

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 μ , and pendent I, click wheels L, and L', friction driving pulley E, plates S₁ and S₂, operating levers W, W₁, and W₂, unlocking levers M₁, and shipping spring S, and notch N₁; 3rd. The friction guide D, and sheet metallic rolls C, and H, the whole combined as set 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, H, 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.

Claim.—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.

No. 2585. ADDISON NORMAN & GEORGE HEAD, Junior, Toronto, Ont., 12th August, 1873, for 5 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 seam made in the centre of the back as described.

No. 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 the fabric and in the mechanism for shaping the wire, &c

Claim.—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 sleeve d, 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; 5th. 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; 8th. The spring plates r, r, applied to the bed A, for the support of the loop and reception of the expander; 9th. The reciprocating expander E₁, applied to a wire knitting or chain machine; 10. The cams H, arranged stationary on the bed A, or rod B, for turning up into a vertical position the expanded loops; 11th. 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 A, of a chain machine having the aperture u, through which the completed portion of the chain is put; 14th. The chain machine made as described.

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

Claim.—1st. 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 E, and arms F, stay D, index L, and disc H, in combination with the arc B, and base A; 4th. The combination of the adjustable saw guide, consisting of the stem E, and arms F, adjustable stay D, and arc B.

No. 2588. JOSEPH S. PARROTT & HENRY E. PARROTT, Dayton, Ohio, U. S., 12th August, 1873, for 10 years; "Bolting Machine." (Un 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 fan box c, and trunk c', the latter being provided with a regulating valve A; 3rd. The said chest a, provided with inlets B, and in combination with the screen supporting springs e, c', the eccentric and adjustable shafts f; 4th. An air chest A, provided with inlets B, the socketed and shouldered

bumpers N, on the screen frame, in combination with springs e, and fixed blocks N₁; 5th. A chest A, provided with inlets b, the air box B, screen S, passages S₁, and conveyor 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 Berth." (Hamac de navire.)

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 e₁, in combination with the bracket e₂, the universal joint and the berth E; 3rd. The suspension rod a₁, terminated by a universal joint placed nearly on a level with the point of suspension b₁, of the articulated frame, and in combination with the berth E; 4th. 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.

No. 2590. FRANK SEABURY, JOHN S. SEABURY AMMI D. SEABURY, ALPHEUS GRANT, NICHOLAS GRANT & HERBERT GRANT, Yarmouth, Me., U. S., 12th August, 1873, for 10 years: "Filling for Wood to be Varished." (Remplissage des pores du bois à vernir.)

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

No. 2591. HUBERT R. IVES & ROGERS N. ALLEN, 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 extremity of the leaves, the rib B, being provided with the conically recessed elongated eye; and the rib C, with the conically enlarged pin₁ a, b, said arrangement allowing the screw holes and pin₁ eye, to be cast at one operation.

No. 2592. JOSEPH A. TALPEY, Sommerville, JOHN HITCHCOCK, Boston, and WILLIAM H. HOPKINS, Sommerville, Mass., U. S., 12th August, 1873, for 15 years: "Fire-escape and Mechanism for Lowering Goods." (Appareil de sauvetage et pour descendre les meubles.)

Claim.—1st. The drum or pulley B, provided with the groove c, in which are formed the ribs d, in combination with a rope, wire, chain, or other flexible operating medium, passing over said drum or pulley, and held between said ribs, when the bearing upon which said drum 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 e, e, c; 3rd. In combination with the pulley B, provided with the groove C, and the ribs d, and operated by a rope, wire, or chain in one or more weighted brake levers f, pivoted or otherwise connected to said pulley so as to revolve therewith and at the same time be free to oscillate in a plane at right angles to the axis of revolution and an enclosing circular case against which said levers bear at a point near their fulcrum when their weighted ends are thrown outward by centrifugal action; 4th. 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 weighted at its free end; 5th. In combination with the drum or pulley B, and any suitable flexible operating medium in a self-adjusting guide for separating the ropes or chains after they leave the casing.

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

Claim.—1st. In 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.—1st. The vibrating trigger arm H, constructed as described, and arranged loosely 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 ribs 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.