

Aug. 21, 1934.

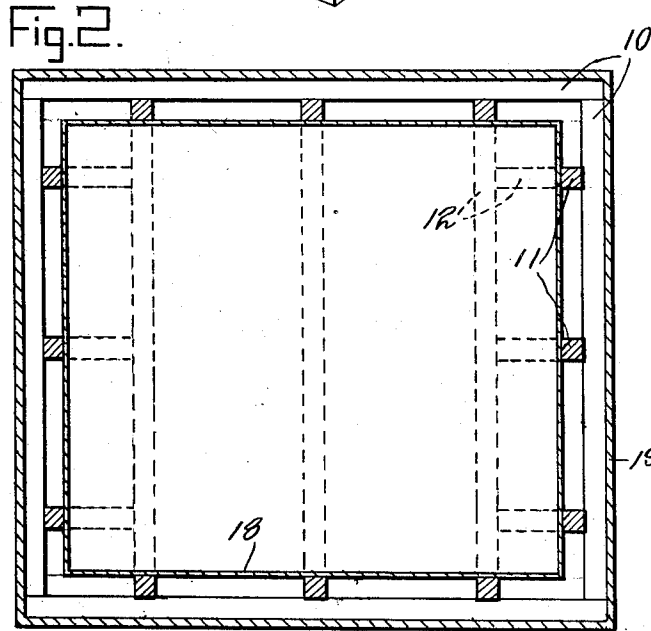
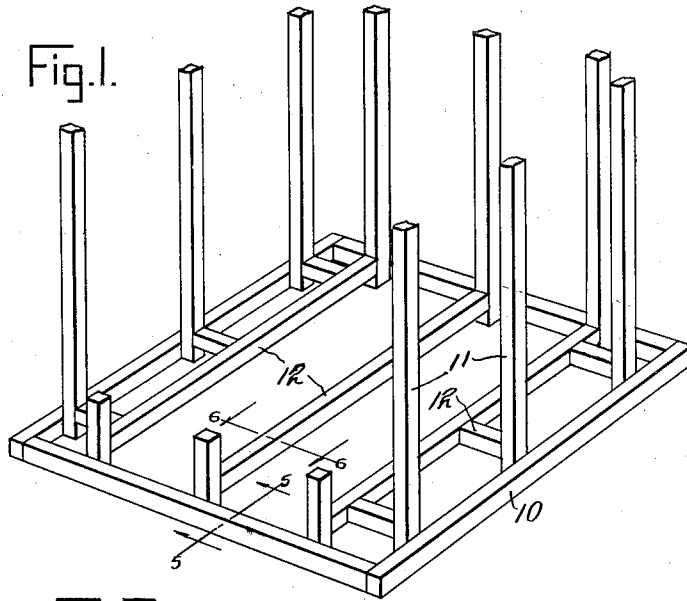
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1,971,002

REFRIGERATOR FRAME

Filed Feb. 10, 1933

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

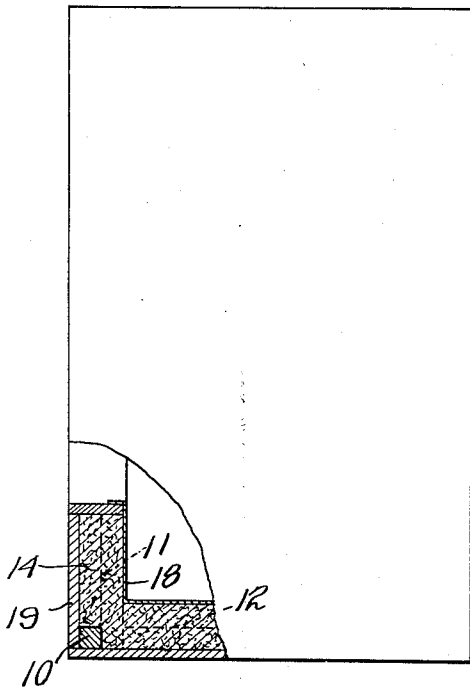


Fig. 3.

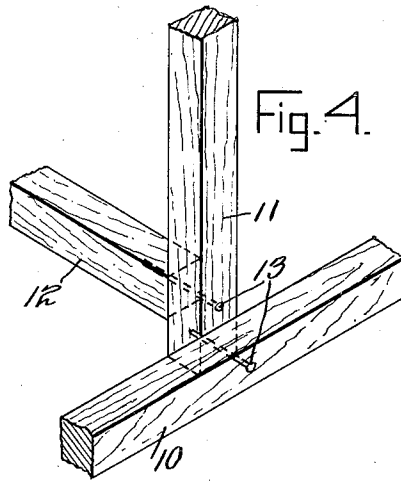


Fig. 4.

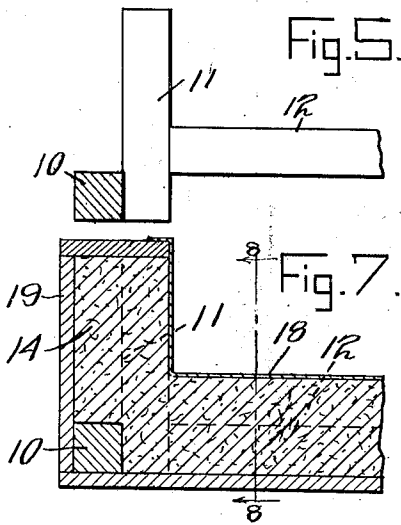


Fig. 5.

Fig. 7.

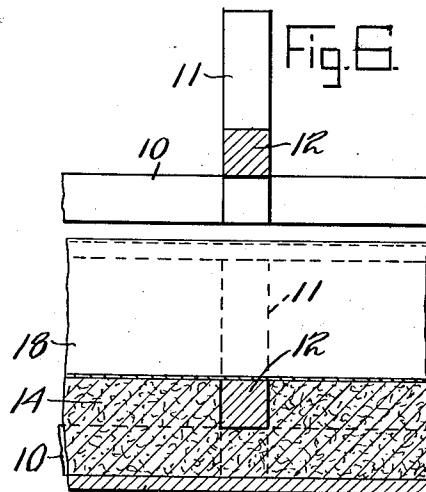


Fig. 6.

Fig. 8/9

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UNITED STATES PATENT OFFICE

1,971,002

REFRIGERATOR FRAME

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Application February 10, 1933, Serial No. 656,181

2 Claims. (Cl. 220—9)

This invention relates to refrigerator cabinets and particularly to the frame and the insulating structure of the cabinet.

An object is to provide better heat insulation for such cabinets. As a means to this end one purpose is to provide new and improved frame structure by which better heat insulation is secured.

Referring to the accompanying drawings which are made a part hereof and on which similar reference characters indicate similar parts.

Figure 1 is a fragmentary perspective of the frame for the cabinet,

Figure 2, a horizontal section,

Figure 3, a side elevation with a portion shown in section,

Figure 4, a perspective view of a portion of the frame for the cabinet,

Figure 5, a section on line 5—5 of Figure 1,

Figure 6, a section on line 6—6 of Figure 1,

Figure 7, an enlarged view of the section shown in Figure 1, and

Figure 8, a section on line 8—8 of Figure 7.

In the drawings numeral 10 indicates horizontal frame portions and 11 upright frame portions, the lower ends of which fit within and are secured to the horizontal frame members 10 as by means of pins or nails 13. Lateral frame members 12 are secured to and between opposing upright members 11 by nails or pins as shown. The top and bottom of the cabinet will be of the same structure, such as that shown in perspective in Figure 1. Suitable insulating material 14 is placed within and confined between an inner metallic lining 18 and an outer casing 19. The insulating material may be and preferably is cork. This cork may be in finely divided form and packed in or secured together by a suitable binding material or may be in sheet form. The insulating material will fill in as a solid sheet the space confined within the lower frame members 10 between the bottom of the casing 19 and will fill in the spaces formed by the lateral members 12. When the insulating material has been applied within and about the frame work it will be apparent as may be seen from Figures 3 and 7 that the interior of the cabinet is insulated from the outside wall by a thickness of insulating material which is at least half the total insulating material between the lining 18 and the outer wall 19, i. e. at no place in the wall of the cabinet is the insulating material thinner than the width of one of the

members 10, 11 or 12, as is best shown in Figures 3 and 7. From this construction it will be apparent that the interior of the cabinet is fully insulated against heat transfer between the outer and inner walls of the cabinet. The frame structure provides the necessary strength to the cabinet and is so insulated as to prevent heat exchange through the walls of the cabinet.

While a particular construction of frame is shown it should be obvious that the invention is not limited by the showing since the invention resides broadly in providing a frame which may be insulated so that at no place in the wall is there a direct connection through the frame between the lining and outer wall of the cabinet.

It will be obvious to those skilled in the art that various changes may be made in my device without departing from the spirit of the invention and therefore I do not limit myself to what is shown in the drawings and described in the specification, but only as indicated by the appended claims.

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A refrigerator cabinet comprising a base formed of a plurality of horizontal bars arranged in rectangular formation, vertical bars positioned on the inner vertical surfaces of said horizontal bars, a casing secured to the outside surfaces of said horizontal bars, a plurality of lateral bars connected to said vertical bars being spaced from the bottom surfaces of said horizontal bars, a lining secured to the inner surfaces of said vertical and said lateral bars and insulating material positioned between said casing and said lining around said bars, substantially as set forth.

2. A refrigerator cabinet comprising horizontal frame portions having uprights secured at their ends to the inner vertical surfaces of said horizontal frame portions, lateral members secured to and between said uprights being spaced from the bottom surfaces of said horizontal frame portions, a casing secured to the outside and bottom surfaces of said horizontal frame portions, a lining secured to the inner surfaces of said lateral members and said uprights and insulating material positioned between said lining and casing around the framework, substantially as set forth.

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