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DOOR CONSTRUCTION FOR REFRIGERATOR CABINETS

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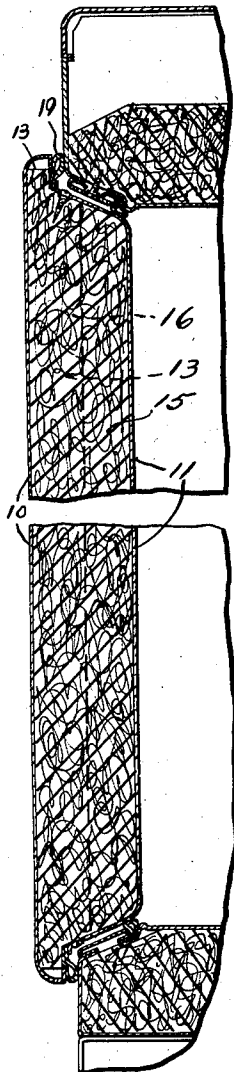


Fig. 1.

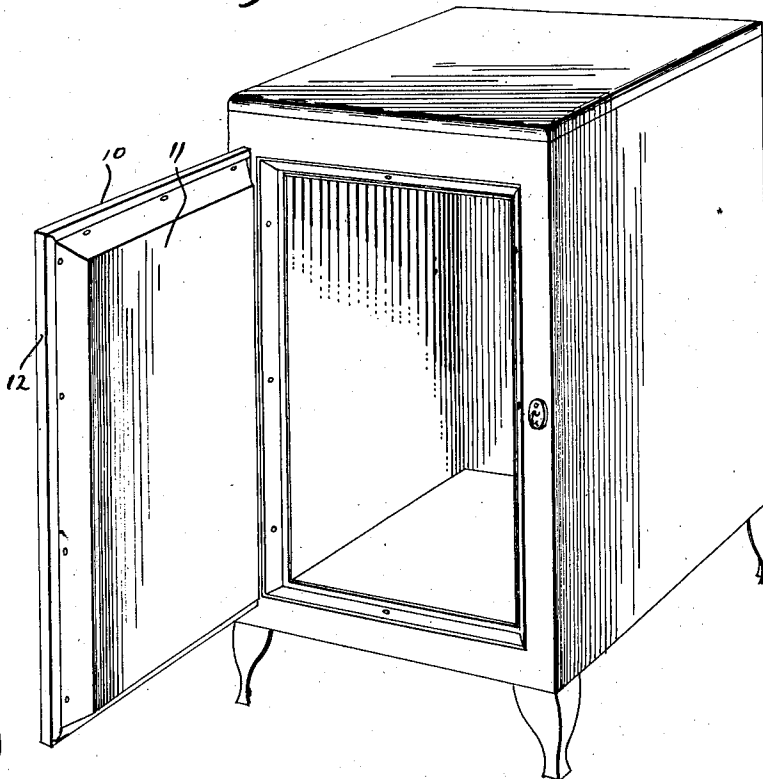
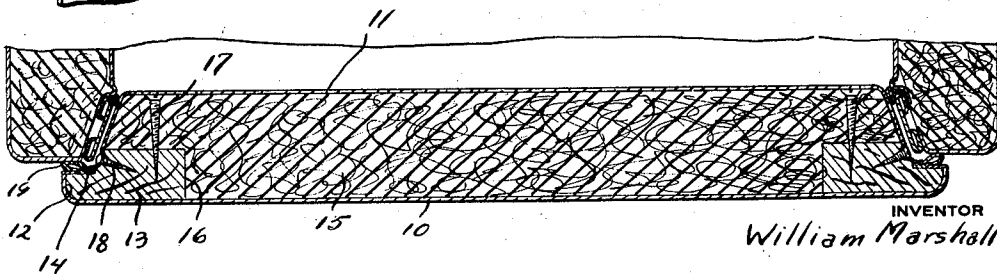


Fig. 3.

Fig. 2.



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DOOR CONSTRUCTION FOR REFRIGERATOR
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3 Claims. (Cl. 20—35)

This invention relates to refrigerators and more particularly to an improved construction of doors for refrigerator cabinets and the like.

One of the important objects of this invention is to provide a refrigerator cabinet door so constructed that it may be quickly and economically manufactured and assembled.

The several objects, advantages, and novel details of construction of this invention will be made more apparent as this description proceeds, especially when considered in connection with the accompanying drawing, wherein,

Figure 1 is a perspective view of a refrigerator cabinet having a door constructed in accordance with this invention;

Figure 2 is an enlarged transverse sectional view through the door; and

Figure 3 is an enlarged vertical sectional view through the door.

Referring now more particularly to the drawing wherein like reference characters indicate like parts, it will be noted that the door comprises metal panels 10 and 11, here shown as the outer and inner metal panels respectively of the door. The outer panel has a pair of its opposed edges, here shown as the vertical edges, formed with channels by shaping the edges of the panel 10 with open returned bent portions.

The reference character 13 indicates a pair of post members or strips, preferably of wood, which are associated with the vertical edges of the panel 10 by engaging snugly in the channels 12 with which this panel 10 is provided. As shown, each post member 13 is preferably formed with a rabbet 14, the reduced portions of the rabbet fitting in the channel 12. By means of this construction, the edges of the door are shaped to properly overlap the cabinet adjacent the door opening as will be apparent.

The reference character 15 indicates a panel of insulating material which is adapted to extend between the post members 13 and to be of substantially the same thickness as the door, so as to completely fill the space between the metal panels 10 and 11.

This insulating panel, if formed in one piece, is provided with rabbets or cut-away portions 16 at its vertical edges to accommodate the post members 13. The insulating panel is secured to the post members 13 by means of fastening elements 17.

After the insulating panel 15 has been thus assembled, the other metal panel 11 is secured in place and fastened to the assembly by means of fastening elements 18 which also engage the post members 13. With the outer panel in place the fastening elements 18 are concealed.

Such gaskets or weather-strips 19 as are necessary may be associated with the structure in the

manner illustrated herein, or in any other suitable way.

From the foregoing it will be apparent that the door may be readily assembled because the post members or strips 13 are first assembled with the outer panel 10 by being snugly engaged in the channels 12 thereof, and these post members then provide means for subsequently attaching insulating panel 15 and the inner panel 11. No framing is required as the insulating material 15 extends to the extreme top and bottom edges of the door.

Obvious modifications may suggest themselves to those skilled in this art and to this end reservation is made to make such changes as may come within the purview of the accompanying claims.

What I claim as my invention is:

1. A refrigerator door comprising inner and outer spaced metal panels, a one piece insulating slab extending the full width and depth of the door and having vertical recessed portions along opposite vertical edges thereof, a pair of pillars housed in said recessed portions and having angularly related inner faces thereof overlapped by said slab, and means concealed by said panels for fastening together said slab and pillars to form a self-sustaining wall structure between said panels for supporting the same.

2. A refrigerator door comprising inner and outer spaced metal panels, a one piece insulating slab extending the full width and depth of the door and having vertical recessed portions along opposite vertical edges thereof, a pair of pillars housed in said recessed portions and having angularly related inner faces thereof overlapped by said slab, and means concealed by said panels for fastening together said slab and pillars to form a self-sustaining wall structure between said panels for supporting the same, one of said panels being fastened directly to said pillars at the jamb faces of the door.

3. A refrigerator door comprising inner and outer spaced metal panels, a one piece insulating slab extending the full width and depth of the door and having vertical recessed portions along opposite vertical edges thereof, a pair of pillars housed in said recessed portions and having angularly related inner faces thereof overlapped by said slab, and means concealed by said panels for fastening together said slab and pillars to form a self-sustaining wall structure between said panels for supporting the same, one of said panels being fastened directly to said pillars at the jamb faces of the door, and the other panel having return bent edge portions forming channels to receive projecting edge portions of the pillars at the jamb faces of the door.

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