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INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years. The term of years for which the fees have been paid, is given after the date of the patent.

No. 19,500. Grain Cleaning Machine.
(Machine à Nettoyer les Grains.)

Frank E. Curtis, and William H. Eilfrich, Minneapolis, Minn., U.S., 31st May, 1884; 5 years.
Claim.—1st. In a grain cleaning machine, a series of rotating shafts carrying beaters, in combination with an inclosing investment substantially struck from the axes of the rotating shafts, for the purpose set forth. 2nd. The casing A, provided with the section fan G and discharge pipe H, and proper gearing to drive said fan, in combination with the curvilinear shell E of less cross sectional dimension than casing A, and a series of shafts B, C, D, geared to revolve in opposite directions, and carrying interlapping beaters I, all constructed arranged and operated as set forth.

No. 19,501. Burglar Alarm Catch.
(Détente de Sonnerie d'Alarme.)

Robert G. Vassar, New York, N.Y., U.S., 7th June, 1884; 15 years.
Claim.—1st. The combination, with the freely movable catch bar adapted to rock upon either of two fulcrums on the same side of the bar, of an alarm mechanism and detent therefor, said detent being connected with the bar between its two fulcrums so that a movement of the bar on either fulcrum will release the alarm. 2nd. The combination, with the upper and lower sashes in a window, of the catch bar mounted on one sash and engaging with the other, and an alarm whose detent is controlled by said bar, all arranged as set forth, so that the alarm will be released by a movement of either sash up or down. 3rd. The combination of base plate A, the bar B sliding thereon, the plate G or other suitable device, adapted to move freely in a plane, at right angles to the sliding movement of the bar, and resting on said bar over the plate so as to be moved in the same direction by the tilting of the bar B in either direction, and a detent for an alarm mechanism released by movement of the plate G, and for the purpose described. 4th. The combination of the sliding bar B, the transversely movable plate G, the detent pin E and the perforated catch bar B, of an alarm movement. 5th. The combination of the wheel G₂, of a pin L, plate or support G for the alarm detent, and the combination thereof by said detent, as set forth. 6th. The combination of the plate A, spring K, notched sliding bar B adapted to work freely in a transverse direction on a pin L, and an alarm controlled by a connection with the bar B at a portion thereof, which moves upon pin L when the projecting end of the bar rises or falls above or below its normal plane. 7th. The combination, with the sliding bar that it may rock on either of two pivotal points on the same side of the bar, and an alarm controlled by connection with the bar at a portion thereof, which moves in the same direction irrespective of the direction in which its projecting end moves when the bar rocks.

No. 19,502. Rope-Holder or Clamp.
(Serre-Corde ou Coulisse.)

Charles Littlefield, Vinalhaven, Me., U.S., 7th June, 1884; 5 years.
Claim.—1st. The herein-described rope-holder or clamp consisting of the connected jaws or plates A, A₁, the jaw A being formed with an inclined slot B adapted to cause the jaws to grasp the rope, as set

forth. 2nd. The herein-described rope-holder or clamp consisting of jaw A₁ in combination with the jaw A, formed with an inclined slot B, side plate or plates connecting the jaw A with the jaw A and bolts G, G₁, as set forth. 3rd. The combination, with the jaws A, A₁, plate F, bolts G, G₁ and inclined slot B, of the hooked plate F₁ adapted to fit upon the double-headed bolt G₁, as set forth.

No. 19,503. Cultivator. *(Cultivateur.)*

Harmon L. Smith, Watkins, N.Y., U.S., 7th June, 1884; 5 years.
Claim.—1st. As an improvement in cultivators, the combination, with the adjustable side beams A, A, carrying the cultivator blades and connected together at their front ends by a pin or bolt, of the intermediate central beam J fulcrumed on the said bolt down between the side beams, so that it works between the same, and provided with the cultivator-blade and front wheels or roller, as set forth. 2nd. As an improvement in cultivators, the combination of the adjustable side beams A, A having the slots in their front ends, by which they are capable of lateral adjustment, the cross-pin or bolt connecting the said beams A, A and passing through the said slots, the central intermediate beam fulcrumed between the beams on the said cross-pin or bolt and carrying the front wheel or roller, and means for retaining the central beam in the position to which it has been adjusted, as set forth.

No. 19,504. Fluid Burning Lamp.
(Lampe à Fluide.)

Marmaduke Mathews, Toronto Ont., 7th June, 1884; 5 years.
Claim.—1st. A wick-tube B having a burner A fitted to it and connected to the oil reservoir, in combination with a vessel E, arranged to contain brine or other fluid heavier than oil, and provided with a float F supported in fluid within a lamp body D, and arranged to keep the oil at about an equal distance from the burner, substantially as and for the purpose specified. 2nd. A wick-tube B, connected to the oil reservoir C, communicating with a compressible vessel E, in combination with a float F, contained within the body D and arranged by floatation to compress the vessel E, substantially as and for the purpose specified.

No. 19,505. Knife or Cutter for Wood Working Machine. *(Couteau ou Ciseau de Machine à Travailler le Bois.)*

Samuel J. Shimer, Milton, Pa., U.S., 7th June 1884; 5 years.
Claim.—1st. A knife or cutter for wood-working machines consisting of a steel body having, rigidly secured to one of its faces, a coating of soft metal, substantially as and for the purpose set forth. 2nd. A knife or cutter for wood-working machines consisting of a steel body having soldered or otherwise rigidly secured thereto, a thin layer or coating of soft metal, substantially as and for the purpose set forth.

No. 19,506. Sewing Machine. *(Machine à Coudre.)*

Charles Culley, Toronto, Ont., 7th June, 1884; 5 years.
Claim.—1st. In a sewing machine, the needle-wheel F containing a circular needle G and pivoted, as shown, on the bearing plate or head-block N, shown and described. 2nd. In a sewing machine, the combination of the needle-wheel F and needle G, with the vertically moving shuttle E, as shown and for the purpose specified. 3rd. In a sewing machine, the side presser 9 advancing at the same time that the needle passes through the sole, and retiring when the feed approaches the sole for the purpose of moving it, as shown and for the purpose specified. 4th. In a sewing machine, the feed P, in combination with the presser wheel P, needle G and side presser Q, and acting substantially as shown and for the purpose specified.

No. 19,507. Machine for Planting Corn.
(Machine pour Semer le Blé d'Inde.)

John M. Warner, Hamilton, Ont., 7th June, 1884; 5 years.
Claim.—1st. The inclined plane in the rod, for the purpose of