H. C. LEONARD.

REFRIGERATOR LINING.

APPLICATION FILED APR. 15, 1911.

1,010,649.

Patented Dec. 5, 1911.

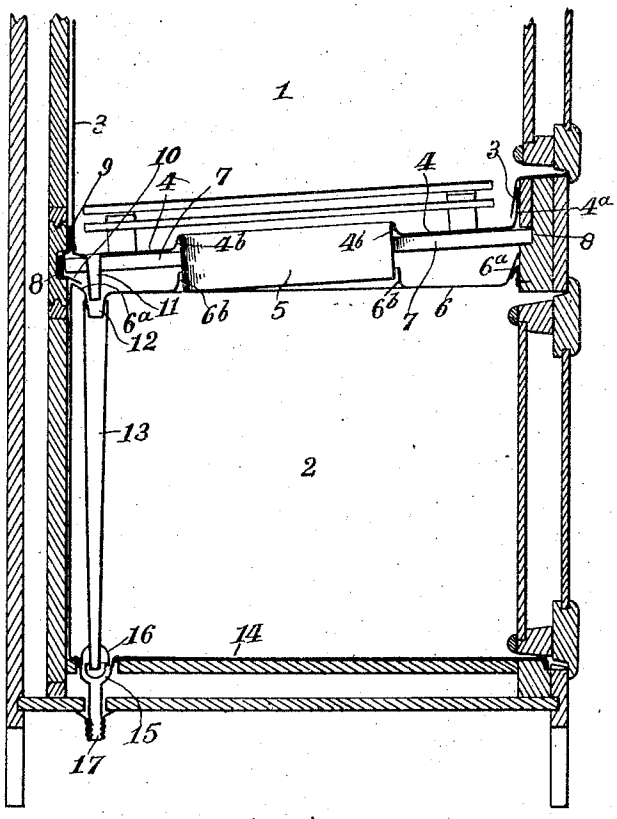


Fig. 1.

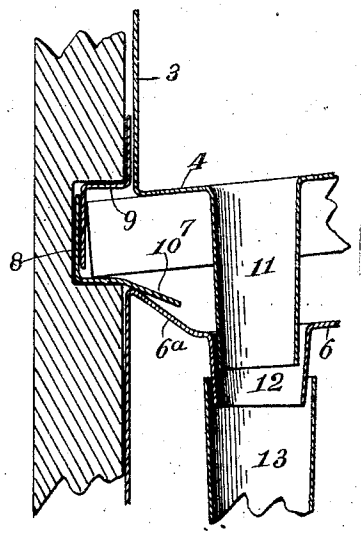


Fig. 3.

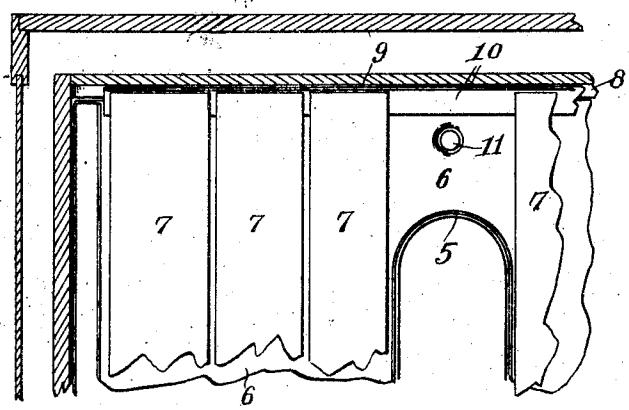


Fig. 2.

Witnesses,

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UNITED STATES PATENT OFFICE.

HARRY C. LEONARD, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO GRAND RAPIDS REFRIGERATOR COMPANY, OF GRAND RAPIDS, MICHIGAN, A CORPORATION OF MICHIGAN.

REFRIGERATOR-LINING.

1,010,649. Specification of Letters Patent. Patented Dec. 5, 1911.

Application filed April 15, 1911. Serial No. 621,256.

To all whom it may concern:

Be it known that I, HARRY C. LEONARD, a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Refrigerator-Linings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in refrigerator linings and its object is to provide a lining that will effectually drain the water from within the refrigerator; that will prevent access of moisture to the wood work of the refrigerator and to provide the device with various new and useful features hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawings in which:—

Figure 1 is a vertical section of a portion of a refrigerator showing my device therein; Fig. 2 a detail in plan view of a portion of the same; and Fig. 3 an enlarged detail in vertical section of a portion of Fig. 1.

Like numbers refer to like parts in all of the figures.

1 represents the ice chamber and 2 the provision chamber below the same, of a refrigerator.

3 represents the side of the lining to the ice chamber and 4 the bottom of the lining to the ice chamber. In the said bottom lining is an opening to permit the cold air to escape downward which opening is surrounded by a short tubular member 5 around which the bottom lining is turned upward whereby the water from the ice is retained on the bottom lining and conveyed to a drain pipe 11 extending downward therefrom.

The top of the provision chamber is spaced apart from the bottom of the ice chamber and is provided with upturned margins 6^a and is also upturned around the tubular member 5 as at 6^b whereby the top of the provision chamber retains any water that may fall upon the same and conveys the same away by means of a drain tube 12 which also receives the lower end of the tube 11. A drain pipe 13 surrounds the tube 12 at the upper end and extending downward to the bottom of the provision chamber is provided with a hood 16 which rests in a trap 15 in the upper part of the lower section 17 of the drain pipe. This trap 15 is outwardly turned at the upper edge and spaced apart from the hood 16 to permit discharge of any water from the floor of the provision chamber through the lower section 17 of the drain pipe.

The bottom of the ice chamber is supported upon strips or slats 7 which engage grooves 8 in the wall of the refrigerator and are inclined rearward toward the drain pipe 11. To prevent water from getting into the groove 8 and thence to the wood work of the refrigerator, sheet metal strips 9 and 10 are inserted in the groove, these strips overlap opposite the ends of the strips 7. The upper edge of the strip 9 is inserted behind the lining 3, and the lower edge of the strip 10 projecting inward and downward to discharge water upon the top of the provision chamber. These strips 9 and 10 instead of overlapping may obviously be made in a single integral strip if preferred.

By this construction I am able to provide a lining that will effectually carry away all of the water from the melting ice, or of condensation within the refrigerator, and effectually prevent access of moisture to the wood work of the same.

What I claim is:—

1. A refrigerator, comprising a lining to the ice chamber, a top to the provision chamber having upturned margins, a case having a groove to receive the ends of slats to support the bottom lining of the ice chamber, and a sheet metal lining in the groove of the case having its lower margin detached and projecting inward above the said top.

2. A refrigerator, comprising a lining for the ice chamber, a case having a groove

therein to receive the ends of slats to support the bottom of the ice chamber, a sheet metal lining in said groove having an upper edge projecting upward behind said lining and a lower edge projecting outward and downward from the lower side of the groove, a top to the provision chamber having a raised margin below the said last named edge, and drain tubes in the said bottom and top.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY C. LEONARD.

Witnesses:

HAROLD O. VAN ANTWERP,

LUTHER V. MOULTON.