

therein, of the guide rails P and coil springs e, which control the radial movement of the spindles, the former controlling their inward and the latter their outward movement, of the spindle boxes H which secure the spindles retractably in position, and of the friction disks K and L for revolving the live spindles, all substantially as and for the purposes described.

No. 22,608. Band for Snow Shoes.

(*Courroie de Raquettes.*)

Edward J. Harkin, Three Rivers, Que., 7th October, 1885; 5 years.

Claim.—1st. The band B attached to the netting or web of a snow shoe, substantially as shown and for the purpose set forth. 2nd. The combination of the band B and stirrup C with the netting or web of a snow shoe, substantially as herein shown and described.

No. 22,609. Machine for Making Wire Fences. (*Machine à Fabriquer les Clôtures en Fil de Fer.*)

Sam. Watson, Straughn, Ia., U.S., 7th October, 1885; 5 years.

Claim.—1st. In a wire fence machine, the combination of the part or link A₃, the part A₄ held in place by ways on the part A₃, and connected to the latter by mechanism for shifting its position, a twisting frame pivoted upon part A₄ and the part A₂ having the reel and tension devices. 2nd. In a wire fence machine, the combination of the stationary part A₃, the sliding part A₄, the twisting frame having the tubular twist and pivoted upon part A₄, and reels and tension devices for regulating the tension of the wire, substantially as described. 3rd. In a wire fence machine, the combination of the parts A₃, and A₄, the part A₂ having the overlapping strip and rack bar a₃, and the part A₂ having the cog wheel journaled thereon and meshing with rack bar a₃, and having the spring pawl, substantially as described, whereby the twisting frame is forced against the picket and gradually withdrawn as the wire is twisted, substantially as described. 4th. In a wire fence machine, the combination of the part A₃, the part A₄ having the twisting frame pivoted thereto, and the arm B₅ pivoted to the base and provided with the slot for the set screws by which it is attached to the twisting frame, substantially as described. 5th. In a wire fence machine, a tubular twisting head having the elongated eyes and the bars for regulating the size of the eyes, substantially as described. 6th. In a wire fence machine, the combination of the twisting frame and its supports, and the part A₂ having the reel frame and reels, and the posts E interposed between the reels and the twisting frame, substantially as described.

No. 22,610. Water Alarm Indicator.

(*Indicateur d'eau à Sonnerie.*)

Frank J. Bort and Jackson Allen, both of Cleveland, O., U.S., 7th October, 1885; 5 years.

Claim.—1st. The combination, with a water column, an indicator-tube connected thereto, a pipe connected at two points with said water column, and a whistle or other alarm connected to said pipe, of valves for closing communication between the water column and pipe, and floats for operating the valves. 2nd. The combination, with a water-column and indicator-tube connected thereto, the plugs E, the pipe connected to said plugs and the whistle connected to the upper end of the pipe, of the valves H, the levers G and floats I, substantially as set forth. 3rd. The combination, with a water column, sediment chamber located below said water column, and having a restricted neck and a discharge valve, and an indicator tube in communication with said water column, of an alarm pipe connected to the water column, an alarm secured to said pipe, and a valve and float for opening communication between the water column and alarm pipe, substantially as set forth.

No. 22,611. Self-Binding Reaper.

(*Moissonneuse-Lieuse.*)

Richard Bradley, Lindsay, Ont., 7th October, 1885; 5 years.

Claim.—1st. The castor driving wheel A₂ adapted to trail in any direction, and while doing so always in gear and giving power to the binding apparatus, in combination with and supporting the binding platform or table A₂, substantially as and for the purpose hereinbefore set forth. 2nd. The bevel gear, arranged as described, adapted to always remain in gear and operate while the table is moving, in combination with the castor driving wheel and the binding table, substantially as and for the purpose hereinbefore set forth. 3rd. The castor wheel knuckle or hinge and the boxings thereon, whereby three shafts, M, N, O, work to the same centre, and universal gearing and motion thereof secured. 4th. The knotted, having a barrel C with its six cogs spirally placed upon part of its circumference, and cam L₂, substantially as shown and described. 5th. The binder wheel L, with three rows of cogs adapted to hold the cord, cut, release and bind it, as shown and described. 6th. The crow's-beak J, with its cam J₆ adapted to open and close the beak, and to control the shaft J in its revolution. 7th. The fork K, with its bolt Q, having a hook Q, and the fork K having the cam K₂ and having the recess K₄ to receive the annular projection on the shaft J, substantially as and for the purpose hereinbefore set forth. 8th. The binder wheel L, having three rows of cogs, in combination with the knife X, press Y and stop Z, substantially as and for the purposes hereinbefore set forth.

No. 22,612. Straightway Swinging Check Valve. (*Soupape de Déclente à Oscillation Directe.*)

Thomas McAvity, James H. McAvity and Thomas McAvity, Jr., (Assignees of William McShane), St. John, N.B., 8th October, 1885; 5 years.

Claim.—1st. The making of the seat V, of a straight way swinging check valve, with valve or clack C (hinged at one side) on the entering end of a bushing nipple or section of pipe, as and for the purpose

hereinbefore described. 2nd. The combination of a bushing, nipple or section of pipe having a swinging check valve on its entering end, with a reducing T or other suitable pipe fitting or with a section of pipe, as hereinbefore set forth. 3rd. The combination of a straight way swinging check valve with a plug on the side of the casing thereof with an inwardly projecting point P for the valve or clack to strike against, as and for the purpose hereinbefore set forth.

No. 22,613. Measure Spout. (*Bec de Mesure.*)

Freeman Etheridge, Bradford, Pa., U.S., 9th October, 1885; 5 years.

Claim.—1st. A measure-spout provided with an elastic shank a a', adapted to be held automatically in or to the top of a measure, as and for the purpose described. 2nd. A measure-spout having guide-lip a₂, and one or more inwardly turned lips a₃, arranged substantially as and for the purpose set forth. 3rd. A new article of manufacture consisting of a measure spout constructed with a spring shank a a', and lips a₂ a₃, substantially as shown and described.

No. 22,614. Clevis. (*Volée.*)

John R. Davis, Bristol, Wis., U.S., 9th October, 1885; 5 years.

Claim.—A clevis consisting of the limb A, with the adjusting holes a' hinged to the limb B, each of said limbs A and B being provided with corresponding semi-circular notches a, and locked in position by means of the wooden pin p, in combination with the double staple S and staple ring R, substantially as shown and described.

No. 22,615. Traction Engine.

(*Machine Locomotive.*)

James Leigh, Orono, Ont., 9th October, 1885; 5 years.

Claim.—1st. In a traction-engine, an axle E, having formed upon or attached to it a ball D, in combination with a wheel having a cup formed within it to fit on to and constitute a journal for the ball D, and means substantially as described, for connecting the wheel to the ball, substantially as and for the purpose specified. 2nd. In a traction-engine, a ball D, formed upon, or attached to the axle E, in combination with a wheel having a cup D, formed in it, slots e, f, and pin g, substantially as and for the purpose specified.

No. 22,616. Buckle. (*Boucle.*)

Charles R. Mann, Buffalo, N.Y., U.S., 9th October, 1885; 5 years.

Claim.—1st. The combination, with the buckle frame composed of the loops A, A₁, and connecting bar A₂, of a sliding tongue portion B attached to the connecting bar A₂, and provided with a tongue b₁ and a thumb piece c, whereby the tongue can be moved toward and from the loop A₁, substantially as set forth. 2nd. The combination, with a buckle frame composed of the end loops A, A₁, and connecting bar A₂, of a sliding frame provided with a tongue and a clasp or band D, whereby the sliding frame is attached to the buckle frame, substantially as set forth. 3rd. The combination, with a buckle frame composed of the end loops A, A₁, and connecting bar A₂, of a sliding frame B, provided with a tongue b, having a shoulder f adapted to engage with one of the end loops of the buckle frame, substantially as set forth.

No. 22,617. Egg Food for Poultry.

(*Nourriture pour les Volailles.*)

Simon S. Myers, Philadelphia, Pa., U.S., 9th October 1885; 5 years.

Claim.—The process of preparing an egg food for poultry consisting in oyster shells, the same being then saturated with tincture of capsicum, and finally roasted, substantially as described.

No. 22,618. Fifth-Wheel. (*Rond d'Avant-Train.*)

Harvey B. Taryan, Crawfordsville, Ind., U.S., 9th October, 1885; 5 years.

Claim.—The fifth wheel, herein described, consisting of the base-plate a, having the two segmental under-beveled arcs f, f', and the central boss b, rising to the same horizontal plane, and provided with the central hole i, the bolster plate g, having the central hole h, and the central piece k, provided on its underside with vertical sides l and arc-shaped ends, which project beyond the sides, as shown, and are bevelled parallel from below inward and upward, to correspond to the under bevels of the arcs in the ring, and the outer wall of the boss b, and an interspace formed between its depending beveled arcs and the base-plate a, for the reception of the washer d, substantially as specified.

No. 22,619. Pulley. (*Poulie.*)

William Stephenson, Morris, Man., 10th October 1885; 5 years.

Claim.—1st. A pulley, constructed with grooves D across its face, as and for the purpose specified. 2nd. A pulley, constructed with diagonal grooves, slanting from the sides to the centre, as and for the purpose specified. 3rd. A pulley, constructed with projections on its face, formed of wood, iron, rubber, leather, or equivalent material, dove-tailed on or otherwise secured, as and for the purpose specified. 4th. In combination with grooved pulleys, of an oiled belting, as and for the purpose specified.

No. 22,620. Whippetree Hook.

(*Crochet de Palonnier.*)

John R. Davis, Bristol, Wis., U.S., 10th October, 1885; 5 years.

Claim.—The ferrule F, with the lug l and slotted shoulder S, in combination with the trace-hook R, h, and applied to the whippetree W, or its equivalent, substantially as described and for the uses and purposes mentioned.