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INVENTIONS PATENTED.

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

No. 37,101. Refrigerator. (*Glacière.*)

John Outhet, Toronto, Ontario, Canada, 1st August, 1891; 5 years.

Claim.—1st. The combination of the slanting ceiling of the cooling room and the air passage H, regulated by the cap E, with springs and thumbscrews, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the slanting ceiling of the ice chamber and the opening at the top thereof, with a cap or cover regulated by springs and thumbscrews, substantially as and for the purpose hereinbefore set forth.

No. 37,102. Tool Chest. (*Coffre d'outils.*)

James Andrew Franklin, Wabash, Indiana, U.S.A., 1st August, 1891; 5 years.

Claim.—The combination of the tray, the disks, the perforated lugs secured to the disks, the hollow rollers fitted within the openings in said lugs and the securing screws inserted through said rollers into the ends of the tray, as set forth.

No. 37,103. Ear for Vessels. (*Oreille de vaisseau.*)

Joseph Naber, Jr., Collins, New York, U.S.A., 1st August, 1891; 5 years.

Claim.—1st. An ear for vessels, provided with a wire passing through the ear and forming stops on the inner and outer faces of the ear to engage the bail and its upturned end, substantially as described. 2nd. An ear for vessels having an opening and provided with the triangular wire arranged in the opening and extending on opposite sides of the ear and forming projections, and having its ends secured to the faces of the ear, substantially as described.

No. 37,104. Hydrocarbon Oil Vaporizer and Burner. (*Foyer à hydrocarbures.*)

George Botsford, New Haven, Connecticut, U. S. A., 1st August, 1891; 5 years.

Claim.—In a hydrocarbon oil vaporizer and burner, a generator constructed with vertical openings through it, a chamber in its upper side surrounding said openings, combined with a removable cover by which said chamber may be opened or closed, a conductor leading to said chamber for the supply of oil, and a pipe leading from said chamber above the natural level of the oil therein and run two or more times around the outside of the chamber and beneath the generator, the run of pipe beneath the generator perforated, all substantially as and for the purpose described.

No. 37,105. Machine for Soldering Cans.

(*Machine à souder les boîtes métalliques.*)

Robert Loggie, (assignee of Joseph Mazroll), both of Black Brook, New Brunswick, Canada, 1st August, 1891; 5 years.

Claim.—1st. In a can soldering machine, the combination with a disk mounted to turn and adapted to rotate the can, of a soldering iron adapted to engage the seam of the can and a receptacle containing molten solder and into which extends the said iron, substantially as shown and described. 2nd. In a can soldering machine, the combination with a disk mounted to turn and adapted to rotate the can, of a spider mounted to turn loosely and to swing and adapted to support the lower end of the can, and a soldering iron held in contact with molten solder and engaging the seam of the can, substantially as shown and described. 3rd. In a can soldering machine, the combination with a disk mounted to turn and adapted to rotate the can, of a spider mounted to turn loosely and to swing and adapted to support the lower end of the can, a soldering iron held in contact with molten solder and engaging the seam of the can, and means, substantially as described, for imparting a sliding movement to the said disk and at the same time swinging the said spider, substantially as shown and described. 4th. In a can soldering machine, the combination with a shaft mounted to turn, of segmental arms supported by the said shaft and adapted to support the can body, and a spider mounted to turn loosely in the said shaft and adapted to engage the lower head of the can, substantially as shown and described. 5th. In a can soldering machine, the combination with a shaft mounted to turn and to slide, and a flanged disk held on the said shaft and adapted to engage the upper end of the can, of a spider adapted to engage the lower end of the can, and a second shaft mounted to turn and in which the said spider is mounted to turn loosely, the shank or axle of the spider extending diametrically of the said second shaft, substantially as shown and described. 6th. In a can soldering machine, the combination with a shaft mounted to turn and to slide, and a flanged disk held on the said shaft and adapted to engage the upper end of the can, of a spider adapted to engage the lower end of the can, a second shaft mounted to turn and in which the said spider is mounted to turn loosely, the shank or axle of the spider extending diametrically of the said second shaft, and segmental arms projecting from the said second shaft to engage the periphery of the can body, substantially as shown and described. 7th. In a can soldering machine, the combination with a shaft mounted to turn and to slide, and a flanged disk held on the shaft and adapted to engage the upper end of the can, of a spider adapted to engage the lower end of the can, a second shaft mounted to turn and in which the said spider is mounted to turn loosely, the shank or axle of the spider extending diametrically of the said second shaft, segmental arms projecting from the said second shaft to engage the periphery of the can body, and intermediate mechanism connecting the said two shafts with each other in such a manner that when the first named shaft slides, the other is caused to turn, substantially as shown and described. 8th. In a can soldering machine, the combination with a shaft mounted to turn and to slide, and a disk supported thereon and adapted to engage the upper end of the can body of means, substantially as described for imparting a sliding motion to the said shaft, a second shaft mounted to turn and adapted to be actuated by the sliding of the first named shaft a spider mounted loosely in the said second shaft and adapted to engage the lower end of the can, and segmental arms projecting from the said second shaft and adapted to engage the periphery of the can body, substantially as shown and described. 9th. In a can soldering machine, the combination with a shaft mounted to turn and to slide, and a disk supported thereon and adapted to engage the upper end of the can body of means, substantially as described, for imparting a sliding motion to the said shaft, a second shaft mounted to turn and adapted to be actuated by the sliding of the first named shaft, a spider mounted loosely in the said second shaft and adapted to engage the lower end of the can, segmental arms projecting from the said second shaft and adapted to engage the periphery of the can body, and a segmental soldering iron having an inner sharpened edge adapted to engage the seam of the can and extending into molten solder, substantially as shown and described. 10th. The combination with a solder receptacle and a soldering iron in connection therewith, of a shaft provided with can supporting arms, a revoluble spider mounted in said shaft, a second shaft mounted to revolve and to slide and at right angles to the first shaft, and carrying a fixed disk, and means for rocking the spider carrying shaft and simultaneously sliding the disk shaft, substantially as shown and described.

No. 37,106. Car Coupler. (*Attelage de chars.*)

Amos Clinton Merritt, Allentown, New York, U.S.A., 4th August, 1891; 5 years.

Claim.—1st. In a car-coupling of the class described, a spring block and wedge combined, adapted to hold the coupling-link, a trip, springs adapted to hold the coupling-pin and to be pressed apart by said trip, a drop-link adapted to strike said trip as the cars come together, a prop adapted to hold said drop-link in a horizontal position, and means, substantially as described, for connecting said parts to the draw-head. 2nd. In a car-coupling of the class described, a standard fixed to the draw-head, a bar having springs with