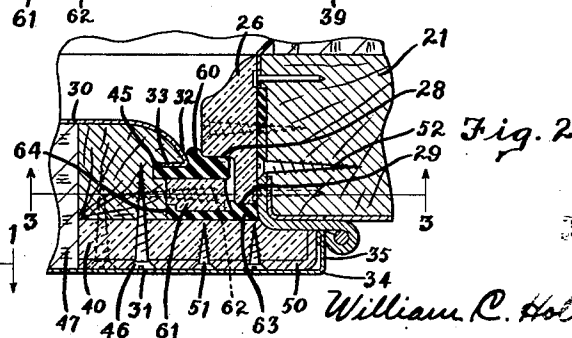
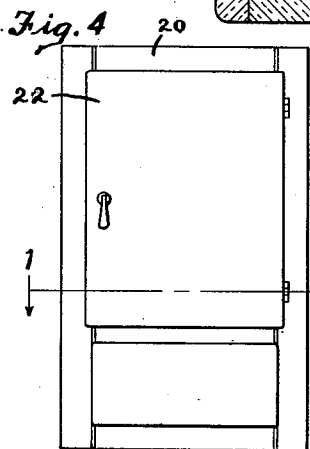
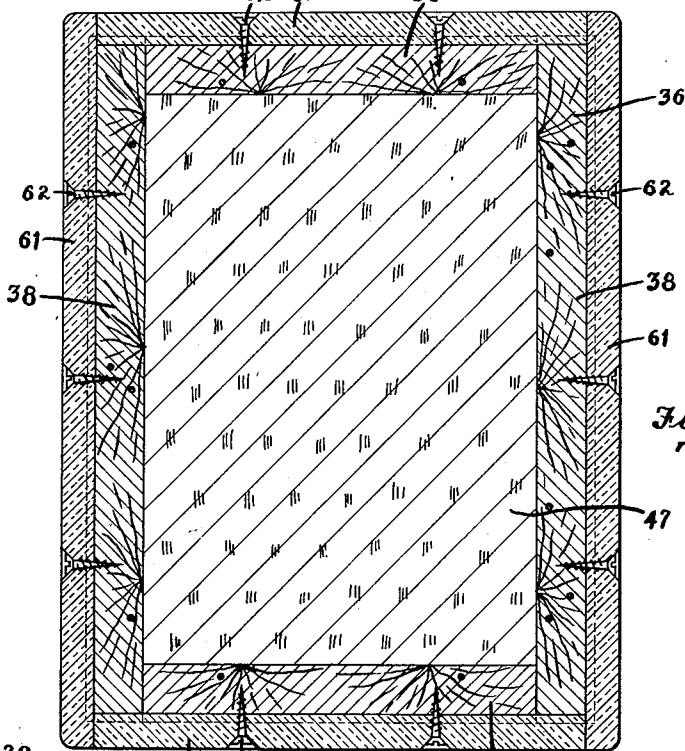
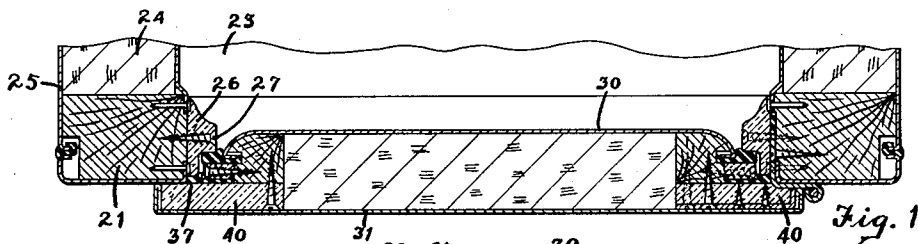


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W. C. HOLBROOK
REFRIGERATING APPARATUS

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UNITED STATES PATENT OFFICE

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REFRIGERATING APPARATUS

Application filed October 31, 1928. Serial No. 316,285.

This invention relates to refrigerating apparatus and more particularly to a door for a refrigerator cabinet.

An object of this invention is to provide a door adapted to be made of metal pans and provided with effective gasket construction for the purpose of insulating the pans from each other.

Another object of this invention is to provide a door of the pan type provided with effective gasket construction for sealing the door with relation to the refrigerator cabinet.

Further objects and advantages of the present invention will be apparent from the following description, reference being had to the accompanying drawing, wherein a preferred form of the present invention is clearly shown.

In the drawing:

Fig. 1 is a horizontal cross sectional view taken along the line 1—1 of Fig. 4 through a door and cabinet embodying features of this invention;

Fig. 2 is an enlarged view of a portion of Fig. 1;

Fig. 3 is a vertical cross sectional view of the door taken substantially along a plane corresponding to the line 3—3 of Fig. 2; and

Fig. 4 is an elevational view of a cabinet embodying features of this invention.

This invention relates to a refrigerator which may be of the mechanically cooled type which may comprise in general a cabinet or refrigerator designated as 20. The cabinet or refrigerator may be provided with a door jamb construction generally designated as 21 and with a door generally designated as 22. The cabinet may be provided with a food compartment lining 23 which may be insulated by insulation 24 and, if desired, the cabinet may be provided with an outer casing generally designated as 25. The door jamb 21 may be provided with a finishing strip 26 of wood or of moulded material which may be fastened to the door jamb 21 by means of screws 27. The finishing strip 26 may be provided with shoulders 28 and 29 which may be the portions of the refrigerator against which the gasket

construction hereinafter to be described is adapted to bear.

The door 22 may be of the pan construction. Thus the door may include an inner pan 30 and an outer pan 31. The inner pan 30 may be provided with an edge 32 which, if desired, may be continued by an inwardly directed flange 33. The outer pan 31 may be provided with an edge 34 which, if desired, may be continued as a flange 35. A rectangular frame 36 may be provided for the door. If desired, the rectangular door frame may be provided with an edge including a flanged offset 37. For convenience in construction, the frame may be made in two major parts. One part may include four wooden pieces numbered 38 and 39 and another major part may include four other pieces made either of wood or moulded material and numbered 40.

The wooden pieces 38 and 39 may be assembled first in their relation to the pan 30. Thus the pieces 38 may be put in place with their notched construction 45 engaging the flange 33. Thereafter the wooden pieces 39 may be placed in position with their ends between the pieces 38 and thus permanently spacing the pieces 38. The moulded or wooden pieces 40 may then be secured by means of screws 46 to the wooden pieces 38 and 39. This construction provides the flanged offset 37 heretofore mentioned. Suitable insulation, which may be cork board or rock cork, may be inserted within the frame. This insulation is designated as 47.

The hinged construction 50 may be secured to the framework and preferably to one of the strips 40 by means of some of the screws 46 and by additional screws 51, if necessary. The other portion of the hinge may be secured by screws 52 to the door jamb construction 21 under the strip 26. The outer pan 31 may then be secured to the frame of the door in any suitable manner as by screws along the flange 35, not shown.

It is thus seen that the frame is provided with an edge having a flanged offset 37 and that the two pans 30 and 31 are spaced so that there is a gap between the edges of the pans. A gasket construction may be placed

in this gap. A convenient construction may include a gasket 60 adjacent the edge 32 of the pan 30. The finishing strip 61 may be secured by screws 62 to the wooden strips of the frame in such a manner as to lock the gasket 60 between the edge of the pan 30 and the said finishing strip 61. If desired, a second gasket 63 may be placed on the door. This gasket 63 may also be locked, for instance, between the finishing strip 61 and the flanged offset 37. A convenient method of so locking the gasket 63 may be by providing a slight offset 64 in the gasket 63 which is adapted to be engaged by a corresponding offset in the finishing strip 61. It is thus seen that the gasket 63 is locked between the flanged offset 37 of the frame and the finishing strip 61. The gaskets 60 and 63 are adapted to bear against portions of the refrigerator, and in this particular instance they may bear against the shoulders 28 and 29.

By the construction heretofore described, a door is provided in which the outer parts are substantially all of metal, and in which the remaining exposed parts may, if desired, be made of moulded material or of well protected wood and thus no parts are exposed which may deteriorate readily. The gasket construction is readily replaceable should it be necessary to replace the gaskets due to the severe wear imposed upon them by the impact with the portions of the refrigerator. The gaskets may be replaced by the removing of the finishing strips 61 without disturbing the remaining door construction. The finishing strips 61, if desired, may be made of moulded material of the same character as the strips 40 and 26. A suitable material for these strips may be what is known in the trade as gilsonite or any other water proof material which may be suitably treated in order to render the same water proof and odor proof.

While the form of embodiment of the invention as herein disclosed, constitutes a preferred form, it is to be understood that other forms might be adopted, all coming within the scope of the claims which follow.

What is claimed is as follows:

1. A door for a refrigerator comprising a substantially rectangular frame having an edge provided with a flanged offset, insulation within said frame, a metal pan on one side of said frame with its edge partly over the edge of the frame, a second metal pan on the other side of said frame with its edge adjacent the edge of said frame near said flanged offset, there being a gap between the edges of said pans, a gasket adapted to bear against a portion of the refrigerator, and a finishing strip in said gap between said first named pan and said flanged offset adapted to lock said gasket in place between the edge

of said first named pan and said finishing strip.

2. A refrigerator door comprising a substantially rectangular frame having an edge provided with a flanged offset, insulation within said frame, a metal pan on one side of said frame with its edge partly over the edge of the frame, a second metal pan on the other side of said frame with its edge adjacent the edge of said frame near said flanged offset, there being a gap between the edges of said pans, a pair of gaskets adapted to bear against portions of the refrigerator, and a finishing strip in said gap between the said first named pan and said flanged offset adapted to lock one of said gaskets between the edge of said first named pan and said finishing strip, and adapted to lock the other of said gaskets between said flanged offset and said finishing strip.

3. A door for a refrigerator comprising a substantially rectangular frame, said frame including four square ended pieces with external longitudinal notches, insulation within said frame, a metal pan on one side of said frame, said pan having inwardly directed edges partly over the edge of the frame and locked in said notches by the frame, a second metal pan on the other side of said frame with its edge adjacent the edge of said frame, there being a gap between the edges of said pans, a gasket adapted to bear against a portion of the refrigerator, and a finishing strip in said notches adapted to lock said gasket in place between said finishing strip and the edge of one of said pans.

4. A door for a refrigerator comprising a substantially rectangular frame, said frame including four square ended pieces with external longitudinal notches, insulation within said frame, a metal pan on one side of said frame, said pan having inwardly directed edges partly over the edge of the frame and locked in said notches by the frame, a second metal pan on the other side of said frame with its edge adjacent the edge of said frame, there being a gap between the edges of said pans, a pair of gaskets adapted to bear against portions of the refrigerator, and a finishing strip in said notches adapted to lock said gaskets in place, one of said gaskets being locked between the edge of one of said pans and said finishing strip and the other of said gaskets being locked between said frame and said finishing strip.

In testimony whereof I hereunto affix my signature.

WILLIAM C. HOLBROOK.