

No. 13,095. Process for the Manufacture of Caps. (*Procédé pour la confection des casquettes.*)

Deville W. Northrup, Utica, N. Y., U. S., 13th July, 1881; for 5 years.

Claim.—1st. As a new article of manufacture, a cap composed of felt, woven or knitted fabric. 2nd. A cap constructed from a section of tubular woven or knitted fabric by pointing one edge thereof, and sewing the points together to form the cap crown by fulling the fabric to the required size and texture, and by blocking, lining, binding and trimming the article after fulling. 3rd. A cap constructed from a section of tubular woven or knitted fabric, by pointing one edge thereof, and sewing the points together to form the cap crown, by fashioning one edge to adapt it to cover the visor, by fulling the fabric to the required size, and by blocking and finishing the article after fulling. 4th. A process of making caps from woven or knitted fabric consisting in fashioning the fabric to the required shape in fulling it, to consolidate the mesh and obliterate the seams, and in blocking and brimming the fulling article.

No. 13,096. Improvements on Spring Washers. (*Perfectionnements aux rondelles a ressort.*)

Daniel R. Pratt, New York, N. Y., U. S., 13th July, 1881; for 5 years.

Claim.—1st. A spring or tension device to be used with nuts and bolts, consisting of a spring formed of drawn or rolled steel wire, bent to the shape of an open annulus or polygon and corrugated, the free ends of the wire being in the same plane.

No. 13,097. Broom Corn Sizing Machine. (*Machine à assortir la houque.*)

George W. Bronson, Adelaide Bronson, Amsterdam, N. Y., U. S., and Valancy E. Fuller, Hamilton, Ont., (representatives of Alphonso Wabrath, Fort Plain, N. Y., U. S.) 13th July, 1881; (Extension of Patent No. 6321).

No. 13,098. Improvements on Coffee Percolators. (*Perfectionnements aux cafetières.*)

Wentworth G. Petry, Quebec, Que., 13th July, 1881; (Extension of Patent No. 10,962.)

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No. 13,100. Improvements on Fences. (*Perfectionnements aux clôtures.*)

Jesse Kinney, London, Ont., 14th July, 1881; (Extension of Patent No. 6,396.)

No. 13,101. Improvements in Implements for Saturating Felt Roofing. (*Perfectionnements aux appareils pour saturer les toitures en feutre.*)

John W. Paterson, Montreal, Que., 16th July, 1881; for 5 years.

Claim.—1st. The pillow blocks E, with their standards d, lugs e, and set screws f, and the reels D. 2nd. The arrangement and combination of the vat with the spindles, rollers, reels, pillow blocks and bearings.

No. 13,102. Improvement on Measuring Faucets. (*Perfectionnement aux robinets-competeurs.*)

Daniel Drawbaugh, Eberly's Mills, Pa., U. S., 16th July, 1881; for 15 years.

Claim.—1st. In a circular chamber provided with inlet and outlet ports, a cylindrical piston rotating eccentrically within such chamber, with its periphery in sliding contact with a circumferential wall thereof, and a fixed position cut off, located between the inlet and outlet ports of the chamber and extending into a recess or slot in the rotating piston, for preventing the exit of the liquid until measured and regularly delivered by the rotating piston. 2nd. A rotating piston mounted upon the wrist of a crank, or crank disk, on an actuating shaft. 3rd. The combination of an actuating shaft, the crank disk and its wrist, with the cylindrical piston, and the chamber having the recess in its side wall, for the accommodation of the crank disk.

No. 13,103. Improvements on Cockle Mills. (*Perfectionnements aux moulins à vraiei.*)

James M. King, Walnut Station, Min., U. S., 16th July, 1881; for 5 years.

Claim.—The adjustably inclined step-formed screen D provided with the checking and spreading boards G, arranged just below the edge of each step and perpendicular thereto, so as to intercept and spread the material before passing to the next section.

No. 13,104. Improvements in Cigarette Machines. (*Perfectionnements aux machines à cigarettes.*)

James A. Bonsack, Bonsack's, Va., U. S., 16th July, 1881; for 5 years.

Claim.—1st. In a cigarette machine, the combination, with a toothed distributing roller and a concave, of a roller located at the entering side of the concave and having teeth upon its periphery which cooperate with the concave for feeding the stock to the distributing cylinder and preventing it from piling upon the outside. 2nd. The combi-

nation, with the endless spreading belt C and its reciprocating frame or carriage, of a rotary brush C₅ located at the delivery end of said belt, and mounted upon its carrying frame so as to reciprocate with it. 3rd. The combination, with the distributing toothed roller E₂, the concave E₁ and roller E, of the toothed belt D passing around the roller E between the same and the concave. 4th. The combination, with the concave E₁, the roller E and the toothed belt D passing around roller E, of a presser roller C₁₀ for forcing the tobacco down between the teeth of the belt, before passing beneath the concave. 5th. A device for forming a continuous cigarette filler consisting of three endless metal belts arranged to form a trough, and a pressing surface acting in the open side of the trough. 6th. The combination, with the three endless metal belts forming a trough as described, of backing strips for guiding said belts and forming resistance as against internal pressure. 7th. The combination, with the endless metal belt F₃, of the two belts F₁ F₂ arranged at right angles to F₃, and the pulleys F₄ F₅ F₆ F₇ having flanges at their upper edges to hold these belts down closely upon F₃. 8th. The combination with the three endless metal belts arranged as described, of three pulleys located at one end of the belts and three other pulleys located at the other end of the belts, one of said sets of pulleys being connected together by level gears for the equal and uniform travel of the belts. 9th. The combination, with a rotary cutting disk, of an adjustable holder for the cigarette roll, and mechanism connecting with said holder for projecting said cigarette roll against the cutting disk, instead of the disk against the cigarette roll. 10th. The combination, with a cigarette machine which makes a continuous cigarette, of a cutting device having, when in cutting action, a secondary movement in the same direction with the cigarette, as it emerges from the machine.

No. 13,105. Improvements in Pantaloen Suspenders. (*Perfectionnements aux bretelles.*)

Henry Turner, Montreal, Que., 16th July, 1881; for 5 years.

Claim.—1st. The combination of the eye M provided with bevels N and distance piece P, with the clasp H having points and eye L, and with the loop consisting of the parts D C B forming the button hole E, 2nd. A loop for a pantaloen suspender having a cross bar B, ends C D, all formed in one continuous piece of material and forming a button hole E. 3rd. A flat clasp H having points L and eye L. 4th. A shoulder strap eye M provided with bevels N and distance piece P.

No. 13,106. Force Pump. (*Pompe foulante.*)

Mott B. Brooks, Brockville, Ont., 16th July, 1881; for 5 years.

Claim.—1st. The base A and water chamber B. 2nd. The combination of the plunger barrel D and escape pipe F being contained within the water and air chamber E. 3rd. The movable foot brace G.

No. 13,107. Improvements on Steam Piston Packing. (*Perfectionnements aux garnitures des pistons.*)

Abram N. Matthews, John M. Winslow and Thomas C. Clary, Norwood, Mass., U. S., 16th July, 1881; for 5 years.

Claim.—1st. In a piston packing composed of two divided rings fitted one within the other, the inner ring being provided with a projection B fitting within a corresponding recess a a in the outer ring. 2nd. The packing ring A having a joint or division b, at right angles to the plane of its diameter, and arranged centrally to the recess a a. 3rd. In a piston packing, the projection B attached to, or forming a part of ring C.

No. 13,108. Improvements in Cooking Stoves. (*Perfectionnements aux poêles de cuisine.*)

The N. S. Vedder Pattern Works, Bascom, Galbraith & Co., (Assignees of Robert Galbraith,) Troy, N. Y., U. S., 16th July, 1881; for 5 years.

Claim.—1st. The combination, with a stove having the rear top hole plate B and a heating flue immediately under that plate, of the water reservoir fitting upon that plate and over the pot holes therein, and movable thereon, and hinged at one front corner part of the reservoir to one side part of the stove. 2nd. The combination, with a stove having the rear pot hole plate, and removable reservoir fitting upon said plate, of the two pairs of half hinges c c d d fast on the two front corners of the reservoir and on the two side parts of the stove, respectively, and adapted to be connected by removable pins. 3rd. The combination, with a stove, the movable water reservoir hinged at one front corner to one side part of the stove, of the removable extension piece F detachably secured to the stove and helping to support the reservoir, when the latter is turned off from over the pot holes on to said extension piece. 4th. The combination, with a stove having a rear pot hole plate B over a heating flue space C, of a water reservoir consisting of the inner vessel D, and the outer casing E containing said vessel and supporting its bottom and fitting, and movable to and fro on said pot hole plate, with a space G between the walls of said vessel and its casing, and the bottom of the casing being open for the passage of heated air or gas from the space C into the space G. 5th. The combination, with a stove having a rear pot hole plate B over a heating flue C, of the movable casing E fitting on said plates over the pot holes therein, hinged at one front corner to one side of the stove and having walls k on all sides, a top opening through which a water vessel D can be inserted and removed, and a bottom l with opening m for supporting the bottom of the water vessel and permitting contact therewith of heated air or gas from the stove. 6th. The combination, with a stove having a rear pot hole plate B and the removable casing E fitting upon said plate and formed to receive, contain and support a removable vessel, of the two pairs of half hinges c c d d fast on the two front corners of said casing and on the two side parts of the stove, respectively, and adapted to be connected by removable pivot pins.

No. 13,109. Improvements on Waterproof Compounds. (*Perfectionnements aux composés hydrofuges.*)

Paul Crippen, Bronson, Mich., U. S., 16th July, 1881; for 5 years.

Claim.—A water proof compound composed of coal tar, sulphur and alum mixed and boiled.