the said levers by means of the keys, as explained. 2nd. The com-bation of the mutes, their operative levers and the series of oblique figers and their depressing wires, all being arranged and adapted substantially to operate as set ferth.

No. 18,783. Means of Preventing the Withdrawal of Draw-Bars for Coupling Cars. (Moyens d'Empêcher la Re-traite des Barres d'Attelage en Accouplant les Chars.)

George J. Johnson and Eugene H. Thomas, LaCrosse, Wis., U. S., 5th March, 1884; 5 years.

at arch, 1884; 5 years.

Claim.—In a draw-bar for connecting cars together, the sills A, A

Laving the lugs C, C, the pieces I, I¹ connected by straps or plates

11. forming rectangular slots, in combination with the sliding

12. forming rectangular slots, in combination with the sliding

13. forming rectangular slots, in combination with the sliding

14. forming rectangular slots, in combination with the sliding

15. forming rectangular slots, in combination with the sliding

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No. 18,784. Composition of Matter for the Manufacture of Soft Soap. (Composition de Mutières pour la Fabrication du Savon Mou.)

Alexander Lafontaine, St. Albans, Vt., U.S., 6th March, 1884; 5

Claim.—The compound composed of common soap, salsoda, starch, salammonia, glycerine and cantharides, in the proportions and in the manner set forth, to produce a cheap washing and erasive soap.

No. 18,785. Detachable Steps for Waggons.

(Marchepied Mobile pour Wagons)

James Hallett, Hannibal. Mo., U. S., 6th March, 1884; 5 years. Claim.—The herein described detachable and adjustable wagon-tap. The herein described detachable and proceed the shank and step formed in one piece, the shank actual shoulders H, and the supporting or attaching plate having batched recesses D and F, all combined, arranged and operating that antially as shown and for the purposes set forth.

No. 18,786. Combined Easy Chair and Sofa Bed. (Bergère et Lit-Canapé Combinés.)

Bed. (Bergère et Lit-Canapé Combinés.)

Wesley P. Bean, San Francisco, Cal., U.S., 6th March, 1884; 5 years.

Claim.—1st. In combined easy-chair and sofa bed, the lever pivot rots provided of the pivot plate N, the lever-arm O, the journal Ot, the combined easy-chair and sofa bed, the lever pivot rots provided to the pivot plate N, the lever-arm O, the journal Ot, the combination with the back F and projection or hook piece F; and pholes in the pivot plate N, the purpose of securing the back and seat et forth position, constructed substantially as and for the purposes composed of the pivot plate N, the lever arm O, the journal Ot, the last provided of the pivot plate N, the lever arm O, the journal Ot, the last p, the head P pivoted on the bolt T, in combination with the last p, having the spring S2 and step molding X, and the seat H the last p, having the spring S2 and step molding X, and the seat H the last p, having the spring S2 and step molding X, and the seat H the last p, having the spring S2 and step molding X, and the seat H the last p, having the spring S2 and step molding X, and the seat H the last p, having the spring S2 and step molding X, and the seat H the last p, having the spring S2 and step molding X, and the pivot bolt T, for the suppose of forming an elastic spring bed, constructed and operated suppose of forming an elastic spring bed, constructed and operated substantially as and for the purposes set forth. 4th. In combined the sad-piece K, constructed and operated for the purpose of adjusting the purpose of the purpose of adjusting the project of the set of the purpose set forth. 5th. In combined easy-chair and sofa-bed, the last p, the last p, and depressions N2, C5, D3 and E3, for the purpose of the purposes set forth. 5th. In combined easy-chair and sofa-bed, the last p, the last p, and depressed substantially as and for the purpose set forth. 5th. In combined easy-chair and sofa-bed, the last p, the last p, with pivot before the purpose of locking and supporting the leaf J, contain the Wesley P. Bean, San Francisco, Cal., U.S., 6th March, 1884; 5 years.

No. 18,787. Machine for Planting Corn and

Claim.—The vibrating slides A and F, in connection with the spring A, and the mode of operation of the cord or string d, attached to slide slide of passage J.

Squaner.) No. 18,788. Washboard. (Planche à Savonner.)

Charles Boeckh, Toronto, Ont., 6th March, 1884; 5 years. Claim.—1st. A wash-board having its rubbing surface pivoted within a frame, so that the rubbing surface can be reversed without
frame, so that the rubbing surface can be reversed without
structed wash-board. 2nd. A wash-board having on one side a
late wash-board. 2nd. A wash-board having on one side a
late of the structure of having pivoted within it a back F holding the rubbing surfaces D and E, in combination with the catch O arranged to hold the pivoted back in position, substantially as and for the purpose specified.

No. 18,789. Street Lamp. (Réverbère.)

Leonard Henkle, Rochester, N.Y., U.S., 6th March, 1884; 5 years.

Leonard Henkle, Rochester, N.Y., U.S., 6th March, 1884; 5 years.

Claim.—Ist. A lamp having side pipes C, C1, through which air flows to supply the flame, said pipes opening at their respective upper or outer ends into a space covered or inclosed by a screen or perforated sheet I, substantially as shown and described. 2nd. A street lamp having side pipes C, C1, through which air flows to supply the flame, said pipes opening at their respective upper or outer ends into a space inclosed between the chimney of the lamp, and an outer perforated sheet or screen I, substantially as and for the purpose set forth. 3rd. A street lamp having side pipes C, C1, each having two opening n1, of at their respective upper or outer ends, one of said openings opening into a space covered or inclosed by a screen or perforated plate I, and the outer opening into the outer air, substantially as shown and described. 4th. The combination, in a street lamp, with the side pipes C, C1, of the screen I, horizontal plate p1 and vertical plates r1 crossing the openings or communications between the interior of said side pipes and screen, substantially as described and shown. 5th. The combination of the screen I and chimney d1 of a lamp, enclosing an air-space V1 and an oil chamber D, with air supply pipes C, C1 leading from said space V1 through the oil chamber, substantially as and for the purpose set forth. 6th. In a lamp, the air chamber F around the burner, through which to allow the air to flow to the flame, substantially as shown. 7th. A lamp having an air chamber B beneath the oil chamber, and an air chamber F above the oil chamber, with tubes or passages g, for the air communicating between said air chambers passing through the oil chamber, substantially as specified. 8th. The combination of the side pipes C, C1 of a lamp, with the air chamber B and F and oil chamber D provided with tube g for the air, connecting said air chambers, substantially as set forth. 9th. In a street lamp, the combination of the rests v and r, with the tr

No. 18,790. Car-Coupler. (Accouplage de Wagons.)

Albert A. Dailey, Wilson, N. Y., U. S., 6th March, 1884; 5 years.

Claim—1st. The draw-head having elongated recess, and provided with automatic tumbler and coupling-pin having projection for engagement therewith, substantially as and for the purpose set forth. 2nd. The transverse horizontal lifter and the vertical lifter, connecting with each other and the coupling-pin, substantially as and for the purpose set forth. 3rd. The rock-shaft having looking cam or trigger, substantially as and for the purpose set forth.

No. 18,791. Car-Coupling. (Accouplage de Wagons.)

homas C. Jones, Woodland, Cal., U. S., 6th March, 1884; 5 years.

Thomas C. Jones, Woodland, Cal., U. S., 6th March, 1884; 5 years. Claim.—1st. A car-coupling constructed, substantially as herein shown and described, and consisting of the draw-head A, the U-shaped draw-bar D, the spring-pressed coupling-hook J, the bow and yoke N O and a mechanism for raising the coupling-hook, as set forth. 2nd. In a car-coupling, the combination, with the draw-head A, the U-shaped draw-bar D, the spring coupling-hook J, the bow N and the yoke O, of the lifting bar Q and the bar Y, substantially as shown and described. 3rd. In a car-coupling, the combination, with the draw-head A and the U-shaped draw-bar D, of the coupling-hook J provided with a recess at its rear end, spring M, bow N, yoke O, draw-rod E, cross-bars F, slides G, end springs H, substantially as shown and described. 4th. In a car-coupling, the combination, with the draw-head A, the U-shaped draw-bar D, the coupling-hook J, the bow N and yoke O, of the lifting-bar Q, the lever T, the catch-bar X, keeper W, slotted bar Y and foot-lever b, substantially as shown and described.

No. 18,792. Electric Railway Signal.

(Signal Electrique de Chemin de Fer.)

John P. Rogers, Elmsdale, N.S., and James C. Upham, North Sydney, C. B., 6th March, 1884; 5 years.

Claim.—1st. The paddle-wheel contacts f, having sharp edges, in combination with the supporting frames S hinged at f1, and insulated from the upper frames R, as shown and described. 2nd. The combination, on locomotives, with the instruments W, W2 and circuit closers f, of the lever L connected to the axle segments n, p and connections n, p, substantially as described, for bringing these instruments in direct connection with the axle, as set forth.

No. 18,793. Lubricator for Steam Cylinders and their Valves. (Graisseur pour Cylindres de Vapeur et leurs Soupapes.)

Allen W. Swift, Elmira, N. Y., U. S., 6th March, 1883; 5 years.

Claim.—1st. The combination, with a steam cylinder and its valve, of a steam-duct communicating therewith, and a partly choked throat, and a lubricant cup having its delivery connected with said duct at a point between the choked throat and steam receiving end