

No. 23,783. Milk Cooler. (Garde-Lait.)

Horatio Arthur, Lowville, N.Y., U.S., 8th April, 1886; 5 years.

Claim.—In the milk-cooler, the combination of the cooling tank A, the exit pipe F, the cylindrical can C with its discharge tube H, cover N, the stopple J, the trough V, constructed, arranged and operating in the manner and for the purposes set forth.

No. 23,784. Churn. (Baratte.)

Edward S. Cassan, Campbellford, Ont., 8th April, 1886; 5 years.

Claim.—The combination, in a churn dasher, of the shaft A having the collar a, and a socket or cup formed in the shaft, with the wings c united in pairs by the hubs d, the sleeves e, and the nut f engaging in a screw-thread formed on the shaft A, as herein shown and described. 2nd. The combination of the above described churn-dasher with the base b, secured to the bottom of a churn, and having the pivot B formed on it, and projecting upward into a socket or cup formed in the shaft of the dasher.

No. 23,785. Grinding Mill. (Moulin à Moudre.)

William R. Eynon, Cleveland, Ohio, U.S., 8th April, 1886; 5 years.

Claim.—1st. A grinding mill comprising the concave A having vertical corrugations, the cylinder B having both longitudinal and annular corrugations, and cylinders C and D having both longitudinal and annular corrugations, all arranged and operating substantially as shown and described. 2nd. A grinding mill comprising the concave A, having the hood A', and vertical corrugations, the cylinder B having both annular and longitudinal corrugations, and the cylinders C and D having both annular and longitudinal corrugations, all arranged and operating substantially as shown and described.

No. 23,786. Heating and Ventilating Apparatus. (Appareil de Chauffage et de Ventilation.)

George W. LeVin, Chicago, Ill., U.S., 8th April, 1886; 5 years.

Claim.—1st. The combination, with the fire-space A, of an air-heating chamber or reservoir fixedly arranged within, or contiguous thereto, provided with an air-induction space 3, or one or more supply parts C, an induction pipe or conveyor E provided with one or more valves or dampers, for controlling the volume and direction of discharge of the heated air passing from said chamber or reservoir, and an exhaust opening e, and one or more distributing and ventilating ports, all arranged and operating substantially as and for the purpose described. 2nd. The combination, with the fire-space A, of an air-heating chamber or reservoir fixedly arranged therein or contiguous thereto, an induction pipe or conveyor E provided with an exhaust opening e, and one or more valves or dampers, for controlling the volume and direction of discharge of the heated air passing from said chamber or reservoir, one or more distributing and ventilating ports, and one or more induction or ventilating ports F, all arranged and operating substantially as and for the purpose described. 3rd. The combination, with the fire-space A, of an air-heating chamber or reservoir fixedly arranged therein, or contiguous thereto, two or more induction pipes or conveyors E, each provided with an exhaust opening e, one or more valves or dampers, for controlling the volume and direction of discharge of the heated air passing from said chamber or reservoir, and one or more distributing and ventilating ports, all arranged and operating substantially as and for the purpose described. 4th. The combination, with the fire-space A, and an air-heating chamber or reservoir fixedly arranged therein, or contiguous thereto, provided with suitable air-supplying induction and distributing devices, of one or more induction or ventilating ports P, substantially as and for the purpose described. 5th. The combination, with the fire-space A, of an air-heating chamber or reservoir fixedly arranged therein, or contiguous thereto, one or more induction pipes or conveyors E, each provided with a terminal or exhaust opening e, and one or more valves or dampers, for controlling the volume and direction of discharge of the heated air passing from distributing and ventilating ports, each provided with a suitable register H, substantially as and for the purpose described. 6th. The combination, with the fire-space A, and an air-heating chamber or reservoir fixedly arranged therein, or contiguous thereto, provided with suitable air-conveying and distributing devices, of the air conveyor D, substantially as and for the purpose described. 7th. The combination, with the fire-space A, and the chamber or air-heating reservoir fixedly arranged therein, or contiguous thereto, provided with suitable air-conveying and distributing devices, of the cold-air supply-port C3, substantially as and for the purpose described. 8th. The combination, with the fire-space A, and the air-heating chamber or reservoir fixedly arranged therein, or contiguous thereto, of the air conveyor D, and the connecting flue C2, substantially as and for the purpose described. 9th. The combination, with the fire-space A, and an air-heating chamber or reservoir fixedly arranged therein, or contiguous thereto, provided with the induction space 3, or other means of air supply from interior of the compartment within which said chamber or reservoir is located, and with suitable air-conveying and distributing devices, of an air conveyor D, or supply port C3, substantially as and for the purpose described. 10th. The combination, with the fire-space A, and an air conveyor D, or supply port C3, of an air-heating chamber or reservoir fixedly arranged within, or contiguous to said fire-space, provided with suitable air-conveying and distributing devices and a valve or damper A, substantially as and for the purpose described. 11th. The combination, with the fire-space A, of an air-heating chamber or reservoir C, having the extended portion c, and induction space 3, and provided with suitable air-conveying and distributing devices, and a damper or register v, for regulating the volume of air admitted to said chamber or reservoir through said induction space, substantially as and for the purpose described. 12th. The combination, with the fire-space A, of an air-heating chamber or reservoir fixedly arranged therein, or contiguous thereto, provided with suitable air conveying and distributing devices, an air conveyor D, and a furnace W, all arranged and operating substantially as and for the purpose described.

No. 23,787. Nut Lock. (Serre-Ecrou.)

Percy Webb, Montreal, Que., 8th April, 1886; 5 years.

Claim.—The combination, with the bolt C, and nut D, of the gravitating block E sleeved on the nut, and spring F sleeved on the bolt and under the nut, and turned over upon the block, whereby the heavier side of the block will offer resistance to the nut being turned, and the spring retain the block on the nut, as set forth.

No. 23,788. Rein-Holder. (Porte-Quide.)

Thomas O. Butler, Chicago, Ill., U.S., 8th April, 1886; 5 years.

Claim.—In line supports, the round-bored standard A provided with square-holed cap B, the adjusting screw F holding the cap on the standard, and the forked plate H holding the set-screw in place, in combination with the square shank C, and line supports D, D', E, as and for the purpose specified.

No. 23,789. Car-Coupler. (Attelage de Chars.)

Daniel J. Summers, Waynesborough, Penn., U. S., 8th April, 1886; 5 years.

Claim.—1st. In a car-coupler, the combination, with a two-branch draw-head and a cross-pin loosely secured in the branches, of a vertically and laterally swinging coupling hook, a spring-actuated buffer and a sliding hook connected with the buffer, and located in the same plane with and behind the coupling-hook, substantially as set forth. 2nd. In a car-coupling, the combination, with a two-branch draw-head and a cross-pin loosely secured in the branches, of a coupling-hook consisting of a vertically swinging section on the cross pin between the branches of the draw-head, and a laterally swinging section pivotally secured in the free end of the aforesaid section, substantially as set forth. 3rd. In a car-coupling, the combination, with the two-branch draw-head and the vertically swinging coupling-hook secured between the branches, of the spring-actuated double-headed buffer, adapted to slide in channels formed in the branches of the draw-head, and provided with a hook adapted to engage the shank of the coupling-hook and hold the same in a position for coupling, substantially as set forth. 4th. In a car-coupling, the combination, with the two-branch draw-head and the vertically swinging coupling-hook, of the spring actuated buffer adapted to lock and release the coupling-hook, and provided with guide-studs adapted to work in sockets in the draw-head and steady the sliding movement of the buffer, substantially as set forth. 5th. In a car-coupling, the combination, with the two-branch draw-head and the vertically swinging coupling-hook and formed integral with the latter, of a pair of jaws adapted for use with ordinary coupling links, substantially as set forth.

No. 23,790. Combined Brooch and Flower-Holder. (Broche Porte-Bouquet.)

John Duorn, Toronto, Ont., 9th April, 1886; 5 years.

Claim.—In a brooch, the combination, with the front A, of the back B so connected as to leave an open space between said front and back for holding flowers, substantially as described.

No. 23,791. Injector. (Injecteur.)

John Desmond, Detroit, Mich., U.S., 9th April, 1886; 5 years.

Claim.—1st. In an injector, the combination, with the enclosing case, of combining and discharge cones, made in one piece and provided with relief outlets to the overflow near the base c of the combining tube, substantially as described. 2nd. In an injector, the combination, with the enclosing case, of combining and discharging cones, made in one piece and provided with radial holes R near the base of the combining tube, said radial holes affording a relief upon all sides into the overflow chamber, substantially as described. 3rd. In an injector, the combination, with the enclosing case having the diaphragm partition J provided with a central opening, of combining and discharging cones, made in one piece and provided with the nozzles a, b, of the plug E having flanged bushing d, all arranged substantially as described. 4th. In an injector, the combination, of the main casting A having inlet and discharge openings, and lateral branches B, C, of a diaphragm plate forming a water inlet chamber at one end, and an overflow chamber at the other end, of a steam nozzle secured in the water chamber of combining and discharge cones, made in one piece and provided with relief passages R and S, of the plug E having the flanges bushing d, and of the overflow valve G, all arranged substantially as shown and described.

No. 23,792. Automatic Axle Oiler, (Graisseur Automatique d'Essieu.)

Joseph Blais, St. Charles, Que., 9th April, 1886; 5 years.

Reclame.—1o. La combinaison des ouvertures F and G, du collet C, du la vis E, tel que décrit. 2o. La combinaison des ouvertures F and G, du collet C, du la vis E, avec la boîte faite en pas de vis et le réservoir H, tel que ci-dessus écrit et pour les fins indiquées.

No. 23,793. Stove-Pipe and Elbow. (Tuyau et Coude de Tuyau de Poêle.)

Frances A. Estabrook, Parma, and Amelia E. Clark, Brockport (Assignees of John S. Brooks, Parma), N. Y., U. S., 19th April, 1886; 5 years.

Claim.—1st. As a new article of manufacture, a section of stove-pipe or elbow having its surface embossed with any suitable design, as set forth. 2nd. As a new article of manufacture, section of stove-pipe or elbow having its surface embossed with any suitable design, and provided with plain or ribbed ends to fit the adjoining sections of pipe, as set forth. 3rd. As a new article of manufacture, a section of stove-pipe or elbow having its surface embossed with any suitable design and the embossing polished or enamelled in any desired way, as set forth.