

No. 37,867. Medicinal Compound.*(Composition médicale.)*

George Fierheller, Markham, Ontario, Canada, 1st December, 1891; 5 years.

Claim.—The composition of cod liver oil and iron mixed together to form an emulsion with a preservative ingredient and flavoring extract, substantially in the proportion and in the manner hereinbefore explained.

No. 37,868. Foot Warmer. (Chaufferette.)

Emanuel Richards, Goodland, Kansas, U. S. A., 1st December, 1891; 5 years.

Claim.—1st. A foot-warmer, comprising a base, an arched flue connected at its ends to the base, a central lamp tube or chamber, perforated foot-rests on each side of the lamp tube forming flues between them and the base, which flues have communications at their outer ends with the lower ends of the said arched flue, a lamp in the lamp chamber having communication with the arched flue, and a deflector at the crest of the arched flue directly opposite the lamp, substantially as described, for the purposes specified. 2nd. A foot-warmer composed of a base, an arched flue connected at its ends with the base, a central lamp tube, perforated foot-rests on each side of the lamp tube forming flues G, G, which communicate at their ends with the ends of the arched flue, the lamp in the lamp tube, and racks sprung across the angles between the sides of the lamp tube and the arched flue to brace the structure and forming warm compartments, substantially as described.

No. 36,869. Rubber Boot.*(Chaussure de caoutchouc.)*

Emmett A. Saunders, Nangatuck, Connecticut, U.S.A., 1st December, 1891; 5 years.

Claim.—1st. An improved article of manufacture, a boot or shoe which comprises a foot portion made of materials such as usually employed in the manufacture of vulcanized rubber foot-wear, such, for example, as rubber compound, or cloth and rubber combined, a separate leg portion composed of a suitably strong and durable material containing no rubber, but at the same time possessing sufficient rigidity to maintain itself like the ordinary heavy rubber boot leg in an upright or distended condition when not in actual use, and means by which such separately and differently made foot and leg portions are united in a strong, durable, and water-tight manner, substantially as hereinbefore set forth. 2nd. In a boot or shoe, the foot portion of which is composed of materials such as usually employed in the manufacture of vulcanized rubber goods for foot-wear, and the separate upwardly-extending leg portion of which is composed of some suitably strong and stiff fabric that does not contain any rubber, the combination, with the overlapping adjacent edges of the said foot portion and the said leg portion, of a cement seam and also a supplemental and positive fastening device, the said supplemental fastening device operating to effect a strong and durable permanent union of the said foot and leg portions, while the cementation of the seam operates to render the joint between said parts water-tight, all substantially as specified.

No. 37,870. Harvester. (Moissonneuse.)

Alexander Brown, Toronto, and John Draper, Whitby, both in Ontario, Canada, 1st December, 1891; 5 years.

Claim.—1st. A cutter bar suitably journaled on a grain table and provided with mechanism by which the angle of the cutter bar may be adjusted at will, substantially as and for the purpose specified. 2nd. A cutter bar suitably journaled on a grain table, a crank fixed to the end of the cutter bar and arranged to engage with a horn suitably suspended from the frame of the machine, in combination with a foot lever and rod by which the horn is adjusted for the purpose of angling the cutter bar, substantially as and for the purpose specified. 3rd. A cutter bar C, fixed to the rod D, which is journaled on the grain table A, a crank E, fixed to the rod D, provided with a pin G, to fit into a slot made in the horn H, the notch, as O, P, a bar I, arranged to support the horn H, in combination with the rod K, crank rod L, and foot lever N, substantially as and for the purpose specified. 4th. A bar R, pivoted at one end to the finger Q, and having near its other end a slot to fit over the pin S, projecting from the bar T, substantially as and for the purpose specified.

No. 37,871. Water Wheel. (Roue hydraulique.)

Isaac Ives, Albany, Prince Edward Island, Canada, 1st December, 1891; 5 years.

Claim.—1st. The combination in a water wheel of a fixed circular case closed at bottom and open at top, to tank or water supply, and having its circumference provided with adjustable gates N, N, &c., opening outwards, and an annular horizontal wheel revolving about case and provided with buckets D, D, &c., corresponding to gates N, N, &c., in case, and fastened at centre of its bottom about shaft A, substantially as and for the purposes hereinbefore set forth. 2nd. The combination in a water wheel of the adjustable gates N, N, &c., with their gate gear adjusted in an inner fixed case connected with tank, and the buckets D, D, &c., fixed into the circumference of an annular wheel revolving horizontally around case and fastened to shaft A, substantially as and for the purposes hereinbefore set forth.

No. 37,872. Car Coupler. (Attelage de chars.)

Cyrus Franklin Johnson and Wilber J. Carothers, both of La Fayette, Kentucky, U.S.A., 2nd December, 1891; 5 years.

Claim.—1st. In a car-coupling, the combination, with the draw-head, eyes depending therefrom, a slide-rod moving in said eyes and

having a downward bend in its body, and a depending plate at the front end of the rod, of a link-lifting frame of inverted V-shaped side elevation and having eyes at its angles, screws pivotally connecting said eyes to the sides of the draw-head, the rear member of said frame engaging said bend and the front member moving over the mouth of the draw-head, and having an opening spanning the rod, and a link and pin, substantially as described. 2nd. In a car-coupling, the combination, with the draw-head, eyes depending therefrom, and a slide-rod moving in said eyes bent downwardly in front of the forward eye and having a vertically-enlarged end, of a link-lifting frame pivotally connected to the draw-head and comprising a rear member engaging said head and a front member adapted to move over the mouth of the draw-head, and a link and pin, substantially as described. 3rd. In a car-coupling, the combination, with the draw-head, a pin-supporting block moving longitudinally therein, a pin passing vertically through said draw-head, a link, eyes depending from the draw-head, and a slide-rod moving in said eyes bent downwardly in front of the forward eye, and having a vertically-enlarged front end, of a link-lifting frame pivotally connected to the draw-head and comprising a rear member engaging said bend and a front member adapted to move over the mouth of the draw-head, substantially as and for the purpose hereinbefore set forth.

No. 37,873. Dog for Saw Mills.*(Clameau de scierie.)*

Nelson Clemenson Buck and E. C. Atkins & Company, all of Indianapolis, Indiana, U.S.A., 2nd December, 1891; 5 years.

Claim.—1st. The combination, in a saw-mill dog, of a vertical frame-work a vertically-moving bar or bars mounted in ways on said frame-work, a horizontal stud-shaft on said frame-work, a horizontal pin on each of the vertically-moving bar or bars arranged in substantially the same vertical plane as said stud-shaft, and a handle or lever F mounted on said stud-shaft, and having a cam slot or slots which engage with said pin or pins on said vertically-moving bar or bars, which bar or bars carry the dog or dogs, substantially as set forth. 2nd. The combination, in a saw-mill dog, of a suitable frame, two vertical bars carrying the dogs proper, mounted in ways or bearings in said frame, and provided at their upper ends with horizontal studs or pins, a handle or lever mounted on a horizontal stud-shaft on a part of said frame and between said vertical bars, and provided with two cam slots, one upon each side of its bearing, which engage with the studs or pins on said vertical bars, whereby they are operated simultaneously, and the dogs forced toward or from each other, substantially as set forth. 3rd. The combination, in a saw-mill dog, of the vertical frame-work C, the two vertically-moving dog-carrying bars D and E, mounted in bearings in said frame-work, a horizontal stud-shaft upon the upper portion of said frame-work, horizontal pins or studs upon the upper ends of said vertically-moving dog-carrying bars, and a handle or lever F having a large flat head mounted centrally upon said horizontal stud-shaft, and provided with cam slots formed in its head upon opposite sides of the central hole forming the bearing for said stud-shaft and adapted to engage with the studs or pins on the bars, said several parts being arranged and operating, substantially as shown and described.

No. 37,874. Headed Bolt or Screw.*(Boulon et vis à tête.)*

The American Screw Company, assignees of Charles D. Rogers, all of Providence, Rhode Island, U.S.A., 2nd December, 1891; 15 years.

Claim.—1st. A rolled or swaged headed bolt or screw having a portion of its shank or stem screw-threaded and fluted, and having that part of the shank contiguous to and uniting the head and fluted portions plain or ungrooved, substantially as hereinbefore described. 2nd. A headed bolt or screw having its shank provided at its entering end with screw-threads, the portion of the shank extending rearwardly from the screw-threaded part provided with ribs and grooves to form flutings, and the portion between and uniting the head and said fluted part being plain or unfluted, the diameter of the shank being substantially uniform throughout its length.

No. 37,875. Die for Rolling Screw Threads.*(Coussinet pour fileter les vis.)*

American Screw Company, assignees of Charles D. Rogers, all of Providence, Rhode Island, U.S.A., 2nd December, 1891; 15 years.

Claim.—1st. A die for raising the threads of a rolled screw radially from a screw-blank by compressing the metal for the threads laterally between the converging sides of the ribs of the die, and having the faces of the ribs rounded to form a concave bottom of the grooves of a screw, said ribs being narrow at the end where they commence to form the thread, so that they may be forced at the commencement of their action into the metal to the depth required to form the body of the screw and increasing in width, act laterally upon the metal between the ribs, and force it into the grooves which at the end of the operation gives it the precise form required for the thread. 2nd. The die A, substantially as hereinbefore described, for raising the threads of a rolled screw radially from a screw-blank, the working surface of the die being provided with a series of obliquely arranged expanding or developing ribs having rounded faces and converging adjacent sides, each rib being narrow at the end where it commences to form the thread, and increasing in width transversely to the opposite end of the die.

No. 37,876. Game or Puzzle.*(Jeu de patience.)*

John James Erin, Winona, and Joseph W. Skinner, La Crosse, both of Minnesota, U.S.A., 2nd December, 1891; 5 years.

Claim.—1st. The combination, in a game-board, or puzzle adapted to be held in the hand, of a base having a continuous wall, a central