

No. 5622. Life-preserving Stool.*(Banc de sauvetage.)*

Henry H. Nash, Baltimore, Md., U. S., 28th January, 1876, for 5 years.

Claim.—A life-preserving stool or chair having a seat made of disks of cork, confined between suitable boards.**No. 5623. Bed-bottom. (Fond de lit.)**

Frick Schorn and John Kulow, Petersburg, Ont., 28th January, 1876, for 5 years.

Claim.—1st. The frame A, A, A, pulleys B, B, B, also spring C, or springs or other elastic substance in combination with the rope D, D, 2nd. The winding apparatus.**No. 5624. Drum Heater. (Poêle-sourd.)**

William P. Buckbee, Smithville, Ont., 28th January, 1876, for 5 years.

Claim.—A drum stove having the central pipe C, and heads A, B, the vertical pipes E, entering the periphery of the heads A, B, horizontally by a curve or elbow.**No. 5625. Boot and Shoe Nail.***(Clou de chaussures.)*

Howard T. Marshall, Brockton, Mass., U. S., 28th January, for 5 years.

Claim.—1st. The nail having two opposite flat sides a, b, a corrugated or intended edge c, tapering and clinching end f; 2nd. A nail having two opposite flat sides a, b with an edge c, which tapers along the length of the nail and an edge c, which is corrugated and an enlarged head g; 3rd. A nail made from a flat metallic strip and having the tapering wedge-shaped head g edge corrugation c, and clinching point f.**No. 5626. Stove-pipe Elbow.***(Coude de tuyau de poêle.)*

Andreas Syversen, Chicago, Ill., U. S., 28th January, 1876, for 5 years.

Claim.—The curved stove-pipe elbow consisting of two curved pieces of pipe A, B, connected together by the joint C, so as to be adjustable upon each other.**No. 5627. Improvement on Hydrants.***(Perfectionnement des bornes-fontaines.)*

Christian F. Rapp, Cincinnati, Ohio, U. S., 28th January, 1876, for 5 years.

Claim.—1st. In combination with water main A, the supply pipe B, governed by valve b, of any desired construction, and branch pipes B¹, B², 2nd. In combination with supply pipes B¹, B², the depressed elbow A¹, connected by joint waste cock; 3rd. The plug C, having apertures c, c¹, d, d¹, e, e¹, pinion e, and face plate F, f, f¹; 4th. In combination with disc E, e¹, e², of plug U, and pinion e, the spring stop f, f¹, of face plate F¹, 5th. In connection with disc E, e¹, e², of plug C, the double index hand G.**No. 5628. Improvement on Hydrants.***(Perfectionnement des bornes-fontaines.)*

Christian F. Rapp, Cincinnati, Ohio, U. S., 28th January, 1876, for 5 years.

Claim.—As an improvement in hydrants for preventing the freezing up in winter, the combination of supply pipe B, with a three way cock C, and exit pipe B², and with a second three way cock D, and issuing pipe B³, pump connecting pipe E, and pump F, the whole arrangement to admit of the forcing out of the water from the pipes exposed to freezing.**No. 5629. Bottle Stopper. (Bouchon de bouteille.)**

Charles de Quillfeldt, New-York, U. S., 28th January, 1876, for 5 years.

Claim.—1st. The bottle stopping device composed of a pivoted lever frame applied to neck of bottle, with eccentrically hinged yoke carrying the elastic stopper and cap piece; 2nd. The elastic stopper hung by its perforated stem or shank to the upper part of hinged yoke in combination with the yoke and a sleeve-shaped cap piece placed over the stopper below the yoke; 3rd. An elastic stopper made of a disk shaped base part and central stem or shank perforated near the upper end; 4th. A flanged and sleeve-shaped cap piece provided with projecting guard lugs at both sides of the projecting head or end of the shank of the stopper.**No. 5630. Improvements in Plastering.***(Perfectionnements dans le plâtrage.)*

Smith Thomson, Malvern, Ont., 31st January, 1876, for 5 years.

Claim.—The tool D, for forming a dovetail groove to receive plaster therein.**No. 5631. Combined Fireman's Ladder and Fire-escape. (Echelle de pompier et de sauvetage combinées.)**

David Sanford, Ashton, Ill., U. S., 31st January, 1876, for 5 years.

Claim.—1st. The combination of a coiled spring with the windlass of an extension ladder to counter-balance the weight of the ladder; 2nd. The swiveling ladder S, sliding extension T, and ropes V, combined and arranged with an extension ladder; 3rd. The combination of braces C¹, ratchets D¹, and catch pawls E¹, with the ladder; 4th. The combination of the inclined bar J, of the wheeled frame, and the hollow ladder A, pivoted between the said bars and at the angle thereof by means of a gimbal coupling K¹, L¹; 5th. The combination of the chain M¹, spur wheel N¹, and crank shaft O¹, with the ladder A, gimbal K¹, L¹, and carriage frame I¹; 6th. The combination of the chains S, levers T, and ratchet bars U¹, with the ladder A, the gimbal K¹, L¹, and the carriage frame I¹; 7th. The combination of the swivelled brace V¹, and the chain W¹, with the carriage G¹, H¹, I¹, J¹, of the pivoted ladder A.**No. 5632. Fruit Gatherer. (Cueilleuse de fruits.)**

Henry Varner, Montreal, Que., 31st January, 1876, for 5 years.

Claim.—The stem A, in combination with the base B, and the upright pins C.**No. 5633. Machine for Digging and Picking Potatoes. (Machine à arracher et ramasser les patates.)**

Edward Bartlett, Renfrew, Ont., 31st January, 1876, for 5 years.

Claim.—1st. The disposition of the cylindrical screen behind the driving wheels, also the manner of supporting the cylindrical screen from the front or end next the draft by means of a bracket or support; 2nd. The supporting of the cylindrical screen from the front or end next the draft, independent of the outside frame K, or other support; 3rd. The construction of the picking boxes for holding the potatoes and stands P, P; 4th. The construction of the adjustable spout 4, 4, with lever J, and the combination of lever J, with swiveling board Z; 5th. The combination of the adjustable spout with picking boxes 8, 8, and lever J, table P, P, and spokes or spindle T, and adjustable box G, with chain pulley u, and wheel m, and the combination of the whole picking apparatus.**No. 5634. Improvements on Breast Irons.***(Perfectionnements aux ferrures de reculement de harnais.)*

Benjamin Hickox and Charles Hickox, Brantford, Ont., 31st January, 1876, for 5 years.

Claim.—The combination of the two spurs C, and D, tongues E, and F, and spring G, in the retaining groove H, to form the breast iron A.**No. 5635. Improvements on Hoyt's Waggon Body and Hay Rack.***(Perfectionnements à la voiture charriot à four dit "de Hoyt.")*

Porter Williams, Detroit, Mich., U. S., 31st January, 1876, for 5 years.

Claim.—1st. The centre board C, with its contrivances for being made fast and fitted between the bars designed for Hoyt's hay rack and used in combination therewith; 2nd. The end boards m, and m¹, made of a height corresponding to the hay rack sides used vertically or of any convenient height in combination with said sides and with the contrivances o, o¹, and p, p¹, for the purpose of locking the same together and making the whole fast; 3rd. The pivot or bolt l, used in combination with standard Q, Q¹, for the purpose of bringing the same to a horizontal position from a vertical; 4th. The contrivance o, o¹, socket and lugs p, p¹, acting together and used in combination with Hoyt's waggon body and hay rack.**No. 5636. Improvements on Wheel Harrows.***(Perfectionnements aux herbes à disques.)*

Frank Brainer, Little-Falls, N. Y., U. S., 31st January, 1876, for 5 years.

Claim.—In combination with a gang or series of rotating harrow-disks, the cleaners or scrapers united to a reciprocating bar, adapting them to be operated simultaneously by means of a lever.**No. 5637. Machine for Rounding and Straightening Rods.***(Machine à arrondir et redresser les tiges.)*

Francis S. Malloch, Brockville, Ont., (Assignee of J. S. Seaman), 2nd February, 1876, for 5 years.

Claim.—1st. A pair of grooved or collared rolls D, D¹, one inclined in combination with a rest roll D²; 2nd. In combination with the several rolls D, D¹, D², the collars a, a¹, arranged opposite each other on the rounding and straightening rolls, and the collars c, on the rest roll, the collars last named being arranged opposite the groove of the main rolls; 3rd. A machine which rounds or straightens while the bar, rod or tube operated on moves along in the direction of the length of the roll surface, a roll slightly hollowed or dish-shaped in the direction of its length as an element in the combination of two rolls and a rest.**No. 5638. Combination and Burglar-Proof Lock. (Serrure à combinaison et à l'épreuve des voleurs.)**

Lawrence Gaffney and James Gaffney, Osgoode, Ont., and Michael Laughlin, Mountain, Ont., 2nd February, 1876, for 5 years.

Claim.—1st. The combination of the bolts E and F, and their springs K, with the star wheel w, and its spring L; 2nd. The combination of the tumbler B, composed of the washers a, d, i, n, r, u, their cuts e, j, k, o, p, v, their openings m, q, s, t, and their countersunk f, g, h, and the star wheel w, with a combination lock A; 3rd. With a combination-lock A, the combination of the gang R, and its dove I, spring O, hammer Q, slot T, and pin S.**No. 5639. Shirt Front. (Devant de chemise.)**

Alexander J. Millikin, Smith's Falls, Ont., 5th February, 1876, for 5 years.

Claim.—1st. A shirt front A, provided with the side pieces B, and having an elastic strap C, to connect therewith; 2nd. A shirt front provided with the button piece D, having connection with an elastic strap E, for attachment to a bottom on the drawers or pants of the wearer.**No. 5640. Side Plaiter. (Plisseur de côté.)**

Calvin E. Carpenter, Syracuse, N. Y., U. S., 5th February, 1876, for 5 years.

Claim.—In combination with a plaiting frame having spaced side bearings a, of the parallel plaiting needles b.**No. 5641. Improvements on Injectors and Ejectors.***(Perfectionnements aux injecteurs et ejecteurs.)*

George H. Little, Peabody, Mass., U. S., 5th February, 1876, for 5 years.

Claim.—1st. The inner steam tube C, having the small outlet E, and the side outlets c, c¹, in combination with outer tube D, the one tube being adjustable relatively to the other and whereby when the tubes are seated together the letting on of steam will draft water without moving any of the parts, and the unseating of these tubes from each other will force the drafted water into the boiler; 2nd. In combination with the inner steam tube c, the outer tube D, the regulating nut or nuts, the over flow-cock having a full sized opening, the over flow chamber straight or tapering and the outlet I, straight or of increasing size; 3rd. The combination with the outer case or shell of an injector of two inner tubes, one within the other.