

Aug. 16, 1932.

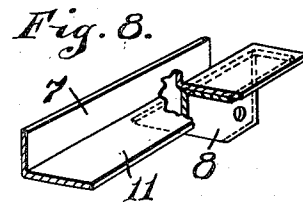
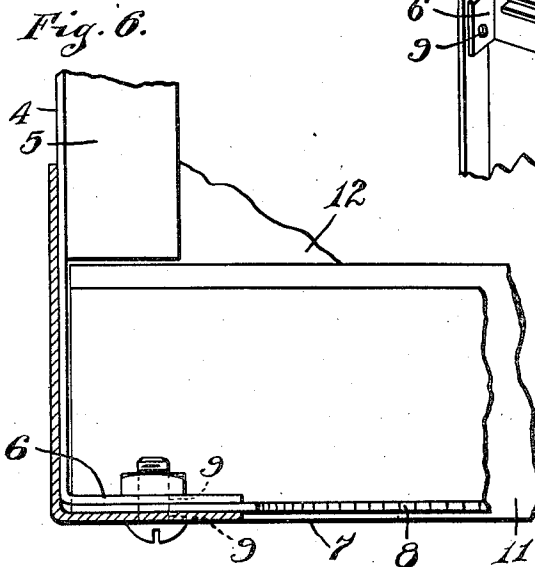
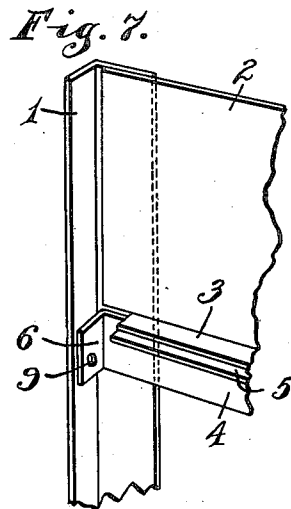
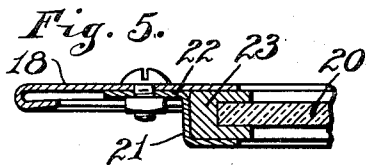
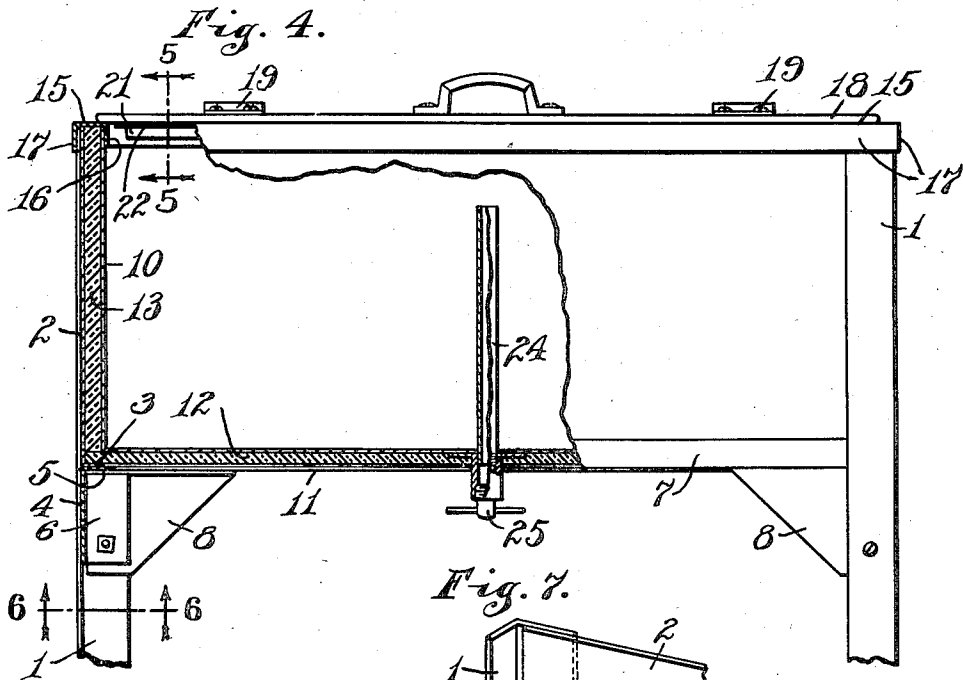
C. A. FRICK ET AL

1,871,784

DISPLAY REFRIGERATOR

Filed July 20, 1929

2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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DISPLAY REFRIGERATOR

Application filed July 20, 1929. Serial No. 379,734.

Our invention relates to improvements in display refrigerators and has for one of its objects to provide a refrigerator for storing perishable foods which may be cheaply manufactured and which may be readily assembled and dis-assembled to permit the same to be shipped in knocked down condition.

For the purpose of disclosing our invention, we have illustrated one embodiment thereof in the accompanying drawings, in which:

Fig. 1 is an end view of a refrigerator embodying our invention;

Fig. 2 is a plan view thereof;

Fig. 3 is an end view partially in section;

Fig. 4 is a side elevation partially in section;

Fig. 5 is a detailed section on the line 5—5 of Fig. 4;

Fig. 6 is a detailed section on the line 6—6 of Fig. 4;

Fig. 7 is a detail of one of the end members and

Fig. 8 is a detail of one of the longitudinal braces.

In the embodiment illustrated, I provide a pair of end members 9, each of which comprise two angles 1, which constitute the corner trims for the refrigerator and also constitute the legs for the refrigerator. Between the upper ends of the angles, I secure end panels 2 which fit behind the angles and are preferably permanently secured thereto by spot welding or the like. The lower edge of the panel is turned inwardly at 3 to provide an inturned flange. In addition to the panel 2, I also connect between the legs, a secondary panel member or brace 4, which in effect constitute an extension of the panel 2. This brace likewise is provided with an inturned flange 5 abutting the flange 3. This brace like the panel 2 is permanently secured between the legs by spot welding or otherwise, and each end of the brace is inturned to provide a lip 6 which lies parallel with, but is slightly spaced apart from one side of the angles.

The two end members thus constructed are connected together by means of side braces 7, one on each side which comprise angles

having one portion thereof lying horizontal and the other extending vertically. Gussets 8 are secured to the angles 7 at each end and these gussets fit between the lips 6 and the side of the angles 1 of the end members, being secured thereto by means of bolts extending through coinciding openings 9 in the lips and leg. With the side brace assembled and connecting the end members, a supporting frame is provided for a rectangular tub 10 which may be formed of galvanized sheet metal or any other desired material. This tub fits within the frame and rests on the flanges 3 of the end members and the inturned members 11 of the side angle braces. Covering the bottom of the tub is an insulating panel 12 which may be formed of any of the non-conducting materials, and is preferably in sheet form. This material is interposed between the bottom of the tub and the supporting flanges of the frame. Each side of the tub is likewise covered by an insulating sheet or panel 13. The end sheets lie between the ends of the tub and the end panels 2, and for protecting the side sheets, I provide side panels 14, which slip in position behind the angles 1 and are maintained in position by these angles.

A top frame fits over the upper edges of the tub and panels and comprises a rectangular frame formed of channels 15, the downwardly extending legs 16 and 17 of which take over the top edges of the tub and the top edges of the panel members, thereby rigidly restraining the parts in position. This top frame is provided with a cover which consists of a rectangular frame 18, hinged as at 19 to the top frame and supporting a glass top 20. The glass top 20 is supported in the frame by means of supporting angles 21 having lips 22 by which they may be bolted to the under side of this frame. Fitting within these angles are rubber channels 23, which receive the edges of the glass. This construction resiliently supports the glass so that it will not break under ordinary treatment and at the same time permits the ready insertion of a new glass in event of breakage, due to the fact that each of the angles may be removed.

For drainage purposes, I provide a drain

pipe 24 which extends through the bottom of the tub and extends upwardly into the tub. This drain pipe is closed at its bottom by a removable plug 25.

I claim as my invention:

1. In a dispensing refrigerator, a frame comprising a pair of end members each comprising a pair of angles forming end trims and legs, a panel permanently secured between said angles and having its bottom edges turned inwardly to form a flange, side bracing members formed of angles extending between said end members and detachably secured thereto, one side of said angles extending inwardly, an insulating panel resting on said bracing angles and inturned flanges, a refrigerator tub supported on said flanges and bracing angles and fitting within said frame, side panels fitting between said legs, insulating panels interposed between said side panels and the sides of said tub, a rectangular frame formed of channel members receiving the upper edges of said tub and frame and a hinged cover mounted on said rectangular frame for closing said tub.

2. In a dispensing refrigerator, a pair of end members, each comprising corner angles forming the corner trims and the legs, panels fitting between said legs and permanently secured thereto having their bottoms inturned to form an inturned flange, a secondary bracing panel extending between said legs abutting said first mentioned panel and having its top edge inturned, side braces formed of angle members extending between said end members and removably secured thereto and each comprising an angle, one side of the angle being disposed vertically and the other horizontally with the horizontal portion lying in the same plane as the inturned flanges of the end members, side panels fitting between said legs, a tub supported within said panels, a cover frame formed of channel members receiving the upper edges of said tub and frame, a secondary frame hingedly mounted on said cover frame having channel members surrounding the opening thereof and removably mounted on the under side, and a glass closure fitting within said removably mounted channel members.

3. In a dispensing refrigerator, a frame including a pair of end members, each comprising a pair of corner angles forming the corner trims and legs, end panels connectedly extending between said legs and having an inturned flange at its bottom edges, a secondary end panel extending between said legs and formed of an angle member having one side extending horizontally and abutting the inturned flange of the panel and the other side extending vertically, the ends of said vertical side panels being inturned to lie parallel with one of the sides of the legs, side braces comprising angle members extending between

said end members, one side of the end extending vertically and the other horizontally, gusset members secured to said side braces and fitting between the legs and the inturned ends of the end braces and removably secured thereto, a tub mounted within said frame and resting upon the flanges of said braces, side panels fitting between the legs, insulating material interposed between said side panels and the sides of the tub, insulating material covering the bottom of said tub, a rectangular frame formed of channel members secured over the top edges of the tub and panels, a secondary rectangular frame horizontally mounted on said first mentioned frame, and a glass cover removably secured in said hinged frame.

In witness whereof, we have hereunto set our hands at Muncie, Indiana, this 15th day of July, A. D. one thousand nine hundred and twenty nine.

CHESTER A. FRICK.
ROBERT E. BAKER.