

said devices are operated from power applied at the pivoted end of said arm, substantially as described. 79th. An arm swinging on a pivot carrying the devices for knotting, holding, and severing the cord, and provided with a slot arranged to guide the cord to said devices, substantially as described. 80th. The combination of the swinging arm carrying knotted devices, and means for applying power at the heel of the arm to operate said devices, said arm being slotted to insure the guiding of the cord to the knotted devices, substantially as described.

No. 25,995. Package for and Method of Packing Confectionery, etc.
(*Mode d'Emballage des bonbons, etc., et*
Botte pour cet Objet.)

John R. Stout, Brooklyn, N.Y., U.S., 14th February, 1887; 5 years.

Claim.—1st. The method, substantially as herein described, of packing confectionery, consisting in fitting a box cover removably to a box body or neck, in then placing them in position with the cover downward, in then laying the designed top layer of confectionery in or on the box top, in then filling the package and in then applying and fixing the box bottom inwardly in place, as set forth. 2nd. The method, substantially as herein described, of packing confectionery, consisting in filling it into or on a cover, or top, or body or neck, which are separated and removably put together, and then fitting the box bottom to the body or neck, and securing it permanently in place, as set forth.

No. 25,996. Rocking Chair. (*Fauteuil à Bascule.*)

Edward Sharp, Woodstock, Ont., 14th February 1887; 5 years.

Claim.—The combination of the front and rear swing arms H, H, on either side supported on the four movable bearings A, A (and A, A), and on the four fixed bearings C, C (and C, C), and so adjusted as to impart the swinging or rocking motion to the chair, substantially as hereinbefore set forth.

No. 25,997. Signal Apparatus.

(*Appareil à Signaux.*)

John R. Pheneey, Owatonna, Minn., U. S., 14th February, 1887; 5 years.

Claim.—1st. The case A, recessed at *a* and having signals E and F, connected, as described, with shafts G and H and reflectors C and lamp B, all combined as described. 2nd. In a signal apparatus, the weighted frame *e* having a suitable color, its arm *ex* and shaft G having spur-wheel *g*, combined with signal frame *f* and *f*, and shaft H having spur-wheel *h*, all combined and operating as described. 3rd. In the case having smoke-exit pipe, the combination of the lamp and reflectors, with the signals and shafts and their connecting spur-wheels, and the chains and pulleys by which the movable parts are operated, as described.

No. 25,998. Variable Expansion Gear Applicable to Locomotives, etc.
(*Appareil de Détente variable pour Locomotives, etc.*)

John Hepworth, Montreal, Que., 14th February, 1887; 5 years.

Claim.—1st. In a steam engine, the cut-off or riding valve stem connected to a lever pivoted to an extension of the main valve stem and actuated in either direction by springs attached to its lower end, and to fixed points on the engine, substantially as herein set forth. 2nd. In a steam engine, the combination of the following elements, viz., the riding valve, with stem connected to one end of a four-armed or cross-piece pivoted to extension of main valve stem springs connected to lower end of such four-armed piece, and to fixed points, stops pivoted on cross-arms of such four-armed piece, and engaging with step on extension of main valve stem and tripping levers actuated from cross-head and operating to detach said stops from such step, all as herein described and for the purposes set forth. 3rd. The combination, in a steam engine, of a slotted standard or bracket carried from frame, and carrying lever connected by link with cross-head expansion bar passing through slot in bracket, and lever double crank keyed on end of expansion bar and tripping levers pivoted to bracket, and having their ends connected with double crank, all as herein described and for the purposes set forth. 4th. The combination, with the main and riding valves, of a steam engine, of recessed seats formed at the ends of such main valves, as and for the purposes described.

No. 25,999. Car Spring. (*Resort de Char.*)

Richard Vose, New York, N.Y., U.S., 14th February, 1887; 5 years.

Claim.—1st. The combination, with a cylindrical spiral coil, of a conical spiral coil of substantially the same length as said cylindrical coil arranged within the same, whereby a spring produced in which the conjoint action of a conical and a cylindrical spiral coil is secured during the entire range of movement of said spring, substantially as described. 2nd. The combination, with the outer cylindrical coil A, the inner conical coil B and the base plate E of the top plate or cap D, provided with a depending flange projecting down between the upper ends of the coils, substantially as described. 3rd. The combination, with the outer cylindrical coil and the inner conical coil having its base constructed of a size to fit the interior of the cylindrical coil, of a base plate upon which they both rest, and means for holding the base of said conical coil from lateral movement upon the base plate, substantially as described. 4th. The combination, with the outer cylindrical coil A, and the inner conical coil B having its base constructed of a size to snugly fit the interior of the cylindrical coil of the base plate E, provided with the upwardly-projecting flange *b*, which passes up into the interior of the conical coil, and prevents it from moving laterally upon the said base-plate, substantially as described. 5th. The combination, with the outer

cylindrical coil A, the inner conical coil B having its base constructed of a size to fit the interior of the cylindrical coil, and the base plate E provided with the upwardly projecting flange *b*, which enters the interior of the conical spring, and holds it in place upon said base plate, of the top plate or cap D provided with the depending flange *d*, which projects down between the upper ends of the outer and inner coils, substantially as described.

No. 26,000. Combined Drag Harrow and Cultivator. (*Herse-Scarificateur.*)

Henry Parker, Gananoque, Ont., 14th February, 1887; 5 years.

Claim.—The combination, with the frame A, the double-ended teeth B, boxing D, provided with stops H, pivot bolt C and spring E, whereby the teeth will yield when the harrow frame is drawn from the end, and be rigid when drawn from the other end, as set forth.

No. 26,001. Composition Fire Kindler.

(*Allumoir Composé.*)

Edward Fearnside, Hamilton, Ont., 14th February, 1887; 5 years.

Claim.—A fire kindler, consisting of the combination of saw-dust, charcoal, and crude petroleum, in or about the proportions herein described, substantially as specified.

No. 26,002. Step-Ladder. (*Echelle à Queue.*)

Henry C. Russell, Toronto, Ont., 15th February, 1887; 5 years.

Claim.—1st. A step ladder, in which the steps A, are pivoted at *a* upon the uprights B, and the back legs C pivoted at *b* to the said uprights B, in combination with the bar H hinged upon the top step A, and provided with pivoted plates T, substantially as and for the purpose specified. 2nd. A step-ladder, in which the steps A are pivoted at *a* upon the uprights B, and the back legs C pivoted at *b* to the said uprights B, in combination with the bar H hinged upon the top step A, and foot braces D pivoted near the bottom of the uprights B, substantially as and for the purpose specified. 3rd. A step ladder, in which the steps A are pivoted at *a* upon the uprights B, and the back legs C pivoted at *b* to the said uprights B, in combination with the cross-braces F and pivoted foot-brace G, substantially as and for the purpose specified.

No. 26,003. Corset. (*Corset.*)

Henry W. Gilbert, Bridgeport, Conn., U. S., 15th February, 1887; 5 years.

Claim.—1st. A corset having at its back a pair of vertical strips connected to the respective corset sections by crossed, and alternating straps and waist bands provided with a buckle or other suitable fastening connected to the back strips, and adapted to be secured at the front of the corset, substantially as set forth. 2nd. The combination, with the corset sections, of a pair of vertical strips at the back thereof, short straps connecting each section with the opposite strip, and waist bands secured to said strips and adapted to draw and hold the same apart, whereby the rear edges of the corset sections are drawn and held together, substantially as specified. 3rd. A corset, the meeting edges of whose sections at the rear are provided each with a set of short straps, the two sets interlacing as shown and described, and provided also with strips connected to each of the sets of straps, and waist-bands secured to said strips and adapted to buckle at the front of the corset, substantially as described.

No. 26,004. Floor Clamp. (*Mordache à Plancher.*)

John H. A. Bayer, (assignee of Alexander, S. Bayer), Halifax, N.S., 15th February, 1887; 5 years.

Claim.—The combination of power lever, a rack B, slide C, bed plate D, connecting link E, pawl F, and steel pins *g, g, g*, substantially as and for the purpose hereinbefore set forth.

No. 26,005. Cash Box. (*Boîte à Monnaie.*)

Duncan McArthur, Winnipeg, Man., (assignee of Thomas Carney, St. Paul, Minn., U.S., 15th February, 1887; 5 years.

Claim.—1st. In a cash box, the combination of a coin tube, a key, a lever and a pivoted head, the coin tube having a slotted bottom, the lever connected with the key, and the head or pushing stem pivoted to the upper end of the lever and adapted to be moved in the slot of the tube, substantially as specified. 2nd. The combination, in a cash box, of a coin tube, a key, a pivoted spring lever and a head, the key connected with the pivoted lever which latter has its upper end provided with a spring head, whereby the downward movement of the key will carry the spring head through the slot of the coin tube and remove the lowest coin therefrom, substantially as specified. 3rd. The combination, with a coin tube, of a pivoted lever, a spring head, a finger key and a chute, the horizontal portion of the chute being slotted beneath the coin tube, the key connected with the pivoted lever and the head connected to the upper end of said lever, whereby pressure upon the key will cause the spring head to move in slots in the chute, and carry the lowest coin in the tube out upon the chute, substantially as specified. 4th. In a cash-box, the combination of the main casing A, the casting B provided with slots *b*, and having the inclined plane and chute formed upon it, the vertical casing D, the casting E provided with coin tubes *e*, casting F provided with slots *f*, the rod H, H, the levers I and the springs L, and adapted to have their upper ends push the lower coin of any box out of the latter, the keys *k* and the springs *l*, substantially as specified. 5th. In a cash-box, the combination, with the coin tubes and the casting B having the inclined plane and chute formed thereon, and provided with the slots *b* and stops *h*, of the keys *k*, rods H, H, levers *l* provided with the arms *h*, springs *l*, and heads *i* pivoted to the upper ends of the levers *h*, as specified.