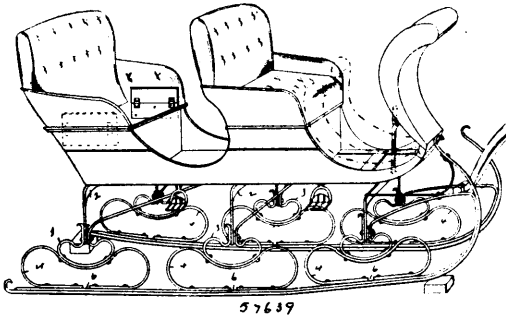
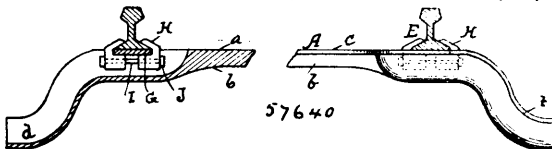


same, and the interposed friction rolls serving as a bearing for said knee. 3rd. In a sleigh, the combination with the spring



runner, the knee, the saddle for said knee secured to said spring runner, the oscillating connection between said saddle and knee, and the interposed friction rolls. 4th. The combination with the cutter and its shafts, of the adjustable connections between the same adapted to hold said shafts in alignment with the runners when in normal position, and to permit said shafts to be laterally adjustable offset, and when so offset to be turned at an angle with the line of the runners proportionate to the degree of lateral adjustment. 5th. The combination with the cutter and its shafts, of the adjacent cross bar upon each, one of which is forwardly convexed, and the clips for adjustably connecting said cross bars, whereby when the shafts are in normal position, their line of draft is coincident with the medial line of the cutter, but when offset laterally they are outturned at an angle with said medial line, in proportion to the curvature of said bar and the degree of lateral adjustment.

No. 57,640. Railway Tie. (Traverse de chemin de fer.)

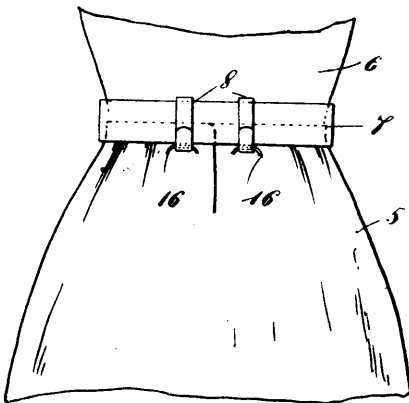


George F. Key, Ann Arbor, Michigan, U.S.A., 1st October, 1897; 6 years. (Filed 23rd September, 1897.)

Claim.—1st. A metallic railway tie consisting of a central connecting portion and end-rail-supporting portions of flat flanges or plates on the edges thereof, a central depressed trough-shaped portion between, and a rail supporting bridge joining the plates intermediate the trough, substantially as described. 3rd. A metallic railway tie consisting of a central connecting portion, end rail supports, horizontal at their inner ends, and downwardly and outwardly curved at their outer ends, comprising flat side plates, an intermediate depressed trough-shaped portion, and a rail-supporting bridge between the side plates, substantially as described. 3rd. The combination with the central connecting-section, having a top flat plate and a depending central rib, of end rail supports formed by a widening of the plate, such widened ends being curved downwardly and comprising the side plates, an intermediate trough and a bridge connecting the side plates, the end of the web of the connecting portion merging into the end of the trough portion, the whole being formed integral, substantially as described.

No. 57,641. Skirt Support and Belt Fastener.

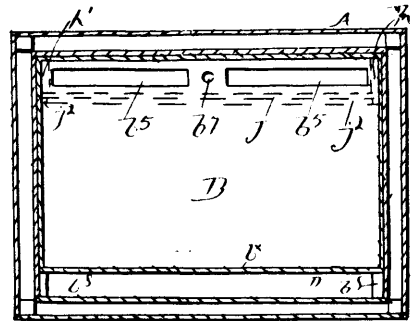
(Support de jupe et attache de ceinture.)



Blanche W. Emory, Cazenovia, New York, U.S.A., 1st October, 1897; 6 years. (Filed 22nd September, 1897.)

Claim.—1st. A skirt support and belt fastener constructed as herein described, and consisting of a long loop which opens downwardly, and one side of which is longer than the other, and bent upwardly to form a supplemental loop, substantially as described. 2nd. A skirt support and belt fastener constructed as herein described, and consisting of a long loop, which opens downwardly, and one side of which is longer than the other, and bent upwardly to form a supplemental loop, said supplemental loop being adapted to engage with a catch or fastening device secured to the skirt, substantially as shown and described.

No. 57,642. Refrigerator. (Refrigerateur.)



George J. Smith and Stillman M. Atherton, both of Burlington, Vermont, U.S.A., 1st October, 1897; 6 years. (Filed 22nd September, 1897.)

Claim.—1st. The combination with a refrigerator-casing and an ice-tank therein, of a flanged shield plate or tray fitted tightly to the bottom of said tank to form a space or chamber which is closed at all points except to the passage of cold air from the tank, a cold-air flue, and parts which establish communication through said closed space or chamber between the ice-tank and the cold-air flue, as and for the purposes described. 2nd. The combination with a refrigerator-casing, of an ice-tank fitted removably in said casing and provided near its lower part with cold-air-egress ports, a flanged shield plate or tray fitted tightly against the bottom of said ice-tank to form a space or chamber between itself and the tank, which space or chamber is closed all around except to the passage of air from the egress-ports of the tank, and the rear flange or wall of said tray provided with cold-air-egress ports, and a back flue-plate removably fastened to the casing, in the provision-chamber thereof, close up to the shield-plate, and forming with said casing a cold-air flue which communicates at its upper end with the cold-air-egress ports from the shield tray or plate, as and for the purposes described. 3rd. In a cleanable refrigerator, the combination with a casing, and an ice-tank having cold-air-egress ports in its bottom, of a drip-pan fitted closely to the bottom of said tank and provided with a perforated flange and with a baffle-plate, and a cold-air flue in the provision-chamber of said casing and connected through the perforated tray-flange with the ice-tank, as and for the purposes described. 4th. In a cleanable refrigerator, the combination with a casing of an ice-tank having cold-air ports in its bottom and a short waste connection, a drip-pan or tray provided with a perforated flange and with an inclined baffle-plate arranged close to the bottom of said tank to deflect drip-water and moisture into said tray without interfering with the circulation of cold-air from the ice-tank through the ports of the tray-flange, and a flue-plate fitted close to the bottom of the tray and adjacent to a wall of the casing to form a cold-air flue, as and for the purposes described. 5th. In a cleanable refrigerator, the combination with a casing having an ice-chamber, of a pair of cleats or posts adjacent to said chamber, a flue having off-standing flanges arranged to fit between said posts and said flanges provided with slots which open through the edges thereof, and studs or pins fixed to said posts and adapted to enter the slots in the flanges to draw the flue-plate close to the posts, as and for the purposes described. 6th. In a cleanable refrigerator, the combination with a casing open at its front end and having a permanent rail and a recess, an open front tank having a recessed seat in the bottom thereof, a removable locking-rail adapted to the permanent rail and the tank-seat, a drip-pan or tray, and a removable flue-plate attached within the provision-chamber and forming a cold-air flue that connects through the trap with the ice-tank chamber, as set forth.

No. 57,643. Sled Boat. (Vaisseau à patin.)

Gerard C. Scott, Lima, Ohio, U.S.A., 1st October, 1897; 6 years. (Filed 21st September, 1897.)

Claim.—1st. In a sled-boat, the combination of the body provided with self-propelling mechanism, substantially as described; with the pilot pivotally connected to the front end of the body, and mechanism for turning the pilot relatively to the body, for the purpose and substantially as described. 2nd. In a sled-boat, the com-