

**No. 9118. Spring Bed Bottom.** (*Fond de lit a ressorts*.)

John Aulford, Hamilton, Ont. (Assignee of John L. Secomb, Chicago, Ill. U.S. 19th August 1878 (Extension of Patent No. 2728), for 5 years.

**No. 9119. Improvements in Saw Frames.** (*Perfectionnements dans les montars des scies.*)

William Hankin, Sr., Seelyville, Pa., U.S., 21st August, 1878, for 5 years.

**Claim.**—The bar D and brace D' slit or constructed from one and in the same piece, by which they are sprung apart, and pressure or power thus obtained to tighten and secure the parts of the frame in position, in combination with the bolt or its equivalent, d, strengthening or bracing them together where they converge.

**No. 9120. Improvements on Grain Doors.**

(*Perfectionnements aux portes à grain.*)

Thomas Sills, Fort Erie, Ont. 21st August, 1878, for 5 years.

**Claim.**—1st. The combination of the pivot casting H and the corner casting I, 2nd. The combination of the sluice D with the door C; 3rd. The combination of the fastener J and the latch K, with the tumbler L.

**No. 9121. Device for Lining Journal Boxes.**

(*Appareil pour doubler les boîtes des tourillons.*)

David A. Hopkins, Park Bridge, New Jersey, U.S., 21st August, 1878 for 5 years.

**Claim.**—1st. The mandrel A with its ledges b b and ribs a a or the equivalent thereof, made as set forth; 2nd. The mandrel A, provided with the ribs a a.

**No. 9122. Improvement in Button Fasteners.**

(*Perfectionnements dans les queues des boutons.*)

Anna E. Kenyon (Administratrix of the goods of Martin E. Kenyon) Providence, Rhode Island, U.S. 21st August, 1878, for 5 years.

**Claim.**—The combination with the button f provided with the eye e of the concave disc A, having the tongue b provided with the loop C, stamped out of one piece of metal.

**No. 9123. Improvements on Gas Lamps.**

(*Perfectionnements aux lampes a gaz.*)

William W. Austin, Lowell, Mass., U.S., 21st August, 1878, for 5 years.

**Claim.**—1st. The body or stand of a lamp formed with a series of shallow reservoirs placed within it one above the other, each having a short tube passing through the bottom of said reservoirs, and extending downward slightly more than the tube of the next reservoir under it projects upwards, 2nd. In combination with the stand of lamp and its internal shallow reservoirs placed one above the other and connected as described, a pipe to carry the hydro carbon gas to the burner from a point lower than said burner, 3rd. In combination with the stand A partitions B and short pipes C the overflow pipe F, and cock e, 4th. In combination with the stand A, partitions B and short pipes C the vertical tubes E and H provided with holes P and T.

**No. 9124. Improvements on Wheel Hubs.**

(*Perfectionnements aux moyeux des roues.*)

Jacob Kritch, Cleveland, Ohio, U.S., 21st August, 1878, for 5 years.

**Claim.**—1st. The band or shell F, and screw cap G in combination with the hollow axle H, and axle box, 2nd. The band or shell I with or without a flange E, screw cap G and hollow axle H, in combination with the elastic collars J and K; 3rd. An axle box and hollow axle H, provided with one or more outlets for the emission of oil elastic collars J and K, band or shell F and screw cap G in combination with a carriage wheel hub, 4th. A hub having therein an annular groove or recess provided at c, h end thereof with a shoulder in which to secure an elastic collar.

**No. 9125. Improvements on Corn Shellers.**

(*Perfectionnements aux egrenoirs a maïs.*)

Charles P. S. Wardwell, Lake Village, N.H., U.S., 21st August, 1878, for 10 years.

**Claim.**—1st. A shelling wheel A, constructed with a peripheral shelling rim g and a feeding flange h, projecting outward nearly at right angles from one edge of the shelling rim, both the rim and flange having teeth or projections on their faces; 2nd. A shelling wheel A, constructed with a peripheral shelling rim g, having teeth or ribs f i upon its periphery arranged in lines oblique to the axle of the shelling wheel and an outwardly projecting toothed feeding flange h; 3rd. In combination with the shelling rim g, and feeding flange h arranged at an angle to each other, the counter pressure concave D, moving inward in an oblique direction toward the said rim and flange.

**No. 9126. Paper Bag Machine.**

(*Machine à sacs en papier.*)

Alfred Adams, Cleveland, Ohio, and Bryson B. Taggart, Watertown, N.Y., U.S. (Assignees of Charles B. Stilwell, Worcester, Mass., U.S.) 21st August, 1878, for 15 years.

**Claim.**—1st. The tube forming plate, with laterally adjustable corners to vary the width of the bag blank as well as to compensate wear, 2nd. The V-shaped preliminary cutter operating on the blank apex foremost so as to cut successively from apex to base, 3rd. The combination of the preliminary cutter and the cutting roll, suspended within the partially formed tube, 4th. The combination of the preliminary cutter, the tube forming plate and the cutter roll, mounted therein; 5th. The combination of the tube forming plate, the cutting roll, the preliminary cutter and the continuously moving actuating cylinder, whereby a preliminary central cut is made in the paper before the complete folding of the tube, and while in motion; 6th. The combination of the cutting roll, the preliminary cutter and the friction pad, whereby the roll is set in motion before being struck by the knife; 7th. The combination of the tube forming plate, and the guards which maintain

the edges of the paper, in their partially folded position; 8th. The combination of the tube forming plate and the paste cup mounted on the swinging bracket to adjust it laterally relatively to the edge of the paper; 9th. The combination of the paste cup and its escape pipe forming a guide finger to hold down one edge of the paper and apply paste thereto; 10th. The combination of the tube forming plate, the actuating cylinder, the intermediate paste cup and its feed spouts which deposit the paste on the edge of the paper just before the completion of the formation of the tube; 11th. The combination of the roller shaft from which the paper is drawn, the actuating cylinders or feeding mechanism, and the tube forming plate across the surface of which the paper web or strip is drawn and then deflected at an angle of about 45° from its previous line of travel, whereby the strip is instantly doubled upon itself at the corners of the tube forming plate simply by the strain upon the paper; 12th. The combination of the roll or shaft from which the paper is drawn, the pasting device, the feeding mechanism and the tube and the forming plate; 13th. The combination of the roll or shaft from which the paper web or strip is drawn and then deflected at an angle of about 45° from its previous line of travel, whereby the strip is drawn forward under tension, its edge pasted and the strip then folded and its edges united; 13th. The combination of the actuating cylinder, the rock shaft carrying the oscillating pins (which perforate the tubular blank to aid in opening its mouth), and its locking and releasing devices, 14th. The combination of the actuating cylinder, its oscillating perforating pins and the slotted or toothed guard plate which insures the perforation of the paper by the pins, 15th. The combination of the actuating cylinder and the oscillating transverse cutting knives; 16th. The combination of two cylinders, oscillating knives mounted in one cylinder and corresponding grooves or recesses in the other cylinder for the reception of the knives; 17th. The combination of two cylinders, oscillating knives, their rock shaft and cam mounted in one cylinder, and corresponding grooves or recesses in the other cylinder, whereby the oscillating of the knives is controlled by the action of the cam upon the cylinder; 18th. The combination of the cylinder, the oscillating knives and the slitting knives whereby the blank is cut longitudinally and transversely on each side of the central seam; 19th. The combination of two cylinders perforating pins centrally arranged upon one cylinder and cutting and slitting knives mounted on the other cylinder, whereby the bag blank is cut on each side of the central seam and the opening of the mouth of the blank facilitated; 20th. The combination of the two actuating cylinders, the carrier cylinder and the interposed break plate, whereby the unfolding of the tubular blank is prevented; 21st. The combination of the break plate, the carrier cylinder and the parting roll, 22nd. The carrier cylinder with positively driven central section and with independently driven outer sections moving at a greater velocity; 23rd. The combination of the positively driven central section of the carrier cylinder, its independently driven outer sections and the holding and carrying bands moving at a greater speed than the central section to maintain tension in the blank; 24th. The combination of the sectional carrier cylinder, the rotating creasers and severing knife and the carrier bands; 25th. The combination of the carrier cylinder, the retaining roll, and the rotary creaser and severing knife, whereby the forward end of the blank is held in contact with the cylinder after the severance of the preceding blank; 26th. The combination of the carrier cylinder, its travelling bands and the oscillating folding arm travelling faster than, and overtaking the bag blank to form the first of the final folds; 27th. The combination of the carrier cylinder, its travelling bands, the oscillating folder and the folding roller which forms the final fold, 28th. The combination of the sectional carrier cylinder, the carrier bands, the oscillating folder, the folding roller and the compensating roller, whereby the final folds are compressed; 29th. The combination of the carrier cylinder, its bands, the folding roller, the compressing roller and the guides, whereby the finished blank is caused to conform to the surface of the roller after being compressed, 30th. The satchel bottom paper bag forming machine set forth, consisting of the combination of the tube forming, preliminary cutting, pasting, opening, creasing, carrying, final holding and discharging mechanisms, operating successively as described whereby the bags are completely formed at one continuous operation from a paper web.

**No. 9127. Method of Imparting Motion to Pendant Fans.** (*Mode de mise en mouvement des éventails suspendus.*)

Miles R. B. Cowan Windsor, Ont. 21st August, 1878, for 5 years.

**Claim.**—The combination of the arms A and B, supporting rod C, slides D D' attached to any ordinary rocking chair F, in the manner described.

**No. 9128. Improvements in Ice Tongs.**

(*Perfectionnements aux pinces à glace.*)

Nathaniel A. Allen and Charles W. Woodford, Montreal, Que. 21st August, 1878, for 5 years.

**Claim.**—1st. The combination with the two curved arms or holders proper, pivoted at their upper ends to a rigid bar or handle connecting them, of a ring or loop attaching them together at or near the point where they cross each other, 2nd. The combination of two curved arms pivoted to a bar or handle, a ring or other fastening and thumb rest or projection carried out from the upper end of one arm.

**No. 9129. Improvements in Knitting Machines.** (*Perfectionnements dans les machines à tricoter.*)

Patrick G. Close, (Assignee of John Blacklock,) Toronto, Ont., 29th August, 1878, for 5 years.

**Claim.**—1st. A cone shaped stationary ribbing dial or cylinder supported centrally above the vertical knitting cylinder, in combination with an overlying cam cylinder K, from which the ribbing needles are operated with a reciprocating downward and outward movement; 2nd. The bracket arm I operated from the vertical cam cylinder, in combination with the cam K and ribbing dial J, 3rd. The switch N, forming a portion of the ribbing cam L, and operated by the lever N, 4th. The ribbing attachment I J K, in combination with the vertical knitting cylinder B and cam cylinder C, 5th. A combined cam cylinder and cog ring, to which the yarn feeder is directly attached over the cam; 6th. The cam E elevated at the central portion above, and depressed below on each side of the general line of travel of needles; 7th. The adjustable cam wings F F', of the cam E, arranged in