

the supply of the lubricant thereto, and the forcing rod working between the adjoining ends of the said tubes, substantially as set forth. 6th. In a lubricator, the combination of the reservoir having the box or chamber C at one end, the inlet tube located across the reservoir at right angles to said chamber and entering the same, said tube being provided with inlet openings covered by a strainer and with a valve between these openings and its inner end, the outlet tube extending from said chamber and provided with a valve, the forcing rod working between the adjoining ends of the inlet and outlet tubes, and the adjustable valve-rod $\frac{1}{2}$ extending from the outside of the reservoir into the inlet tube, the entire regulation of the flow of the lubricant being effected by the adjustment of said valve rod with respect to the openings of the inlet tube, substantially as set forth. 7th. In a lubricator, the combination with the inlet tube located within the reservoir and provided with the openings and valve and a forcing rod for actuating said valve, of the adjustable valve rod $\frac{1}{2}$ working through said tube with relation to the openings, substantially as and for the purpose set forth. 8th. In a lubricator, the combination with a reservoir of the box or casing located on a corresponding horizontal plane and entering said box on diametrically opposite sides, the valves in said tubes and the openings in the inlet tube and a forcing rod operating at right angles to the valves and a regulating rod working in the inlet tube, substantially as and for the purpose set forth. 9th. In a lubricator, the combination with a reservoir having a box or casing within the same and provided with the forcing rod of the inlet tube having the openings in its shell, and a strainer fitted around the tube and over said openings, substantially as set forth. 10th. In a lubricator, the combination with an inlet tube located within the reservoir and having inlet openings of the regulating valve consisting of the screw threaded stem working longitudinally in said tube and provided with an end disc having a graduated face, substantially as and for the purpose set forth.

No. 22,376. Steam Boiler. (*Chaudière à Vapeur.*)

William Malam, Edgemore, Del., U. S., 3rd September, 1885; 5 years.

Claim.—1st. The combination of the casing and turbed cylindrical barrel of a boiler, of the locomotive type with a fire box casing having tubed transverse water legs in the upper portion of the combustion chamber, as set forth. 2nd. The combination of the casing and tubed cylindrical barrel of a boiler, of the locomotive type with the fire box casing having tubed transverse water legs Y and crown plates K, as set forth. 3rd. The combination of the casing and tubed barrel of a boiler, of the locomotive type with a fire box casing having tubed transverse water legs in the upper portion of the combustion chamber, the forward leg being deeper than the rear leg, as set forth. 4th. The combination of the fire box casing having tubed transverse water legs, the tubes G, the smoke box and stack and the boiler casing extended to enclose the smoke box and lower portion of the stack, and having a drum N enclosing the upper part of the stack, as set forth. 5th. The combination of the tube sheet, the smoke stack and the smoke box having a corrugated casing, with the casing A of the boiler, having an expanded front sheet enclosing the smoke-box, as set forth.

No. 22,377. Saw Set and Nail Punch.

(*Tourne-Gauche et Poignon.*)

Albano F. Peelman, Kensington, Ill., U. S.; 3rd September, 1885; 5 years.

Claim.—1st. A saw set, as herein described, consisting of a bar *a* having on one side a fish bellied edge *c* and sides *d*, *d*, substantially as and for the purpose specified. 2nd. The combined saw and nail set, formed of a bar *a*, having point *b* and fish-bellied edge *c* with flat sides *d*, *d*, substantially as and for the purpose specified.

No. 22,378. Base Burning Steam Boiler.

(*Chaudière à Vapeur.*)

Michael E. Herbert, St. Joseph, Mo., U. S., 3rd September, 1885; 5 years.

Claim.—The combination of the upper section having a semi-annular chamber communicating with a semi-cylindrical chamber at its rear end, the lower and inner section having a semi-annular chamber and having the hollow bridge communicating therewith, the circulating pipes connecting said sections together, and the coal magazine located at the front end of the boiler, substantially as shown and described.

No. 22,379. Clothes Dryer. (*Séchoir à Linge.*)

Joseph J. Bisel, Philadelphia, Pa., U. S., 3rd September, 1885; 5 years.

Claim.—1st. A frame provided with vertical guideways, in combination with a self-locking pulley arranged at the top of said frame, a slide with moves up and down in said guideway, a shelf hinged to said slide and provided with an angular slot, clothes supporting arms attached to said shelf, and a cord which passes over said pulley and down through said slot to said slide, where it is attached, substantially as set forth. 2nd. A slide provided with anti-friction rollers and an arm-supporting shelf hinged to said slide, in combination with a frame provided with vertical guideways, a self-locking pulley at the top of said frame and a cord which passes over said pulley and is attached to said slide, substantially as set forth. 3rd. A slide provided at each end with two sets of anti-friction rollers, arranged at right angles to each other, in combination with an upright frame having on each side a vertical guideway in which one set of said rollers runs, a shelf attached to said slide, clothes-supporting arms carried by said shelf, and means for raising and lowering said shelf and slide substantially as set forth. 4th. A vertically moving slide in combination with anti-friction rollers, a frame having vertical guideways, a shelf hinged to said slide and provided with clothes supporting arms, a cord attached to said shelf for raising and lowering it, and a detachable fastening device whereby said shelf may be held horizontal while being raised and lowered, substantially as set forth. 5th. A vertically moving slide and shelf in combination with the clothes

arms supported on said shelf, the frame for supporting and guiding said slide and shelf, and a cord and pulley for lifting and locking the same, said frame being provided with a forward extension, said pulley being attached to said extension at a point above the forward part of said shelf, and said cord being attached to the forward part of said shelf and extending up over said pulley. 6th. A set of pivoted clothes-supporting arms, arranged to fold laterally together, converging towards a central line, in combination with a hinged shelf to which they are attached, and a frame which allows said shelf and arms to be turned up within it, said frame being provided at the top with a cross-bar, which is recessed to receive the free ends of the clothes-supporting arms thus folded together, substantially as set forth. 7th. In combination with a fixed frame, a set of clothes-arms, a sliding support for the same, and anti-friction rollers arranged on each side thereof in double sets, operating at an angle to one another, as set forth.

No. 22,380. Bedstead and Wardrobe.

(*Couchette et Garde-Robe.*)

Albert F. R. Arndt, Detroit, Mich., U. S., 3rd September, 1885; 5 years.

Claim.—As an improved article of manufacture, a wardrobe having a bed A, with hinged legs C, and attached to the inside of its back B, a shelf D and drawers E, arranged in the said wardrobe, which is also provided with doors F, having hooks *e*, and a curtain G, arranged between the doors, as specified.

No. 22,381. Calculator. (*Calculateur.*)

Jules V. Charpentier, New Orleans, La., U. S., 3rd September, 1885; 5 years.

Claim.—1st. The combination of the box A, having the holes B, the two rollers C journalled in the said holes, the screw D mounted as a belt on the said rollers, and having the transverse aperture J spaced along its edge, and the spaces marked indicating different units of time and the tabulated cards J spaced to correspond with the spaces on the screen D, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the box A, having the holes B in its side-edges, and the slit G in the edge, in a plane tangent to the front sides of the said rollers, the screen D fitted around the rollers, and the tabulated cards F, of a length to be held between the screw and the rollers, substantially as and for the purpose hereinbefore set forth. 3rd. The combination of the box A, the rollers C journalled therein, the screen D mounted as a belt on the roller, and having the transverse aperture J and the cards F placed behind the screen, each card having dates marked in columns and horizontal lines on it, and the screen marked at the edge of the said aperture, in column with the dates II, on the cards, the markings on the screen and on the card behind it bearing an arbitrary ratio to each other, substantially as shown and described, whereby any number on the screen being added to a date in the left hand column of the card, the sum of the addition is indicated on the card on the same horizontal line, and in the column of the added number on the screen.

No. 22,382. Plane Bit. (*Fer de Varlope.*)

William F. Kellott, Chicago, Ill., U. S., 3rd September, 1885; 5 years.

Claim.—1st. The combination, with the base-plate having the thin steel chisel adjustably connected therewith, the adjacent surfaces of the two being plane surfaces of the cap connected with the base plate by a clamp-screw to clamp the chisel rigidly against the back plate, substantially as and for the purposes specified. 2nd. The combination with the slotted base-plate, of a chisel connected therewith by a clamp screw at its upper end, whereby the chisel may be adjusted longitudinally on the base-plate and of the cap connected with the base plate by a clamp screw whereby the chisel may be firmly clamped against the base-plate when so adjusted substantially as and for the purposes specified. 3rd. The combination with the base A, chisel C, and cap B, provided with the slots *o*, *n*, *s*, and holes *r*, *w*, of the set-screw E, and set-screw D, and nut G, substantially as and for the purposes set forth. 4th. The combination, with the base A, of the cap K, substantially as and for the purposes set forth.

No. 22,383. Harrow. (*Herse.*)

Louis Deloria, Chautauqua, Ks., U. S., 3rd September, 1885; 5 years.

Claim.—1st. In a harrow, the combination of two side frames coupled to each other and provided with a draft attachment, said frames enclosing harrow-sections, each pivotally secured at two opposite corners to the side frame in which it is located, substantially as shown, and for the purpose set forth. 3rd. The combination in a harrow, of the rectangular frames A, *A*, having hollow squares formed therein, said frames being coupled to each other, and provided with a draft attachment, and frames D pivotally secured at two opposite corners, within said hollow squares, as shown, and connected on one side to the side bars by connections *d*, substantially as shown, and for the purpose set forth.

No. 22,384. Seeding Machine. (*Semoir.*)

George W. W. Billings, Oshawa, Ont., 3rd September, 1885; 5 years.

Claim.—1st. The combination in a seeding machine, of the draft rollers B, C, geared together, and draft chain F, secured at the end to the middle of said rollers, to wind and unwind thereon by the power of the draft hitches to the chain, for alignment of the drill hoes, and adjusting them zig-zag, as set forth. 2nd. The combination with the shell J, of a seed distributor of the cut-off L, provided with ring M, and hook M_r, and the feed wheel N, having a boss journal N_r, whereby the cut-off is loosely connected to the feed wheel, and follows its adjustment on the distributor rod, as and for the purpose set forth. 3rd. In a seeding machine, having seed distributors secured to the bottom of the hopper, a divided distributor rod, passing through the distributor, and separately geared to the ground wheels,