertical movement to and from the lower feed roller 1. and fraction roller L, whereby the cut of the saw is effected above the shaft C, 3rd The application to the feed shaft F, of a lever M, and weight P, arranged as set forth, for applying pressure to the feed roller H; 4th. The application and arrangement of the adjustable gauge J, in combination with the feed rollers H, I, and saws whereby the laths may be cut of any desired thickness.

No. 2477. JARVIS B. WHITE & HARRIS WILSON, Windsor, Ont., 3rd July, 1873, for 5 years: "Combination Lock." (Serrure à combinaison.)

Soconstructed that stationary hooks engage with one of the discs of the lock, which discs form part of the lock, in combination with the change plates.

Claim.—The combination of the stationary hooks II, with the disls D, knobs C, rods E, and discs F, G, the parts being arranged as described.

No. 2478. DANIEL S. MERRITT, Bay City, Mich., U.S., 3rd July, 1873, for 5 years: "Machine for Cutting Iron." (Machine à couper le fer.)

Relates to the construction of the upper and under bl des of the shears, both blades being sharpened, and when the machine is in operation both cutting, also to the combination of moveable joints and levers, imparting motion to said blades.

Claim.—1st. The shears constructed of two moveable parts A, and B, both having cutting edges operating towards each other and pivoted to the standards C, of the frame D 2nd The combination and arrangement of the levers G, II, and F, with the blades of shears A, and B, and standards E, of the frame D, for operating the parts A, and B, as set forth.

No. 2479. John H. Bridgman, St. Marys, Ont., 3rd July, 1873, for 5 years: "Hay Rake Spring." (Ressort de râteau à foin.)

Claim.—The peculiarly shaped and constructed springs composed of steel Fig. 3, a, b, b, c, d, and c, also Fig. 2, and placed in combination by bolts with the hay rake at c, c, Fig. 1.

No. 2480. EBENEZER A GOODES, Philadelphia, Penn., U. S., 3rd July, 1873, for 5 years: "Toy Sewing Machine." (Machine à coudre les jouets.)

Claim.—lst. The frame E, consisting of the part H, supporting to work plate, the part G, forming one bearing for the looper rod M, the part F, by which the frame is supported and secured, the part J, forming the other bearing for the looper rod, and one bearing of the driving shaft of the part J. forming the other bearing of the driving shaft and the part N. forming the other bearing of the driving shaft and the part N. forming the foot, the parts being continuous and adapted to operate in the manner described: 2nd. Therod M, with looper T, at one end, and the cam arm U at the other end in connection with the spring V, for operating the arm U, in one direction and the handle J, of the wheel U, for operating it in the other direction, 3rd. A sewing machine consisting of the frame E, F, G, J, J, work plate L, presser foot N, looper T, M, U, apring V, hand wheel q, rod O, the needle and needle bar R, con-

structed and operating as described; 4th. The case A, having a hinged top B, which supports the machine, and a lid C, whereby the runchine may be enclosed in the case, in the manner described.

No. 2481. WILLIAM DEPEW, Paris, Ont., 30th June, 1873, for 5 years: "Combined Strawcutter and Grain Grinder." (Hache-paille et mouture combinés.)

Claim.—1st. The combination of a straw-cutter and grain grinder on one frame and driven by one shaft, also in the fastening of the front plate and grinding plates C, and d, to the plate 8, by means of the lever g; 2nd. In turning the double pinion from lett to right on the main shaft C, and thus doing away with intermediate wheel between the spur wheel U, and the pinion T, also in the straight lever S. The placing of the spur wheel X, and V, on the outside of the frame A to enable the feed rollers I, I, to be brought close to the cutting knives. The fluted mouth piece G The fluted comb II, and the weight L, directon the hangers K, K, and the single swing N, underneath.

No. 2482. John J. Wigle & Andrew Wigle, Gosfield, Ont., 3rd July, 1873, for 5 years: "A Horse Hay Fork." (Une fourche à cheval.)

Consists in the combination and arrangement with the prongs of the fork, which are united by a circular bend, of a somi-circular lever pivoted to the prongs, the ends of the lever project and connect by pivot joints to the harpoons, by means of a rod so that when the lever is raised or depressed the harpoons will be operated simultaneously.

Claim.—The combination and arrangement of the semi-circular or bow lever E, and connecting rods G, with the prongs A, having a circular head C, and harpoons B.

No. 2483. Joseph Ludlam, Kingsville, Ont., 3rd July, 1873, for 5 years: "A Harpoon Fork." (Une fourche harpon.)

Relatesto a fork with two moveable points worked by a bale acting as a lever in raising or depressing the points.

Claim.—let The frame A, in combination with bale B, rods E, El, fulcrum axle C, axle D, and points F, F1; 2nd. The sheave F acting in combination with hole G, by means of a rope or cord fastened at G.

No. 2484. Benjamin P. King, Shelburne, N. S., 30th June, 1873, for 5 years: "Capstan and Windlass Gearings." (Engrenage des cabestans et guindeaux.)

Claim.—lst. The toothed rim A, made in segments and secured to the barrel of a windlass; 2nd. A windlass marked by a vertical screw and toothed rim, the combination of the twine cogwheel C, D, with the lever H; 3rd. The combination of the cog-wheels F, and G, with the capstan; 4th. The combination of the cog-wheels C, D, with the cog-wheels F, and G, for the purpose of giving more or less speed to a windlass.

No. 2485. Levi Dodge, Waterford, N. Y., U. S., 3rd July, 1873, for 15 years: "A Baling Press." Une presse d'emballage.)

Claim.—1st. A cylinder or case A, in which the bale is given shape at the time of commencement of its formation so constructed as to permit the bale when formed to be bound before its removal from the press in rollers B, or other feed and pressing devices arranged to progressively feed and compress successive portions of the hay or other material into the cylinder or case until the bale is built up and formed in and beneath it. In a sliding table or support C, upan which the bale during the process of its formation will rect, said table the feeding and compressing devices being arranged as stated so that the one may have a motion away from the other, in proportion as the bate is built up and compressed; 2nd. In combination with the cylinder A, or other case in which the bale at the commencement of its formation receives its shape and the devices by means of which successive portions of the material to be baled are progressively fed and compressed into said cylinder or case, of a sliding table C, or support for the bale arranged as described, and so as to offer a yielding resistance to the compressing devices and to move away from said devices as successive parts of the bale are formed and compressing devices and to move away from said devices is successive parts of the bale are formed and compressed into and beneath the cylinder or case; 3rd The combination and arrangement of the cylinder, the sliding table, the feeding and compressing devices with the surrounding frame, by which they are carried; 4th. A press for baling hay, straw, and other like materials, constructed and operated in the manner set forth.

No. 2486. Benjamin P. King, Shelburne, N. S., 30th June, 1873, for 5 years: "Hawser Pipe." (Plomb d'écubier.)

Claim.—1st. The square hawser pipe A, constructed and fitted to a ship as set forth; 2nd The combination of the hawser pipe A, fluted roller C, and chain stopper D, all in one piece.

No. 2487. Julius Melchers, Windsor, Ont., 30th June, 1873, for 5 years: "A Hitching Post." (Un arénoire.)

Claim.—1st. The peculiar opening or curve in the mouth (A), the hollow cast iron head (B), so curved that in a certain : ition, the chain cannot be withdrawn by the horse; 2nd. The cha. (G), and weight (I), in combination with head (B).

No. 2488. KATE C. BARTON, Philadelphia. Penn., U. S.. 3rd July, 1873, for 5 years: "A Sail Sewing Machine." (Machine à coudre les voiles.)

Consists in an arrangement of two or more needles and other necessary sewing parts with a device for folding or interlocking the edges of two pieces of tabric to be stitched in parallel lines, the whole operating to produce scame of great strength.

Claim.—Ist. The combination of the duplex or multiple arrangement of needles and stitching devices travelling on ways with the gataes B1, and B2; 2nd. The windless W, roller V, card U, and post X, in combination with a travelling sewing machine guided upon rails and operating as described.

No. 2489. CYRUS W. BALDWIN, Boston, Mass. U. S., 3rd July, 1873, for 5 years: "Hydraulic Elevator." (Un élévateur hydraulique.)

Claim—1st In combination with an elevator-carriage and main supply and surplus receiving tanks t, v, one or more cylinderand pistons connected with said tanks and carriage, and provided with valves W, X, for regulating ingress and egress of water, and mechanism whoreby said valves may be operated from or by the carriage at any height; 2nd. The combination of the cylinder v, and its piston, the valves W, and X, the crank 12, and drum it, the latter being actuated by hand k1, and the whole operating as explained.

No. 2490. HENRY MORAN, PATRICK MORAN & JACOB P. MEDAY, New York, U. S., 3rd July. 1873, for 5 years: "Adjustable Horse Shoe." (Ferà cheval mobile.)

Claim.—The perferated plates C, C, the guard D, loops E, L. lacing F, and frog protector G, in combination with the adjustable horse shoe B.

No. 2491. JAMES ANDERSON, Quebec, Que., 30th June, 1873, (re-issue of patent No. 1886): "Formation of Spans of Bridges." (Construction des empans des ponts.)

Relates to improvements on that class of bridges constructed on the principle known as the "Howe truss."

the principle known as the "Howe truss."

Claim.—1st. The top chords constructed as described with the clamps E, in combination with truss rods C; 2nd. The employment of iron or metallic straps B, in combination with truss rods C. constructed as described forming the bottom chord B; 3rd. The application of saddle pieces P, or equivalent bearings on the prism in combination with the prisms or cross girders; 4th. The end bearing blicks M; 5th. in the combination of top chord A, bottom chord B, clamps E, saddle pieces I, with other parts of framing of a "Howe Truss Bridge."

No. 2492. DANIEL M. LAMB, Strathroy, Ont. 30th June, 1873, (re-issue of Patent No. 2244). "Water-proof Gum." (Gomme hydrofuge.)

Claim.—1st The art of extracting a water-proof gum from plants of the asclipias or inflowed family or other plants possessing similar properties by subjecting the plants to fermentation and as pissating the resultant liquid by evaporation; 2nd A new article of manufacture in water-proof gum made from the inspissated junce of plants of the asclipius or milkweed family or of any analogous plants possessing like properties.

No. 2493. HENRY P. ADAMS, Ravenna, Ohio, U. S., 30th June, 1873, for 5 years: "Butter Package." (Empaquetage du beurre.)

Claim.—1st. The use of thin strips of cut wood scored partly through, bending, folding, and looking them around each other forming rectangular packages for cottaining butter; 2nd. In bosing or saturating the thin wood in brine for removing the sap and preparing them for use as butter packages; 3rd. The combination of the rectangular butter packages with the rectangular box d. for economy of space, and so constructed as to be hermetically scaled.

No. 2494. John P. Dale, Battle Creek, Mich. U.S., 30th June, 1873, for 5 years: "A Milksafe." (Un garde-lait.)

Rolates to that class of milk-safes which are provided with an internal rotatory rack for carrying the pans.

Claim—let. The rotary shaft provided with hars F, mortised through the same, and with cross bars G, halved into the bars F; 2nd. In combination with one of the shelves II, the circular ice pan f, provided with radial slot d; 3rd. The fall leaf shelf f, provided with prop C; 4th. The arrangement of the safe containing the stindard D, troughs E, E, rack bars F, bars G, shelves II, pan J, and fall leaf shelf f.

No. 2495. JOHN R. BLAKESLEE, Youngstown, Ohio, U. S., 3rd July, 1873, for 5 years: "A Nut Machine." (Machine à faire les noix.)

Nut Machine." (Machine à faire les noix.)

Claim.—1st. The stem di, and laterally projecting s.m. d. for holding and swaging the bar in combination with a die a, and a descending shear c. for cutting off the nuts; 2nd. The stom di, and laterally holding and swaging arm d, in combination with the shear c. and punch c. arranged in respect to each other as described; 3rd. The reciprocating die bed f, fi. constructed and operated as described. 4th. The reciprocating die bed f, fi. provided with a cutter a; in combination with a cutter m, punch l, for cutting off and piercing the nuts; 5th. The slide Or, forming one side of the die box which acts to hold the bar laterally and at the same time swage it, and operated by the cam go, 6th. The stationary block ii, and show In. in combination with the reciprocating die bed f, fi. and stom n. provided with a lateral arm ni, forming the top of the die box; 7th. The die box consisting of the stationary block O, slide O?, bridge block i, reciprocating die bed f, fi, lateral arm ni, of the stom n, and shear m; 8th. A plunger g, which yields as the onut is cut from the bar and resumes its normal position when the shear m; 1s not in contact with the bar of iron; 9th. A reciprocating die bed f, fi, provided with z slot in its bettom and a corresponding opening in the bed plate of the machine through which the nut or washer is discharged in the backward movement of the reciprocating die bed f, fi.

No. 2496. CHRISTOPHER WARDEN & JOSIAH B. PLUMB, Niagara, Ont., 3rd July, 1873, for 5 years: "Process of Converting Cast or Malleable Iron into Steel." (Procédé pour convertir la fonte ou le fer en acier.)

Claim.—1st The conversion of malleable iron or east iron after being annealed into steel, by the process of heating it to incandescence and allowing it to cool gradually as set forth.

No. 2497. GEORGE STACY & HENRY MUL-HOLLAND, Montreal, Que., 3rd July, 1873, for 5 years: "Chisel Pointed Nail Machinery." (Machine à clou à pointe de ciseau.)

Claim.—The novel combination of the punch E, and bed die F, with bevels E!, inclined side E, and bovel E!.

No. 2498. GEORGE P. CLAPP & GEORGE STACY, Montreal, Que., 3rd July, 1873, for 5 years: "A Fire-escape." (Un appareil de sauvetage.)

Claim.—1st. The novel combination of the plates a, frictions b, c, d, c, and f, in number more or less, and the spring classes or hooks g, and h; 2nd. The combination of the plates a, frictions b, c, d, c, and f, and hooks g, and h, with rope i: 3rd. The combination of the plates a, frictions b, c, d, c, and f, hooks g, and h, and rope i, with sling n, belt o, and rung p.

No. 2499. WILLIAM ROBINSON, Brooklyn, N.Y., U.S., 8th July, 1873, for 15 years. "Electric Railway Signals." (Signaux de chemin de fer électriques.)

Claim.—1st. The battery B, and a suitably arranged insense in combination with each other and with the rails of a section of railway track whereby when said section is bridged by the whoels and nale of a car, the electric oricuit is changed and the si, and operated through the demagnetization of the said magnet. Ind. Two or more signals actuating magnets or heliess C. T. and a battery B, in combination with a rail section or sections A, whereby the current is divided between the said magnets; 3rd. The combination of the signal actuating olectro-magnet C, the rail sections A, and the cut out or key Bi, whereby the action of the rails caused to operate the aforesaid signal actuating magnet; 4th The combination of the relay of which the electro-magnet C, forms a part, with the two distinctive local circuit connections; 5th. The switch bar made wholly or in part of non-conducting material whereby the switch rails are insulated from each other; 6th. The combination of the switch constructed and operating as described with the metallic contact plate As; 7th. The combination with the drawbridge and the circuit connecting of the battery B, of the fixtures A, and the projection A; 3th. The connections of a circuit wire to a rail forming part of the circuit, by means of the casting K, constructed and applied; 9th. The apparatus arranged for signaling at a crossing as shown in Fig. 10; 11th. The signal bell actuated by axial magnetism in the manner as shown in Fig. 13; 12th. The signal bell actuated by axial magnetism and rendered intermittent in its operation by means as shown in Fig. 1; 13th. The combination with an electro-magnet C, of the rock bar A1, capable of movement in a horizontal plane carrying the armature B, and actuating the axially moving vertical rod of the signal disc; 14th. The relay constituted by the magnets A, B, the armature C, and

spring F, in combination with each other and with the wires of a galvanic battery or batteries; 15th. The construction of signal and battery houses for electric railway signals.

No. 2500. LYMAN R. BLAKE, Brooklyn, N. Y., U. S., 8th July, 1873, for 5 years: "A Hydraulic Hose." (Un tuyau élastique.)

Claim.—In hydraulic hose manufactured from a strip of woven material the edges overlapping and united by stitches passing from the outside to the inside or vice-versa.

No. 2501. NATHAN A. BEACH, TIMOTHY B. RIDER & HAMILTON M. RIDER, Stanstead, Que., 8th July, 1873, for 5 years: "Machine for Measuring and Rolling Cloth." (Machine à mesurer et rouler les tissus.

Claim.--lst. The combination of the roller B. crank journals C. srins C. lever D. pawls F. F. and wheel G. with the frame A. 2nd. The friction r-lier J. arranged and operating as set forth in combination with the roller B. and frame A; 3rd The standard N. adjustable as set forth with its clamp P. and plate O. arranged and operating as set forth; 4th. In providing the chucks M. M., with V grooves and pins U. for receiving and holding the cloth board and check plates R; 5th In providing the check plates R, with a collar S, and thumb scrow T, for securing it adjustably to its shaft.

No. 2502. EDWIN D SMITH, Sutton, Que., 8th July, 1873, for 5 years: "Self-acting Car-coupling." (Attelage de voitures de chemins de fer automate.)

Claim.—1st The combination with the draw head A, of the hinged flap D, exterding across the same internally and journalled at its sides to receive the draw of the coupling bar M; 2nd. In combination with the draw head A, and tlat D, the arrangement of the lever H, chain I, and pultey J, whereby uncoupling of the draw bar can be effected from the sides of the car: 3rd In combination with such draw head and flap the arrangement and employment of the spiral spring G, and guide rod F, for preventing untoward uncoupling; 4th. In providing the draw head internally at its sides with springs L, for compressing the end of the coupling bar M, and allowing it to have a lateral movement as set forth.

No. 2503. John J. Wright, Toronto, Ont., 8th July, 1873, for 5 years: "Newspaper Addressing Machine." (Machine à adresser les journaux.)

The mechanism propels the galley, holding type addresses, in such manner that the type comes under the lever at the proper time for stamping the address.

Claim.-1st. The combination of lever box, spring, ratchet lever and ratchet; 2nd. The combination of toothed galloy and type in such a manner as to be acted upon by the upward motion of lever B.

No. 2504. Francis Korwan, Kirnhalden, Baden, Germany, 8th July, 1873, for 5 years: "Selflighting Gas Apparatus." (Appareil automate pour allumer le gaz.)

POUR SHITTIME IE GILL.]

Claim.--Ist. One or more cocks, valves or equivalent, actuated by a ficable or moveable diaphragm l, operated by the pressure of the illuminating gas supply, which can be regula ed by waights J, or their equivalents for the purpose of igniting and regulating eneor more gas jets, 2nd. The combination with the tube L, of the auxiliary burner of the screw K, for regulating the influx, and the screw K, for regulating the fifth of the gas; 3rd In combination with the described gas lighting apparatus the screw cook c, for regulating the flame. 4th. In combination with the diaphragm, l, actuating the stop cock of a ga: lighting apparatus the pivot bearings o, p, for overcoming the friction on the plug.

No. 2505. Jesse W. Hatch, Rochester, N. Y., U.S., 8th July, 1873, for 5 years: "Heel Stiffening for Boots and Shoes." (Contrefort de chaussure.)

Consists in a hoel stiffening produced by crimping in contradistinction to one produced by molding, stamping in dies or otherwiso.

Claim. -- A new article of manufacture in a crimped heel stiffening in which the seat B. is formed with a smooth surface, and the wrinkles of the leather are carried down to the inner margin without notching the leather.

No. 2506. DANIEL WOODBURY, Rochester, N. Y., U. S., 8th July, 1873, for 5 years: "A Horse-power." (Manège pour un cheval.)

Claim. -- 1st. The combination of a horse-power with a sled when connected by journals a, a, which allow a turning motion, and when said sled has a removeable front bar r, to allow the raising

and lowering of the machine and the levelling frame; 2nd. In combination with the levelling frame I, the rocker plate K, attached on the under side and the lugs l, l, for the attachment of the reach; 3rd. The independent reach K, when constructed with the levelling frame or as a stay beneath the machine; 4th. In combination with the main frame C, the standard O, when connected with the segment block t, by passing through a socket in the same and secured by the guide plate and pin V; 5th. In combination with the main frame C, the rigid shore N, when passing through a socket of the segment block t, and made adjustable in the manner specified; 6th. The boxes P2, P2, made convex or rounding on the four sides and provided with the cylindrical projections v2, v2, for fitting the sockets S2, S2, of the pinions; 7th In constructing the rear box p2, in two parts v2, v2, one of metal and the other of wood; 8th. In combination with the box O2, which sustains the roller U2, the base bar W2, and clamp X2, 9th. In combination with the bull-wheel D, the guide block or blocks T, when made adjustable by the wedge h2, or equivalent as described; 10th. The brake U, bearing upon the rim of the spure part F, when arranged to receive the foot of the operator; 11th. The angular or rounded end 62, of the sweep arm S, fitting in the space between the block M, and rim of the bull-wheel when said end is provided with the look c2, and said block with the eye d2; 12th. The staking bars P, Q, connected at one ond with the bearings W, W, and at the other ond with each other by the eye and elbow v; 13th. In combination with the bull wheel D, of a horse power, the windlass V, and its spur gear n2, when the same has an end or vertical movement to throw it into or out of gear; 14th. In combination with the bull wheel D, the dend plates f2, f2, or equivalent pinions on a rack frame; 15th. The hanger X, and brace O2, when said banger incloses the bottom of spur gear F, and allows the vertical adjustment of box q2, which holds punyon G

No. 2507. ()NESIME THIBAUDEAU, Montreal, Que., 8th July, 1873, for 5 years: "Machine for Sweeping and Scraping Streets." (Machine à balayer et gratter les rues.)

Chine à balayer et gratter les rues.)

(l'aim --10. Une machine à gratter et à enlover la boue des rues et à les balayer, la combinaison des gratteirs E, tel que décrit, 20. La combinaison des ressorts F, passant dans la coulisse verticale de la tête des gratteirs E; 30. La combinaison dos ressorts d'acier G, pour maintenir les gratteirs E, à leur place; 40. La combinaison manivelle U, avec l'axe vertical Y, et son pignon pour communique rle mouvement du tambour T; 50. La combinaison de la clofente allée N, et son bouton à écrou Xi, avec la platine hexagone de l'axe vertical Y, pour retenir le rouleau balayeur P, lorsqu'il est reloré et l'empécher de balayer, 60. La combinaison du tambour T, et des chaînes K', pour relever le rouleau balayeur P; 70. La combinaison des guides N, des gratteirs E, et les languettes O, pour lever et abaisser les gratteirs E; 80. La combinaison des trois rouleaux H, et de lours chaînes pour relever un des jeux des gratteirs E, à volonté, 90. La combinaison d'un quatrieme rouleau J, et ses chaînes pour relever ou abaisser les trois joux de gratteirs E, con même temps, l'io. La combinaison des roues à gouttière Z, et Z', et la chaîne sans fin à maille carree di, pour communiquer le mouvement au rouleau balayeur P, 110. La combinaison de la planchette C, pour empécher la poussière des s'lever et de se répandre de tous cotés; 12. La combinaison des gratteirs E, pour gratter et enlever la boue des rues et le rouleau balayeur P, pour les balayeur P, pour les balayeur P, au combinaison des gratteirs E, pour gratter et enlever la boue des rues et le rouleau balayeur P, pour les balayeur P, la combinaison de s'dever et des combinaison des un bandes de fer Ni, pour baisser le brancard de dérrière B, à mesure que s'usent les lames ou baleines métalleques du rouleau balayeur P; 140. L'ensemble de la machine et la combinaison de toutes ses parties.

No. 2508. John Cowan, Dromore, Kenmare, Ireland, 8th July, 1873, for 5 years: "Apparatus for Heating Green Houses, &c." (Appareil de chauffage des serres, &c.)

('laim.-In the combination of a lime burning kiln A, with a hot water boiler B, and circulating pipes C.

No. 2509. JOHN WALMSLEY, Elmira, Ont., 8th July, 1873, for 5 years: "A Harvester Reel." (Un râteau de moissonneuse.)

Claim.—1st The hinges h. h. joining the radial arms A, A, to the longitudinal bars B. B. 2nd A reel having the radial arms A. A, attached to the longitudinal bars B, B, by flexible joints or hinges h, h, or having the radial arms A, A, constructed with flexible joints or hinges at or near the longitudinal bars B, B. 3rd. The pins D, D, or their equivalents fixed to the bars B, B, for causing the bars B, B, to rotate or turn on the hinges h, h, from the withdrawing position r, to the working position R; 4th. The latches E, E, or their equivalents arranged to work automatically in engaging with the catches c, c, for their equivalents arranged to work automatically in engaging with the catches c, c, or their equivalents except a fet The cartered arm G, or its equivalent from actuating the bars B, B. and latches E, E, automatically; 7th. The arrangement and combination with a roel having its longitudinal bars B, B. attached to its radial arms A, A, by flexible joints or hinges of the pins D, D, latches E, E, catches c, c, and arm G, or their equivalents for automatically working the bars B, B. 5th The roel carrior or standard H, when attached to or orected on the extreme front of the divider piece I, of the platform, 9th. The arrangement and combination with an adjustable roel of the intermediate nulley P, pivoted in line with the pivot of the reel carrier F. to admit of adjusting the height of the reel, without affecting the tension of the belt or belts transmitting rotation to the reel, each substantially as specified.

No. 2510. ELAM F. AUSTIN, Rochester, N. Y., U. S., 8th July, 1873, for b years: "Velvet and Plush Mats and Robes." (Robes de voltures et nattes en velour et en peluche.)

Claim.—As an improved article of manufacture in a mac or robe having a triuming of long wooled skin B, combined with a central portion A, of plush velvet, cloth or carpet as set forth.

No. 2511. Lorenzo P. Whiting, Poughkeepsie, N. Y., U. S., 8th July, 1873, for 10 years: "Adjustable Lathe Dog." (Mandrin de tour mobile.)

(?aim..-An adjustable lathe dog consisting of the stationary plate A, the scroll plate E, centre plate II, jaws B, B, adjusting scrows K, K, and nuts L, L, arranged substantially as and for the purpose described.

No. 2512. ALMON H. CALKINS, Chesterton, Ind. U.S., 8th July, 1873, for 5 years: "A Washing Machine." (Une machine à laver.)

Claim.-1st. A wasling machine provided with yielding wash ing-rollers the combination and arrangement of the metallic blocks II. It, and the metallic pieces I, I; 2nd. A washing machine provided with yielding rollers the pins L, L, provided with the pins a, a, and arranged in the spiral part of the springs K, K, operating in connection with the yielding rollers; 3rd. A washing inachine consisting in part of a combination and arrangement of rollers substantially, as specified, the pendant bar O, arranged in the manner described; 4th. A rotary washing machine, the grooved base-board C, in combination with the removeable extension block Q, and the supporting block P1.

No. 2513. HANNON W. CORNELL, Oswego, N. Y., U. S., 8th July, 1873, for 5 years: "A Corn Sheller." (Egrenoir à blé-d'Inde.)

Claim.—lst. The shelling wheel J, having curved shelling surfaceon both sides extending inward from the periphery toward the
centre fora certain distance as shown and provided with teeth >
S, of equal length, set in curved rows around the entire curved
surfaces on both sides; 2nd. The adjustable double throat B, provided with foed passages a, a, angular bar b, with ears i, 1, and
the slotted flanges d, d; 3rd. In combination with the jaw C, arm
G, and spring b, the adjustable slide h, to which the spring is attached for regulating the tension thereof, and set screw N. for ad
justing the jaw; 4th. The combination of the feed wheels D. D,
jaws C. C, and convex shelling wheel j, all constructed and arranged as described, and operated by the double cog-wheel K,
pinion T, and cog-wheel M.

No. 2514. John W. Close, St. Thomas, Ont., 8th July, 1873, for 5 years: "A Railway Rail Chair." (Un coussinet de rail de chemin de fer.)

Claim.—1st. A frog chair A, constructed with or having flanges B, turning over up and out side the wing rails D, to prevent them from spreading when the chair is secured to the ties; 2nd. The bifurcated plate E, in combination with the chair A, and bolt if, for bolding down the wing rails and for securing the frog I, fixelly as set forth; 3rd. The guard rails braces J, in combination with the chair A, and guard rail K.

No. 2515. George B. Snow, Buffalo, N. Y., U. S., 8th July, 1873, for 5 years: "Steam Apparatus for Ringing Locomotive Bells." (Appareil à vapeur pour sonner les cloches de locomotives.)

Constructed in such a manner as to provent any apparent leak rage either of water or steam, without resorting to the use of the stuffing boxes and also to effect the admission and release of the steam directly by the motion of the piston without the use of any intermediate parts between the piston and valve.

Claim --The combination of the cylinder A, piston G, piston rod D, slotted rod C, and crank B, when constructed and operated in the manner and for the purpose described.

No. 2516. EDWIN S. FIELD, Hartford, Ct., U. S., 8th July, 1873, for 5 years: "A Spring Bed." (Un lit à ressorts.)

Claim.--lst. A wire netting composed of the V, shaped links hooked together; 2nd. The peculiarly shaped link  $\rho$ , for forming a straight edge to such a netting; 3rd. The corner sockets b, provided with the adjusting screws b, in combination with the side rails C.

No. 2517. Charles F. Jenkins & Alfred B. JENKINS, Boston, Mass., U.S., 8th July, 1873, for 5 years: "Steam Packing." (Garniture de machine à vapeur.)

Claim --ist A crude, burnt, refractory rubber compound for valves, gasket, and the like carrying incorporated with it sixty per cont, of retractory mineral matter; 2nd. The said compound less highly vulcanized as a material for the valves of oil pumps.

No. 2518. DAMON WRIGHT, Kingsville, Ont., 8th July, 1873, for 5 years: "A Reefing Machine." (Une machine à riser.)

The object of the invention is to shorten or reef the sail by means of the winding up or reeling of the ropes round revolving shafts.

shafts.

Claim.—1st. The combination of the shaft B, B, actuated by becelled pinion D. and bevelled pinion G, shaft E, handle H, pawl I. kcoper J, and ropes N. N. N. N. and eyelets o. o. o. o. o. and shaft Bi. Bi. actuated by bovelled pinion Di, and bevelled pinion Gi, shaft Ei, handle Hi, pawl I keeper Ji, and ropes P, P, P. P. and eyelets o., o., o., o.; 2 ad. The combination of a single shaft B. B, revolved by means of searing or without gearing by a handle merely and ropes N. N. N. N. and eyelets o., o., o. o.; 3rd. The combination of any number of shafts B, B, fixed on the boom of a sail in the manner described or in any equivalent manner and ropes N. N. N. N. working through eyelets o., o. o. o., fitted with pulleys or without; 4th. The shield or cover K. in combination with shafts B, B, Bi, Bi, pinions D, D, pinions G, Gi, shafts E, E, handle H, Hi, pawls I. II, and keepers J. Ji, working together and with either of the shafts and its gearing separately and with any number of shafts with their gearing working together.

No. 2519. HENNAN BALDWIN, New Haven, Ct., U.S., 8th July, 1873, for 10 years: "A Fodder Cutter." (Un coupe-paille.)

So constructed that the upper or moveable feed roller may be adde to move up and down squarely whether the material operated upon be thicker under one end of said roller or not and which may be readily adjusted to cut the feed longer or shorter as de-

Claim.—let. The hook or eye bars W, and frame X, in combination with the upper feed roller P, and the frame A, of a fodder cutter; 2nd The combination of the adjustable spring Y, with the guide frame X, hook or eye bars W, upper feed roller P, and frame A; 3rd. The combination of the detachable gear wheels R, one or both an adjustable pournal S, with the gear wheel N, attached to the journal of the knife-shaft J, the gear wheel Q, attached to the journal of the upper feed roller P, and the circular slotted forward end of the lever U, piva id to the knife shaft J, and carrying the journal of the upper feed roller P.

No. 2520. Petrus Hervier. (of Paris, France), Quebec, Que., 8th July, 1873 for 5 years: "A Flat Tile with Treble Lapping Ribs." (Une tuile plate à nervures à triple recouvrement.)

Claim.—Une tuile plate ayant des norvures d. dt, d2, d3, d4, pour lui donner plus de force, et se recouvrant trois fois au coté et avec des canaux d'écoulement c, ct, clt, pour être plus étanche, dans la manière de la fixer au moyon de denis f, f, et de fil de

lo. 2521. JAMES F. CASS, L'Orignal, Ont., 8th July, 1873, for 5 years: "Ventilating and Cooling Milk Can." (Boite à lait à ventilateurréfrigérateur.)

Claim.—1st The attachment to a milk can cover of two or more tubes for the free ingress and egress of air; 2nd. The attachment to the upper side of a milk can cover, of one or more open tubes having its sides or superficies inclining inward and upward, or in such other manner; 3rd. The attachment to the upper side of a milk can cover of one or more open tubes, having the superficies of its upper erd inclining inward and downward, or in such other manner; 4th. The combination and attachment to the underside of a milk can cover of two or more tubes having their lower ends closed and passing downwards into the body of the milk. closed and passing downwards into the body of the milk

No. 2522. Joseph N. Smith, Jersey City, N. J. U.S., 24th July, 1873, for 5 years: "A Brick Press." (Une presse à brique.)

Relates exclusively to machines for re-pressing bricks after they have been moulded and partially dried or seasoned and is designed to produce bricks somewhat similar to those known as the "Philadelphia pressed or front brick."

"Philadelphia pressed or front brick."

Claim.—lst. The spring E. arranged and combined with the strrup pe's, and gate c's asshown for supporting and lifting it; 2nd. The annular ring f, combined with the bed piece c, and wedge wheel A, 3rd. The adjustable wedges h, h, in combination with the wedge wheel A, and lower die post T; 4th. The flangular portions hin, hill, kill, and cll, of wedge wheel and wedges in combination with spanning rollers u, ul, for actuating the table ki, in combination with the wedge wheel A; 5th. The stud xr. attached to the wedge wheel A, combined with the rams Q, and Q1, standard bar R, standard R, and slotted carrier bar M; 6th. The sectional die

No. 2523. Samuel Horton, Peabody, Mass., U. S., 24th July, 1873, for 5 years: "Gas Purifyer and Regulator." (Purificateur et régulateur de gaz).

The object of the invention is to relieve gases, more particularly the ordinary illuminating hydrogon gas of their impurities and of their vaporised watery and other liquid elements, thereby secur-ing greater brilliancy and steadiness in the flame.

Claim.—1st. The use of sponge or of other absorbent unterials comined in a chamber to which the gas can enter and from which it can escape: 2nd. The combination with the above claim, a chamber for the reception of the gas, after its passage through the absorbent material; 3rd. The chamber A. in two parts B, and C, supplementary chamber G, and absorbent material I, all constructed accepted and expanded translates as described. structed, combined and arranged together as described

No. 2524. ORVILLE K WOOD, Westchazy, N. Y., U.S., 24th July, 1873, for 5 years: "Machine for cleaning, separating and grading grains, &c." (Machine à nettoyer, séparer et assortir les grains, &c.)

(Vaim.—1st. The combination of the smooth and cog-rollers a. a. and c. in combination with plat X. rollers a. a., and c.; 2nd Tho dowels B, B, in combination with the feeder I, and moveable plate a, o.; 3rd. The shoe D. D: 4th. The roll v. the guides g, q. and R, R, the plates S. S. and T. T; 5th. The blank board f. f: 6th. The lock pins h h: 7th. The method of continuing the wind blast; 8th. The flutted irons x, x, and w, w, and the cog-roller B; 9th. The fanning mill or separator constructed, combined and arranged as described.

No. 2525. ERNEST J. KNOWLTON, Ann Arbor, Mich., U. S., 24th July, 1873, for 5 years: "A Portable bath." (The baignoire portative.)

Mich., U. S., 24th Mily, 1873, 107 5 years: "A Portable bath." (The baignoire portative.)

Clam.—1st. A bath of pliable material, pendant from a rigid flat frame around the top edge only; 2nd. A bath of pliable material, pendant from a frame with that portion of the sack for the chest or shoulders touching the floor, or a solid base, and the limb portion of the sack slightly inclined upward, 3rd. A pendant bath of pliable material with less depth of sack near one end than near the other. Fin the limb portion thereof than in the chest portion thereof, thereby reducing the carry and economizing fluid, 4th A bath of pliable material pendant from a flat frame. with projections B, for resting on or for attaching to chairs or other temporary supports: 5th. The division of the cavity of a pliable bath by a single contraction of the sack or pliable material thereof, 6th. A bath of pliable material pendant from a frame as described, or from any common mechanical structure, the parts of which are relatively so arranged that by simply drawing a cord around the same, or clevating the sack near the middle thereof, two different baths may be formed, varying in average width: 7th. The arrangement of cords and means for their adjustable attachment by which partitions addadjustments may be obtained, in a pendant pliable bath, 3th. A pendant pliable bath in an inclined position; 9th. The practical combination of a pendant pliable on the with the common house chair informing specific adaptations as for a full, a hip, or a sponge bath 10th; A bath of pliable material pendant from a frame formed or sprung into shape as a hoop. 11th. A spout or apron for the discharge of fluids, projecting directly from, or forming a part of the siffening support of a pliable bath, from, an adaptation for one specule design to that of another, as from a full bath to a partial bath. or from a foot to a hip bath by temporarily contracting or collarsing a part of the pliable material thereof, 1sth. A bath of pliable material thereof, 1sth. A bath of pl

No. 2526. Jacob Grobb, Clinton, Ont., 24th July, 1873, for 5 years: "Gate Attachment." (Disposition de barrière.)

The gate can be opened and shut by a person driving without his

The gate can be opened and shut by a person driving without his alighting from the carriage. Claim.—The combination of the bars b,  $b_1$ , rod c, slides or spring bolt d, wire or chain e, pulleys, h, j, k,  $h_1$ ,  $j_1$ ,  $k_1$ , suspended from the posts g,  $g_1$ , together with the rope or chain, connected with the bars b,  $b_1$ , passing through the pulleys h, j, k, and  $k^1$ ,  $j^1$ ,  $h_1$ , the whole being used in the manner described.

No. 2527. ELISHA L. MILLS & CHARLES H. WALTERS, (Assignees of John W. McGlashan,) Montreal, Que., 24th July, 1873, for 5 years: "A Folding-down Stake for Railway Platform Cars." (Une ridelle pliante pour les voitures plates de chemins de fer.)

For the purpose of causing the cars to lock automatically when placed in an upright position, also to be held by their own gravity horizontally.

Claim.—lst. The bracket h, and pawl i, so attached to the car above the centre d, that the stake b, shall abut against it either when raised vertically or when folded down; 2nd. The bolt i, attaching the pawl g, and bracket h, to the frame a, in combination with the pawl bed f, and holding the stake vertically: 3rd. The pawl bed f, in combination with the stake b; 4th. The combination of the frame a, stake b, bolt d, pawl f, bed f, pawl g, bracket h, bolt i, and flange k, all working together as described.

No. 2528. THOMAS SIMMONS, ALBERT CLEMEN & CHARLES T. CLEMEN, Halifax, N. S., 24th July, 1873, for 5 years: "A Gas Burner." (Un bec à gaz.)

Claim.—1st. The burner A1, having a chamber or retort D, above the outlets F, and provided with projecting rings notched to form air ducts H, I, and air inductor G, in combination with the superheater J, and regulating needle valve operating substantially as and for the purpose set forth; 2nd. The application to a burner A1, constructed as set forth of an air inductor G, as specified.

No. 2529. James McGill, (Assignee of Charles Lehmann,) Montreal, Que., 24th July, 1873, for 5 years: "A Soap Crutcher." (Un bouloir à savon.)

Claim.—A machine for stirring soap, and other materials, the arrangement of two sets of stirring blades D. E. alternating with with each other, and set to incline in opposite directions, each of said blades being provided with holes  $\alpha$ , b, in combination with a central shaft B, to impart motion to one or both sets of stirring blades, and with squeezing inclines secured to a bridge c, extending across the top of the tub which incloses the entire mechanism.

No. 2530. WILLIAM H. FORAN, Boston, Mass., U. S., 24th July, 1873, for 5 years: "A Fire-proof Paint." (Une peinture incombustible.)

Claim.—A composition composed of coal-tar linseed oil, dead oil gum tragacanth and soda ash, the whole prepared as stated.

No. 2531. CLIFTON D. HUNTER & ERASTUS S. Wood, Marlborough, Mass., U. S., 24th July, 1873, for 5 years: "An Inhaler." (Un inhalateur.)

Claim.—1st. The valve d, in combination with the exhaust tube C, inlet tube b, stopper B, and main receptacle A, operating in the manner described; 2nd. The stopper B, provided with a cavity or recess for the reception of the said vessel c; 3rd. The stopper B, provided with a groove h, for the reception of the upper portion l0, of the inlet tube b, when forced down, the inlet tube being so constructed and arranged that it may close the exhaust passage and prevent the leakage or escape of the medicated liquid from the main receptacle, when tipped or inverted as described; 4th. The band i, in combination with the acid embedded in the stopper B, and the inlet tube b; 5th. The inlet tube b, provided with a valve m; 6th. In combination with the main receptacle stopper, exhaust tube and inlet tube of an inhaler, a valve so constructed and applied as to open outward on blowing into the exhaust tube, whereby the air is allowed to escape, and is prevented from exerting a pressure upon the liquid in the main receptacle.

No. 2532. WILLIAM GRIFFITH, Toronto, Ont., 24th July, 1873, for 5 years: "A Lock." (Une serrure.)

Claim.—1st. The combination of the bolt E, and bolt lever D, the latter fitting into circular recesses in the former as described; 2nd. The combination of the pawl F, and pin f, working in a slot in the sliding block G; 3rd. The combination of the square axle C, hubs H, plates A, and a.

No. 2533. John Boyd, Antigonish, N. S., 24th July, 1873, for 5 years: "A Steam Cooking Stove." (Un poêle de cuisine à vapeur.)

Claim.—lst. The combination of the stand A, with the moveable fire basket D: 2nd. The combination of the oil reservoir f, and water reservoir e, arranged so that water is admitted within the oil reservoir f, as required to keep the oil well up against its top in order to prevent the generation of gas; 3nd. The case B, over G, false bottom b, stand A, and lamp E. arranged in combination with each other as specified; 4th. The combination of one or more drawers I, and J, hot reservoir; casing C, and B, false bottom b, arranged in combination with the stand A, and lamp E; 5th. The celd air pipe M, in combination with the condensing chamber formed between the top K, and cover L.

No. 2534. WARREN R. EVANS, Lynn, Mass., U. S., 24th July, 1873, for 5 years: "A Repeating Gun." (Un fusil à répétition.)

Consists in a magazine to contain the cartridges and to present them to the breech of the fire-arm; also in a lock to operate the magazine, load the piece, remove the case of the exploded cartridge, and discharge the cartridge newly supplied to the barrel.

Ctrim.—1st. The combination of the fluted shaft c, which has one or more grooves or flutings and the fixed spiral thread or wire b; 2nd. The combination of the lever (Fig. 5) and its point t, with the rotating fluted shaft; 3rd. The method of operating the magazine by the lever (Fig. 5), and the breech block (Fig. 4); 4th. The hammer (Fig. 3) made and operating as described in connection with the slotted breech block (Figs. 4 and 6) and the main spring; 5th. The breech block (Figs. 4 and 6) having the part J, and the two walls with a space between the same and the slot q; 6th. The combination of the retractor W. pivoted to one side of the breech block and the spring X; 7th. The combination of the trigger O, having the shoulder n, to operate in combination with the shoulder n, of the hammer (Fig. 3); 8th. The combination of the hammer (Fig. 3); with the breech block and arranged within the same as described and trigger O; 9th. The breech block (Fig. 4) when constructed with the slot y, as set forth.

No. 2535. LYMAN LITCHFIELD, Gouverneur, N. Y., U. S., 24th July, 1873, for 5 years: "A Horse Rake." (Un râteau à cheval.)

Claim.—1st. The combination of the lever A, wheel or quadrant B, pitmans C, D, and arm F, with the bar G, and the rake frame for lifting the teeth simultaneously: 2nd. In providing the wheel or quadrant B. with a foot-rest E: 3nd. In constructing the sockets H, with hooked arms J, and the application and arrangement of the bar G: 4th In forming the teeth sockets H, with diagonal intersecting lugs, for securing the teeth by the grip of the metal cast thereon, at the two points or places as described.

No. 2536. GEDEON BASTIEN & PIERRE VALOIS, Ste. Scholastique, Que., 24th July, 1873, for 5 years: "A Washing Machine." (Une machine à laver.)

Claim.—10. Une blanchisseuse mécanique, les deux blocs cannelés Q; 20. Les encoches S, des bras P, qui permettent de retirer ou repousser les blocs cannelés Q. à la demande du linge à laver; 30. La combinaison de la manivelle D, des brelles K, et des balanciers M, pour donner le mouvement de va-et-vient aux blocs cannelés Q; 40. La combinaison des roues d'air J, J, pour dininuer la friction du mécanisme; 50. La combinaison de la blanchisseuse mécanique et de son mécanisme tel que décrit.

No. 2537. PIERRE VALOIS & GEDEON BASTIEN, Ste. Scholastique, Que., 24th July, 1873, for 5 years: "A Washing Machine." (Une machine à layer.)

Claim.—Une blanchisseuse mécanique, la combinaison d'un poids de gravitation N<sup>1</sup>, fixé à la roue d'air N, pour aider à son mouvement de rotation et celui de la machine, tel que décrit.

No. 2538. John Hunt, Glenwilliams, Ont., 24th July, 1873, for 5 years: "An Easy Lounge." (Une chaise longue.)

Claim.—The adjustable top with the combination of the sections B, C, D, and E, by means of the hinges F, F, F, the brace G, and the notches H, H, H.

No. 2539. GEORGE H. CHINNOCK, Brooklyn, N. Y, U. S., 24th July, 1873, for 15 years: "A Sheet Metal Can." (Un bidon en métal.)

Relates to that class of hermetically sealed cans used for holding paint, preserved fruits, condensed milk and other substances.

Claim.—let. The strip C, soldered to the lower edge of the flanch F, and to the upper edge of the can and furnished with the extension A; 2nd. The arrangement with reference to the flanch, f, of the cover B, and the circumferential edge of the can of the groove et, and the rabbit c, provided respectively upon the said flanch and edge; 3rd. The circumferential groove a, provided at the edge of the can, and in relation to the flanch of the cover and the over-

laying soldered strip c; 4th. The loop p, of the strip c, fastened at its overlapping extremity and arranged with reference to the cover B, and body A; 5th. The loop p, tapered as described, in combination with the strip c, arranged with reference to the cover B, and body A; 5th. The combination with the body A, of the right transverse brace d, the said brace arranged nearly or quitte in line with the points of attachment of the ball B, whereby inward strain upon the body A, when suspended by or from the bale is counteracted; 7th. The combination with a tubular transverse brace, arranged in the upper part of the body A, of the inwardly turned strained in the upper part of the body A, of the inwardly turned closed by the soldered cap or disc g; 9th. The combination with the cover or the body, and when the can is filled closed by the soldered cap or disc g; 9th. The combination with the body A, of the pocket E.

On the soldered strip c; 4th. The close to the cover of the body A, of the strip c, fastened at the cover C, attached to the body A, of the pocket E.

No. 2544. ORIN WEBSTER, Compton, Que., 24th July, 1873, for 5 years: "Cow Milker and Strainer." (Appareil pour traire et couler le luit.)

Strainer." (Appareil pour traire et couler le luit.)

Consists of a number of tubes running into a mam pipe to which a strainer is attached. whoreby a number of cows can be milked together and the milk strained at the same time.

Chain. The plue A, strainer B, hinge h, and ring C, as described.

No. 2545. Effort Coapman, Rochester, N. Y.,

o. 2540 HENRI THOMAS, Brooklyn, N. Y., U. S., 24th July, 1873, for 5 years: "A Carving Machine." (Une machine à sculpter.)

Claim.—Ist. The combination of the sliding work and pattern carrying centers and the vertically adjustable at a horizontally swinging tool carrying arms arranged and operating as specified; and The center holder plates D, F, radices bars it, links J, toggle jointed bars K, sliding but L, and crew M, combined and arranged as specified; 3rd. The arms O, P, block Q, bar A, slide W, bars V, and link O, combined and arranged as specified; 4th. The sliding block Q, standard Y, arms O, P, and their actuating devices, and the adjusting screw Z, and crank shaft Z', combined with the work and pattern centers as specified.

WILLIAM N. WHITELEY, Springfield, No. 2541. Ohio, U. S., 24th July, 1873, for 15 years: "A Harvester." (Une moissonneuse.

Harvester.' (Une moissonmense.

(Vaim—lst A rear cut hinsed bar machine, a culting apparatus the outer end of which is supported by a jointed carrying wheel, having its bearing upon the ground in rear of said outling apparatus and the inner end of which is supported by a floxible connection with the main frame, in combination with the drag bar the front end of which may be raised or lowered by means of a lever, while the machine is in motion: 2nd A cylindrical drag bar S, the rear of which is projected through ordices in the upturned ends of the chos T, and its front end extended through the slot S, and controlled by means of itling lever; 3rd The rock shaft 12, one end of which is connected to the front end of the drag bar S, and its opposite end controlled by means of the hand lever 16; 4th. In combination with the rock shaft 12, and the stationary rock 13, and the locking dog 17; 5th The slotted bracket 8, constructed no shown and connected to the frame A, by means of the arms 9; 6th. The slide bar 1, of the rectangular main frame, projected forward and the tongue o, attached thereto in combination with the brace d, as described; 7th. The combination of the rectangular main frame A, and the slotted bracket 8, for the pupose of connecting and holding the front end of the drag bar S; 3th. The shifting lever 22, constructed as described and combined with the stationary cain 24; 9th. In combination with the plate 2, hinged to the outer shoe Z, and provided with a series of stop holes or notches 4 and wheel arm U, and the latch bolt 5; 10th. The grain wheel arm U constructed with the stationary stad X, projecting therefrom and fitted to the socket Y, in the plate 2, to impart great strength to the join the between said arm and plate; 11th. The hollow spinzle P, to form a bearing for the grain wheel, in combination with the bolt V, which passed axially through said sleeve and clamps it firmly to the grain wheel arm; 12th. The chain wheel your of connection with its ratchet; 13th. The chain wheel 3; whereby motion

whereby motion is transmitted to the rake connected with the drive wheel and held in position thereon by means of a noteited flange 30, htting over the arms of sand drive wheel; lith, in combration with the chain wheel secured to the drive wheel, the chain picker hung lower by pon the axie of the said drive wheel, if the chain picker hung lower you have a said start of the said drive wheel, forth. The sheld or guard 28, upon the pitman box 27, to prevent the winding of grass around the wrist pur; loth. The sent spring 38, constructed with the inclined and vertical plates joined in the manner and form described; 17th. The rake cam z, and standard W, constructed of one solid piece from end to end; listh. The standard v, made hollow and fitted to constitute a box or bearing for the driving shaft? Of the rake; 19th. The sam z, and standard w, provided with feet 20, and slots for the boits whereby said cam may be adjusted to properly regulate the strokes of the reel and rake; 23th. The double tree plate 42 provided with adjusting boits and hades whereby the position of said plate may be shifted upon the tongue, as required to equalize the dra't.

No. 2542. JACOB KAISER, York, Ont., 24th July. 1873, for 5 years: "Grain or Corn Grushing Mill." (Moulin à triturer le grain ou le mais.)

Adapted to steam or horse-power and by removing the pulley and attaching a crank handle to the driving shaft it can be worked by

Plaim—1st. The series of inclined prooves b, b, around the inner cdgo of the annular plate B; 2nd. The horizontal metal plate C, constructed and operated as described.

No. 2543. CHARLES B. CLARK, Buffalo, N. Y., U. S., 24th July, 1873: for 5 years: "Sliding Door Hanger." (Ajustage de porte en cou-

Claim.—lat. The bevelled wheel B, in combination with a bevelled track c, and guide f; 2nd. In combination with a rail C, wheel B, and hanger frame A, and lip h, and stop i.

No. 2545. EEGAR COAPMAN, Rochester, N. Y., U. S., 24th July, 1873, for 5 years: "Machine for forming Barrel Hoops." (Machine à former les cercles de futaille.)

Plaim—but. The combination of the pre- ag roller G, and forming wheel A, when arranged to operate in the manner specified; 2nd. The forming wheel A, constructed in two parts which open and close to enlarge or contract the size of the hoop when combined with the stationary disk B; in the right and left screw C, slides L to tscrews; a and slots K. K. when combined at the the forming wheal A, and disk B; the The combination of the dog D, and the depressed part S, of the periphery of the forming wheel whe arranged to operate in the manner specified.

No. 2546. EDWARD SCHIRCK, Rochester, N. Y. U.S., 24th July, 1873, for 5 years: "A Governor Valve." (Une pendule conique.)

Consists in combining in the ordinary casing or shelf of the valve, a cylinder in which the piston plays, said cylinder and niston having coincident parts for the passage of the steam, also in a device for swivelling the piston rod and a lever for ruising the balls for letting on the steam.

Claim on the Figure.

Claim — let. The combination with the exterior easing A, of the enterior sylinder E, and piston G, when provided with concedent parts c, d; 2nd. In combination with the governor valve having the cylinder B, and piston G, the lever K. when arranged to operate the piston to let an steam in starting the engine as described.

No. 2547. JOHN TAYLOR, Whithy, Ont., 24th July, 1873, for 5 years: "A Pot Strainer." (Un couloir à not.)

Claim —The inclorated strainer, made of the or other material to fit in any not or other vessel for cooking or boiling vegetables, meats or other articles so that upon lifting said strainer out of the pot or botter the water or other liquid is strained or drained ont into the pot or vessel from which the strainer has been lifted.

No. 2548. JOHN TESSEYMAN, & EDMUND I. HOWARD, Dayton, Ohio, U.S., 24th July, 1873, for 15 years: "Valve Gear for Direct-Acting Steam Engines." (Appareil de soupape pour les machines à effet direct.)

Chaim.—1st, A direct acting engine, a reciprocating heap provided with two longitudinal grouves, intersecting at their ends and diverging in their centers, and through suitable mechanism connected with and imparting motion to the steam valve; 2nd In combination with theresiprocating cross head E, provided with the intersecting grouves it, and arm E, and with the valve rod K, and rocker arms L, Li, and hit, the rod U, provided with the adjustable collars I', and springs U: 3rd. The valve gearing as a whole when constructed and arranged to operate as set forth.

o. 2549. John D. Lewis, Toronto, Ont., 24th July, 1873, for 5 years: "A Child's Spring No. 2549. Crib. (Un hamac d'enfant à ressort.)

Claim.—1st The combination of springs S. S. with cords D. and H. eyes, C. C. C. C. cross bar F. and suspension chain G; 2nd. The combination of frames A, and B, with flexible bands x, x, x,

No. 2550. GEORGE H. PEDLAR, Oshawa, Ont., 24th July, 1873, for 5 years: "A Drum Heater and Fuel Saver." (Un poêle sourd épargnecombustible.)

Claim.—ist. A heater consisting of the outer drum A, inner drum or cylinder B, base piece C, tube D, chamber M, annular flus G, bottom E, annular can and top exit flue H, arranged as described; 2nd. In combination with the chamber M, concave base C, and air tube B, arranged as described.

o. 2551. WILLIAM HOWELL, Thorold, Ont., 25th July, 1873, for 5 years: "Self-adapting Rake and Pea Harvester." (Râteau et mois-No. sonneuse à pois combinés.)

Claim.—The combination of the II. hinge P, with the heads d, do of the rake, and draw-bar KI, as specified.

No. 2552. HENRY HARPER, Reach, Ont., 25th July, 1873, for 5 years: "Faming Mill Attachment." (Disposition de crible.)

Claim.—The combination of the bar A, A, and the pens B, B, B, as set forth.

No. 2553. VOLNEY SMITH, Schenectady, N. Y., U.S., 25th July, 1873, for 5 years: "Compound for Dental Purposes." (Composition a den-

Claim.—A dental plate made of the following ingredients, viz., gum cotton prepared gum shellae, a compound for the body sulphuric ether and alcohol prepared in the manner shown

No. 2554. Simeon F. Emerson & Joseph W. SABIN, Akron, Ohio, U. S., 25th July, 1873, for 5 years: "A Harvester Grinder." (Un rémouleur de couteaux de faucheuses.)

Claim.—lst The movemble adjustable base A; 2nd. The ears I, formed on the base for limiting the movement of the standard and holding it in position; 3rd. The adjustable head C, pivoted to the standard and used for adjusting the grinder to different angles; 4th. The base A, standard B, head C, and arms D. E, in combination with a grinder and suitable grinding mechanism.

No. 2555. HENRY G. DAYTON, Maysville, Ky., & EDWIN L. JONES, Washington, D. C., U. S., 25th July, 1873, for 5 years: "Machine for Carburetting Air." (Machine à carburer l'air.)

Claim—1st. The plate C, having the pipe P, and the float K, in combination with the feed pipe E; 2nd. The water chamber B, upon the bottom of the holder of the gasoline, or other hydrocarbon, and immediately under the latter as described

No. 2556. John May, Ottawa, & Charles B. PETTIT, Richmond, Ont., 25th July, 1873, for 5 years: "Cast Metal Fence Post. (Poteau de palissade en fonte.)

Chains.—let. A cast metal fence post, the upper portion A, formed broad and thin with suitable perforations B, therein, and the lower portion round and tapering or of tapering cruciform webs or ribs C; 2nd. In forming the top of the post and inclined cap piece or plate F, to hold a weather board G. 3rd. In providing the post A, at or immediately below the ground line, or top of the ribs, with hooks D, or their equivalent to receive a stay bar E. as seribed.

No. 2557. EDWARD CHURCHILL, St. Thomas, Ont., 25th July, 1873: "Composition for Roofing." (Composition à toiture.)

Claim—A composition composed of the following ingredients ordinary roofing paper: a gum composed of paratine and gas tar; any coarse linen canvas, dry cement composed of water line, slacked white line, salt, pulvorized mica, and claan sand, and the finishing coat composed of white line a gum composed of parafine and gas tar; unlacked water line, salt, pulverized mica and pulverized potagh boiled in water, the whole mixed in the proportions set forth.

No. 2558. CHARLES B. CLARK, Buffalo, N. Y., U. S. 25th July, 1873, for 5 years: "A Mop Head." (Un manche de torchon.)

Claim.—1st. The central annular groove B formed by uniting the two parts E, of the moveable jaw D, for operating in connection with the nut G; 2nd The wire or moveable jaw d, provided with the bent ends, in combination with the rivets c, c, and the annular necesses f, f, in the plates E, E; 3rd. The nut G, formed with the opposite spins d, i, in combination with the grooves a, b, of the collar constructed and operating as set forth; 4th The mop-head the shank B, provided with the double series of rack-teeth K, K, and operating in connection with the inclined feather h, of the nut G.

[o. 2559. GEORGE S. CHASE, Toronto, Ont., 25th July, 1873, for 5 years: "Coal Oil Cook-ing Stove." (Poèle de cuisine à pétrole.)

Claim.—1st. The horizontal extension of stove plate forming flue A, aperture or orifice C, with raised places B, B; 2nd. The downward extension D, with hinged portion E, to admit of the adjustment of the heater to the stove plate; 3rd. The water-trough with tube for separating the flames of the burners when required.

No. 2560. ADELE E. P. BAUDVIN, Paris, France, 25th July, 1873, for 5 years: "A Metallic Alloy resembling Silver." (Un alliage métallique imitant l'argent.)

(Vaim —The manufacture of an alloy resembling silver by combining the following metals copper, nickel, tin inc. cobalt, and iron, with sometimes the addition of a small quantity of aluminium in the proportions set forth.

No. 2561. Lewis M. Hills, New Hayen, Ct., U. S., 25th July, 1873, for 15 years: "Paneling and Molding Machine." (Machine à lambrissage et moulage.)

Sage et moullage.)

Claim.—1st. In combination with a revolving cutter, and a hold ing device having both 1 longitudinal ard transverse movement a templet as a guide for th. path of said cutter, when the said templet ir made actiustable as to length and width; 2nd In combination with the adjustable templet, described, and revolving autter, the collar guides 15. or 18; 3rd. A templet as a guide for paneling machines the sides of which are formed in several parts secured together by a covering plate and the other two sides adjustable at to length as set forth; 4th. The shaft C2, provided with cylinders E3, and combined with cylinders E4, and c3. 2... and a curved irregular templet constructed as described; 5th. In combination with a revolving cutter the table Fig. 14, provided with the stud or guide d6, in axial line with the said cutters; 6th. In combination with a revolving outter the table Fig. 14 provided with a stud or guide d6, in axial line with the said cutters, and with a series of collarguides upon the said stud or guide (7 th. Combination with a revolving cutter the table Fig. 14, provided with the stud or guide d6, in axial line with the said cutters, and with a series of collarguides upon the said stud or guide; 7th. Combination with a revolving cutter the table Fig. 14, provided with the stud or guide d6, in axial line with the said cutters, and with the sdustable bar b6.

No. 2562. ISAAC ATKINSON, Hamilton, Ont., 25th July, 1873, (Re-issue of Patent No. 1780): "Process of Curing and Packing Hams and Bacon, &c." (Procédé de conservation du iambon et du lard, etc.)

Claim.—The art or process of curing and packing meat, the same consisting in rolling the meat or meats in fine alum after being saited and washed, and packing with a sheet of paper or analogous material between or around each piece to prevent injurious contact as specified.

No. 2563. ROBERT L. WALTON, Stratford, Ont., 25th July, 1873, for 5 years: "Stake Holder for Flat Cars." (Porte-ridelles de wagons plats de chemin de fer.)

Consists in pivoting the stake holder to the sills instead of attaching them rigidly thereto which admits of the stake being folded.

Claim.—1st The combination of the disc a, and stake holder D pivoted on the bolt E: 2nd. In the combination of the stake holder D, stake C, and 1 ngitudinal rail H.

o. 2564. MALCOLM LEISHMAN, Montreal, Que., 25th July, 1873, for 5 years: "A Shirt." (Une chemise.)

So made that it will open all the way down, the necessity of drawing it over the head being thus obviated. ('laim -A shirt provided with a fly, e, as set forth.

o. 2565. WILLIAM BERRY, Montreal, Que. 25th July, 1863, for 5 years: "Improvements on Cocks and Valves." (Perfectionnements No. 2565. aux robinets et valves.)

Relating to cocks, valves, &c. of that class in which by the sliding, moving or revolving of the stopper or valve upon its seat an opening is either opened or closed as desired, also causing the valves or cocks to work with less friction.

Claim—1st. The cock K, having two or more openings opposite each other as shown at r, and  $\rho$ , as described; 2nd. The valve  $\ell$  in combination with the recess h, and with or without extensions X, by which communication is had with one or more passages C. C with or without passage d; 3rd. The valve f, constructed as described, having the pressure within and without the same.

o. 2566. WILLIAM MOORE, Barnston, Que., 25th July, 1873, for 5 years: "A Double Spring Bed Bottom." (Un fond de lit à doubles No. 2566. ressorts.)

('laim.—The combination of springs and slats, viz: longitudinal slats A, A, stationary pins B, B, cross slats C, C, cross slat springs E, E, with cross slat pins F, F, stretchers D, D, and stretcher springs G, G, as described.

No. 2567. HENRY S. FLOOD, San Francisco. Cal., U. S., 25th July, 1873, for 5 years: "A Corset Clasp." (Une agrafe de corset.)

The corset can be partially opened and turned down in front without the necessity of unfastening it entirely.

Caim.—Ist. The corset steels b, b, either provided with a hinged flap or section d, or constructed in two parts which are hinged together in the manner described; 2nd. The improved corset A, having the hinged corset steels b, b, as described.

No. 2568. o. 2568. JOHN LITTLE, Newburgh, N. Y. U. S., 25th July, 1873, for 15 years: "Horse Shoe Sharpener." (Rémouleur de fers à chevaux.) (Rémouleur de fers à chevaux.)

Consists of a tool or machine to sharpen the calks on horse's shoes when they are on the horse's foot instead of taking the shoes off and sharpening them in the usual way.

Caim.—The portable compound machine consisting of the grinding wheel A, and cutter Y, arranged on the same shaft and capable of being adjusted to any desired position.

No. 2569. JAMES M. DORLAN, Dorlan's Mills, Penn., U. S., 25th July, 1873, (Extension of Patent No. 1872, for a 2nd period, of 5 years): "Paper Sizing." (Collage du Papier.)

Claim.—1st. As a sixing ingredient or chloride of lime, or its equivalent; 2nd. Chloride of lime, or its equivalent; 2nd. Chloride of lime, or its equivalent, in quantities large or small, as a new and essential sixing ingredient or material and sea basis or principle in any composition of other sixing ingredients in and for sixing paper stock materials, or paper pulps to make pulp-sized papers, and for sixing any other article that has required or may require any degree of a poreless gum, sixe, or of a waterproof character. imparted thereto or therein; 3rd. The process of sixing paper stock materials and paper pults to make pulp-lixed papers when chloride of lime or its equivalent, shall compose a constituent part of the composition or mass of other sixing ingredients or materials; 4th. Chloride of lime as a sixing ingredient, in combination with resins, soaps, starches, oil, tallows and alums, separately or collectively.

No. 2570. James M. Dorlan, Dorlan's Mills, Penn., U. S., 26th July, 1873, (Extension of Patent No. 1872, for a 3rd period of 5 years). "Paper Sizing." (Collage du papier.)

No. 2571. WILLIAM H. CORY & EDWARD CORY, London, Eng., 26th July, 1873, for 10 years: "Artificial Fuel Blocks." (Blocs de combusti-"Artificial Fuel Blocks." ble artificiel.

Relates to the compounding of small coal, coal dust, i.e., in a minutely divided condition with certain ingredients which cause it to cohere when it is compressed into blocks.

Ulaim —The mixture of comentor clay and silicate of soda or of potash with carbonaceous matter for the production of fuel blocks as described.

No. 2572. WILLIAM H. CORY & EDWARD CORY, London, Eng., 26th July, 1873, for 10 years: "Fuel Moulding Machine." (Presse à com-

Claim.—Ist. A pressing and moulding machine the combination of the revolving moulding table A, containing mould cavities B, with the cover G, and feed hopper K, and with the plungers C, working on the helical tramway D; 2nd. The use for the moulds of such apparatus of sliding covers I, I.I. fitted with rollers L; and L3, which work in cam grooves in the cover G; 3rd. The mode of fitting the plungers C, which form the bottoms of the moulds B, with rims and inner plungers M, worked by rods N, so as to lift the moulded blocks clear of the said rims; 4th. The combination with the pressing and moulding apparatus, of the wipers S, and travelling band T, for removing the moulded blocks from the revolving table; 5th. The method of adjusting the oharge of the moulds and regulating the pressure to which the material is subjected in moulding by means of the moveable parts V, and W, of the inclined tramway and the springs W, which support the latter.

2572 FDANCES H PEPPY Drummond willow

No. 2573. Francis H. Perry, Drummondville, Ont., 26th July, 1873, for 5 years: "Machine tor Doubling and Twisting Yarns." (Machine

à doubler et retordre les fils.)

Claim.—1st. The vibrating arms II. H. and the vibrating ful-crums II. H., operated in the manner set forth; 2nd. In twisting the yams and controlling its draft or delivery by the revolution of the spindle Y; 3rd. The combination and application of the worm k, upon the spindle Y, and its worm gear X; 4th. The combination and use of the spindle Y, one headed bobbin XI, and flexible stop holder K1; 5th. In the inverted V, to control, the centrifugal action of the thread.

No. 2574. WILLIAM NEIL, San Francisco, Cal., U. S., 26th July, 1873, for 5 years: "Refiner for Distilling Apparatus." (Raffineur d'appareil de distillerie.)

Consists in an elongated vessel having disphragms placed across it at intervals. These disphragms are perforated alternately at the top and bottom for the passage of the vapors. Claim.—1st. The vessel A, with its perforated partitions E, and E, for directing and condensing the vapors and forming chambers for holding the condensed products, together with its enclosing wateriscket B; 2nd. In combination with the divided vessel A, the discharg pipes G, H, and E, and the vessel J, with its partitions E, graunally increasing in height from first to last; 3rd. In combination with the refiner in peculiar discharge vessel or pipe Al, having perforated floors. At, having perforated floors.

o. 2575. Hugh Robertson, Carillon, Que., 26th July, 1873, for 5 years: "Improvements on Sewing Machines." (Perfectionnements No. 2575. aux machines à coudre.)

Consists in the attachment and use of an oscillating hook, on one side of which is fixed a bracket or cell for the reception of the shuttle, the latter being secured therein by any auitable contrivance, and it relates also to the means employed of regulating the tension of the shuttle thread.

Claim—lst. The hook A. with its bracket B. or cell, oscillating on an axis D, in combination with a shuttle C, of a "sewing machine": 2nd The auxiliary hook I, or its equivalent, in combination with the oscillating hook A; 3rd. The spring M. applied to the oscillating hook A; the The moveable loop check N. applied and operating as set forth; 5th. The application to the shuttle C, of an internal or external spring P.

SIMON L. GOULD, Gardiner, Me., U. S., 26th July, 1873, for 5 years: "A Pulp Engine." (Un engin à pâte à papier.)

Claim.—1st. The case A, G, in combination with the centrifugal disintegrator B; 2nd. The partitions P, arranged in the case A, G, in combination with a centrifugal disintegrator

No. 2577. Hugh Ross, Plattsburg, N. Y., U. S., 26th July, 1873, for 5 years: "Wash Boiler Attachment." (Disposition de chaudière de buanderie.)

Claim.—1st. The air chamber I, tormed by the outwalls G, and lining H; 2nd The circulating passages U, formed by the inner walls J, lining H, and double partition walls P; 3rd In providing the steam and water passages in the inserted bottom A, with perforated coverings D, ball valves F, and cages E; 4th. In providing the inserted bottom A, with a surrounding rim B, and cross partition C;5th. The chamber de ice L, constructed with perforated sides and bottom and valved tube M, for holding essences or chemically saturated material for removing stains and the application of such device in the manner set forth.

o. 2578. CHARLES S. HALL, Rochester, N. Y., U. S., 26th July, 1873, for 5 years: "Grain Thrashing Separators." (Séparateurs pour les machines à battre les grains.)

Machines a Dature les Grains.)

Claim.—Ist. In combination with the thrashing cylinder H, the primary and secondary belts C, and D. arranged to operate conjointly in the manner set forth: 2nd. The benter E, constructed as described, in combination with the thrashing cylinder H, and belt C; 3rd The adjustable grate G, in combination with the cylinder H; 4th. The adjustable grate G, having its interstices arranged at right angles or nearly so, to the axis of the thrashing cylinder, and excending through unobstructed, to the rear end of the finger rode C; 6th. In grain thrashing separators, a concave formed of one or more segmen. provided with raised diagonal serrations; 6th In combination with the serrated portions N, N, in this class of concaves. The depressed bars V, arranged relatively as described.

No. 2579. James E. Crooker & Walter G. CROOKER, Toronto, Out., 25th July, 1873, for 5 years: "Vegetable and Root Basket." (Panier à légumes et à racines.)

Claim.—The wire busket A, and top and bottom frame B, B1, and handles C, C.

No.2580. Joseph E. Holmes, New York, U.S., 12th August, 1873, for 5 years: "Atmospheric (Moteur atmosphérique.)

Claim.—The general combination of cylinders A, piston B, and gearing with the use of atmospheric pressure as a motive power for small hand machines.

No. 2581. Prince Baker & James H. Baker, North Esk, N.B., 12th August, 1873, for 5 years: "Railway Snow Plough." (Charrue à neige de chemin de fer.)

This plough is mounted on wheels like an ordinary rallway waggon and provided with a fixed engine to operate the shovels independently from the locomotive required to carry it over the track.

Claim.—The combination of the plow share H, attached to the

Claim.—The combination of the plow share H, attached to the body of the plow by two arms I, operated by a cog-wheel and crank A, gearing on segment B, in shovels F, and g, operated by a fixed engine and working in opposite directions by means of a cog-wheel C, and goar-wheels D, and E, and in the application of a fixed engine to operate the shovels F, and G- as set forth.

No. 2582. Francis H. Perry, Drummondville, Ont., 12th August, 1873, for 5 years: "Croel and Tension Spooling Machine." (Cannelier et bobinoir à tension.)

Claim.—1st. The combination of the creel stand A, and spooler section B, into one frame. the whole constructed and arranged in the manner set forth; 2nd. The hinged roll J, levers F, and y, and pendent I, click wheels II, and III, friction driving pulley S, plates SI, and Sz, operating levers W, WI, and Wz, unlocking levers MI, and shipping spring S, and noteh NII; 3rd. The friction guide D, and sheet metallic rolls C, and II, the whole combined as set forth. forth.

No. 2583. Francis H. Ferry, Stamford, Ont., 12th August, 1873, for 5 years: "Journal Bearing and Holder." (Coussinet et support de tourillon.)

Claim—1st. The adjustable seat D, in combination with the main pendent hanger A, and the spherical bearing B; 2nd. The spring cap C, and set screws I, II, and key H; 3rd. The series of rings, or wire spiral coil bushing G, all combined as set forth.

No. 2584. JOHN ROBERTSON, (Assignee of John Robertson), Montreal, Que., 12th August, 1873, for 5 years: "Oscillating Steam Engines." (Machines à cylindres oscillants.)

Relates to that class of engines in which the piston or pistons are arranged to move in the arc of a circle.

(Vain.—The combination with the curved cylinder A, A, and its central abutment B, of the curved solid piston D, D, of smaller area in their transverse section than the cylinder, the glands or stuffing boxes C, C, and the valve ports d, d, e, all arranged as specified.

Addison Norman & George Bead. No. 2585. Junior, Toronto, Ont., 12th August, 1873, for 5 No. 2591. Hubert R. Ives & Rogers N. Allen, years: "Non Elastic Seamless Gaiter." (Guêtre non-élastique sans couture.)

Claim.—1st. Having an opening in the back of the boot upper A, with or without a bellows tongue B, and having a depression in the heel stiffener; 2nd. A boot upper A, with but one scam made in the centre of the back as described.

et machine pour cet objet.)

Consists in the arrangement of a reciprocating tool, which expands the links or meshes that are put through completed leops of the fabric and in the mechanism for shaping the wire. Ac (laim.—1st. The process of manufacturing knit fabrics or chains from wire by the use of an expanding tool F, which enlarges the loops subsequent to their application to the chains or fabrics; 2nd. The rod B, arranged as a guide for the fabric which is being knit from wire: 3rd. The intermittent rotary sleeved. combined with a rod B, for turning the fabrics: 4th. The wheels J. m. arranged on the bed A. of the machine for bending the wire into zig-zag form: 3th. The forked contractor G. applied to the wire knitting machine; 6th. The V shaped spring n. arranged in combination with the forked reciprocating contractor G: 7th. The rod B, provided with the groove p. in which the wire is guided; 5th. The spring plates r. applied to the bed A. for the support of the loop and reception of the expander; 9th. The reciprocating expander E. applied to a wire knitting or chain machine: 10. The cams H. arranged stationary on the bed A. for rod B, for turning up into a vertical position the expanded loops: 19th. The combination of the rod B, spring jaws r. r. and cam H. with the expander F; 12th. The method of making chains by enlarging the newly introduced links and then bending the same: 13th. The bed Ar. of a chain machine having the aperture n. through which the completed portice of the chain is put: 18th. The chain machine made as described.

No. 2587. CHARLES CATON, Coshocton, Ohio, U. S., 12th August. 1873. for 5 years: "A Miter-box." (Une boite à onglets.)

Claim.—let. The arc B. as arranged in relation to and in combination with the base board A: 2nd. The supporting stay D, in combination with the arc B: 3rd. The guides I. J, and saw guide consisting of the stem F, and arms F, stay D, index L, and disc H, in combination with the arm B, and base A; 4th. The combination of the adjustable saw guide, consisting of the stem E, and arms F, adjustable stay D, and are B.

JOSEPH S. PARROTT & HENRY E. No. 2588. PARROTT, Dayton, Ohio, U.S., 12th August, 1873, for 10 years; "Bolting Machine." (Un blutoir.)

Blutoir.)

Relates to the means employed for admitting currents of air below the screens, which currents are drawn through suitable openings in the walls of the case.

Claim.—1st. The inlets B, in the walls of the chest A, when said inlets are placed below the screen S; 2nd. In combination with the chest a, provided with inlets b, the air box B, arranged on top of said chest, and communicating with the interior thereof by means of an oblong passage fam box c, and trunk cl, the latter being provided with a regulating valve A; 3rd. The said chest a, provided with linlets B, and in combination with the screen supporting springs c, cl, the eccentric and adjustable shafts f; 4th. An air chest A, provided with inlets B, the socketted and shouldered

bumpers N, on the screen frame, in combination with springs e, and fixed blocks N; 5th. A chest A, provided with inlets b, the air box B, screen S, assages S!, and conveyer J, m, when arranged to operate as set forth.

No. 2589. ISAAC A. CHOMEL, New York, U.S., & AIMÉ N. N. AUBIN, Montreal, Que., 12th August, 1873, for 5 years: "Suspended Ship's (Hamac de navire.)

For the purpose of preventing sea-sickness.

For the purpose of preventing sea-sickness.

Claim.—1st. The guide bar F, the articulated frame G, and H, and the double berths D, suspended from a center ring and their connections; 2nd. The stiff suspension frame c, in combination with the bracket c, the universal joint and the berth E; 3rd. The suspension rod a, terminated by a universal joint placed nearly on a level with the point of suspension b, of the articulated frame, and in combination with the berth E; th. The double bolt J, in combination with the berth E, enabling the occupant to fix the berth in a stationary position; 5th. A spiral spring I, in combination with the berth E; 6th. The curtains X, in combination with the berth E, and its connections.

Frank Seabury, John S. Seabury AMMI D. SEABURY, ALPHEUS GRANT, NICHO-LAS GRANT & HERBERT GRANT, Yarmouth, Me., U. S., 12th August, 1873, for 10 years: "Filling for Wood to be Varnished." (Remplissage des pores du bois à vernir.)

Claim .- The employment of "Terra-Alba" as a wood filling.

Montreal, Que., 12th August, 1873, for 5 years; "Blind Hinge." (Charnière de persienne)

Claim.—A blind hinge consisting of the leaves A. and B, each provided with the horizontally projecting rib located at the extre mity of the leaves, the rib D. being provided with the conicelly recessed elongated eye; and the rib C, with the conically enlarged pintle a, b, said arrangement allowing the screw holes and pintle-eye, to becast at one operation.

A, with or without a benome a described.

2586. WILLIAM C. EDGE, Newark, N. J. U. S., 12th August, 1873, for 5 years: "Knitted, Fabrics and Machinery for the same." (Tricot et machine pour cet objet.)

Consists in the arrangement of a reciprocating tool, which expands the links or meshes that are put through completed loops of a manufacturing knit fabrics or chains and in the mechanism for shaping the wire, Action and in the mechanism for shaping the wire, Action and in the mechanism for shaping the wire, Action and in the mechanism for shaping the wire, Action and in the mechanism for shaping the wire, Action and in the mechanism for shaping the wire, Action and in the mechanism for shaping the wire, Action and in the mechanism for shaping the wire, Action and in the mechanism for shaping the wire, Action and Milliam H. Hop-king and in the mechanism for shaping the wire, Action and the mechanism for shaping the wire and the mechanism for shaping the w

Claim.—1st. The dram or pulley B, provided with the groove to makind are formed the ribs d, in combination with a rope, wire chain, or other flexible operating medium, passing over said dram or pulley, and held between said rims, when the bearing upon which said dram or pulley revolves is of greater diameter than that portion from which the load is suspended: 2nd. The pulley B made in two parts and secured together by the central bolt C, and nut d, lugs a, a, and recesses b, b, and provided with the arms s, c; 3rd. In combination with the pulley B, provided with the groove C, and the ribs d, and operated by a rope, wire, or channia one or more weighted brake levers 4, pivoted or otherwise connected to said pulley so as to revolve therewith and at the same time be free to occillate in a plane at right angles to the ans of revolution and an enclosing circular case against which said levers bear at a point near their fulcra when their weighted ends are thrown outward by centrifugal action; th. The peculiar construction of the weighted brake levers G, whereby two levers may cross each other while at the same time each may be heavily reighted at its free end; 5th. In combination with the dram or pulley B, and any suitable flexible operating medium in a self-adjusting guide for separating the rops or chains after they leave the casing.

No. 2593. STEPHEN E. ELLIS, Waltham, Mass., U.S., 12th August, 1873, for 5 years: "Clasp for Stocking Suspenders." (Agraffe de brtelles à bas.)

Claim.—1st. In the construction of a stocking supporter of a claim.—181. An the construction of a stocking supporter of a clamping mechanism or device by means of which the top of the stocking is grasped and held between two clamping surfaces in contradistinction to buckling or buttoning the same; 2nd. A clamp or clasp constructed as described.

No. 2594. HENRY E. MARCHAND, Pittsburg, Penn., U. S., 12th August, 1873, for 5 years: "A Car Coupler." (Attelage de voitures de chemin de fer.)

Claim.—lat. The vibrating trigger arm H, constructed as described, and arranged locally within the draw-head to operate in connection with a coupling pin and the coupling link of a car; 2nd. The coupling pin B, provided with an enlarged lower end and lateral riba D, to operate in relation to guide grooves in the draw-head; 3rd. The combination with the coupling pin and draw-head of a pivoted latch o.

No. 2595.	WILLIAM SHAT	w, (Assignee of	W.
Bignell,)	Quebec, Que, 1	2th August, 1873, ' (Un inhalateur	for
5 years:	" A Respirator."	' (Un inhalateur	.)

The object being to allow an invalid using the respirator to inhale the fresh air and expet the vittated air while sented in an partment.

Claim.—The combination of the mouth piece A, inlet and outlet valves B, and C, inhaling and exhaling tubes D, and E, and chamber G.

No. 2596. ISAAC TURNER, Markham, Ont., 12th August, 1873, for 5 years: "Railroad Car Coupler." (Attelage de voitures de chemin de fer.)

Relates to the combination of coupling pin and coupling link in such a manner that coupling and uncoupling may be performed without setting off the car or platform, the object being to prevent risk to life and limb.

Claim.—1st. The combination of the coupling pin A, and roller B; 2nd. The combination of the weight E, and the coupling link D; D 3rd. In the forms of the ends o, the coupling link D.

No. 2597. John Winer, Hamilton, Ont., 12th August, 1873, for 5 years: "Self-supplying Coal Cooking Stove." -(Poèle de cuisine à charbon à alimentation continue.)

Claim.—1st A pivoted movemble perforated cone shaped grate C, in combination with a fire box f, and stationary grate d: 2nd. The four corner diving flues  $\rho_i, \rho_i, \rho_j$ , opening into the air chamber or space P, under the oven; D 3rd. A cubed shaped self-supplying cooking store as shown constructed with four descending flues  $\rho_i, \rho_i, \rho_j$ , a stationary grate d, and movemble perforated cone grate c, with handle  $\rho_i$ .

No. 2598. THOMAS HAZARD, Wilmington, Ohio, U.S., 12th August, 1873, for 5 years: "Straw and Hay Cutter." (Coupe-paille.)

Claim.—1st. The knife ct, having n concave entting edge, and having one end pivoted to the frame B, and the other end pivoted to a pitman c, which is coupled to an arm on the end of a retary shaft b'. 2nd. The adjustable pin Lapplied to the stationary frame support on standard b, in combination with the rock shaft or lever h: rigid pin Lt, dog h, and comb b': 3rd. A presser feed roller fir a hay or straw-cutter constructed hellow and adapted to the reception of heavy filing: 4th. A presser block for a hay or straw-cutter constructed hellow and adapted to the reception of heavy filing: 5th. The wouth piece E, slotted arm I, and serew bolt N', in combination with the knife c'.

No. 2599. ROBERT BUSTIN, St. John, N. B., 12th August, 1873, for 5 years: "Portable Fireescape." (Appareil de sauvetage portatif.)

The person using the apparatus in lowering himself from window regulates the speed of his descent by pressure on the handles or by means of the cleat.

Claim—1st. The combination of the rope or wire C, with the telt E, the handles  $d_{\rm c}$ ,  $d_{\rm c}$  and the reel G: 2nd. The combination of the rope or wire C, with the cleat Fig. 5.

No. 2600. FRANK BRAMER, Little Falls, N. Y., U. S., 12th August, 1873, for 5 years: "A Mowing Machine." (Une moissonneuse.)

Claim.—Ist. The construction of the socket for the reception of the dividing stick or finger A. in such manner that said stick or finger may be rolled in the socket and secured in any p stion desired: 2nd. The combination of the iron C. hoard B. and adjustable dividing stick A: 3rd. The eccentric K. for the nursee of tilling the finger bar; 4th. The block M. one end of which forms a lever for tilling the finger bar, and which forms the attachment of the main connecting bar P. and the push bar J.: 4th. The combination of the eccentre K, and the block M: 6th. The combination of the block M, push har J, and main brace P; and 7th. The combination of the becentric K, block M, push bar J, main brace P. connecting rod H. and lever E.

No. 2601. Hugh H. Mawhinney, Stoneham, Mass., U.S., (Assignee of Jno. E. Wiggin,) 12th August, 1873, for 5 years: "Eyeletting Machine." (Machine à poser les œillets.)

Claim—The punch b, its bed c, and the upsetting anvil a, arranged as set forth, to have a lateral reciprocating motion and provided with mechanism for operating them so as to cause the material to be punched and fed forwards in order to be eyeletted; and in combination therewith and the work supporting platform, the presser f, provided with mechanism for actuating it as described.

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Mills, E. L., & C. H. Walters, (assignces), folding down stake for railway cars	2527 2566 2490 2497 2529 2527 2574 2585 2588 2550 2573	OF THE  CANADA PATENT OFFICE  JANUARY 14th, 1873.  1. DRAWING.  In order to allow the Patent Office to have a Patent Office printed and published, containing the Claims and Drawings of tents issued, it is further directed, in addition to the requirem	Record all Pa- cots of
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Mills, E. L., & C. H. Walters, (assignces), folding down stake for railway cars	2527 2566 2490 2497 2529 2527 2574 2585 2585 2573 2582	OF THE  CANADA PATENT OFFICE  JANUARY 14th, 1873.  1. DRAWING.  In order to allow the Patent Office to have a Patent Office printed and published, containing the Claims and Drawings of tents issued, it is further directed, in addition to the requirem Rule 13 and Form 15, that:  One Drawing on a sheet of Card board, 8 x 13 inches, will be re of each invention. in addition to those ordered by Rule 13 a the sheet is to be without writing on its face, merely the usual left required on the Drawing; written title, references, certificate,	Record all Pa- cuts of quired nd 15;
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# Canadian Patent Office Record.

ILLUSTRATIONS.















