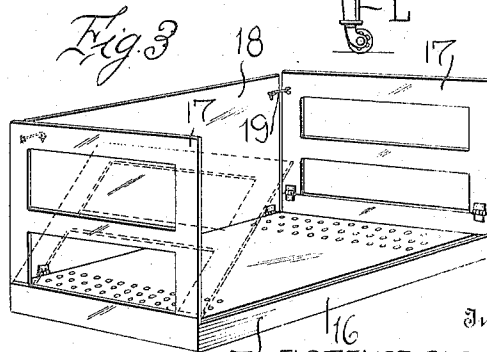
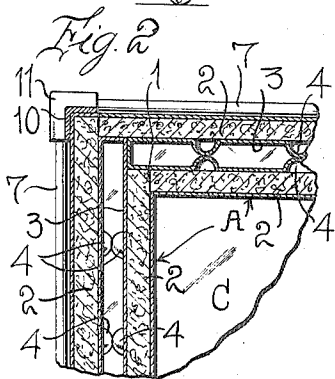
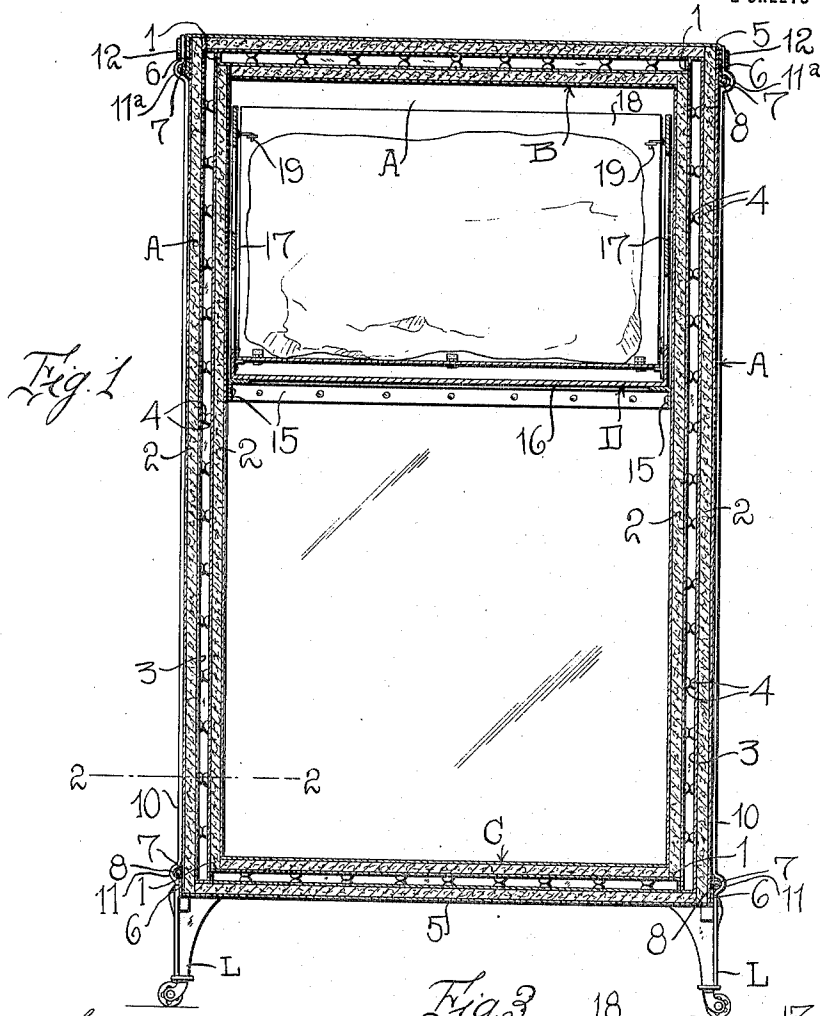


F. P. & H. D. LAYMAN.
REFRIGERATOR.
APPLICATION FILED SEPT. 16, 1916.

1,249,785.

Patented Dec. 11, 1917.

2 SHEETS—SHEET 1.



Inventors

FLORENCE P. LAYMAN
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Attorney

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2 SHEETS—SHEET 2.

Fig. 4

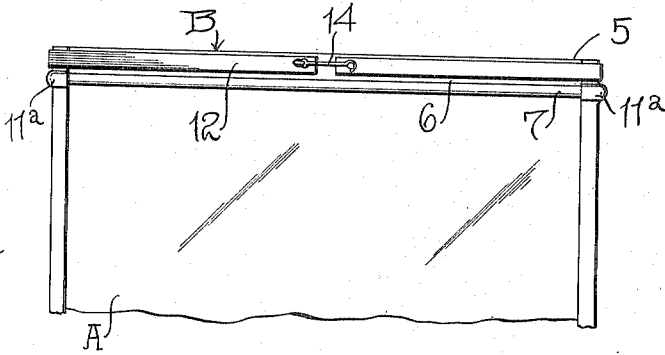


Fig. 6

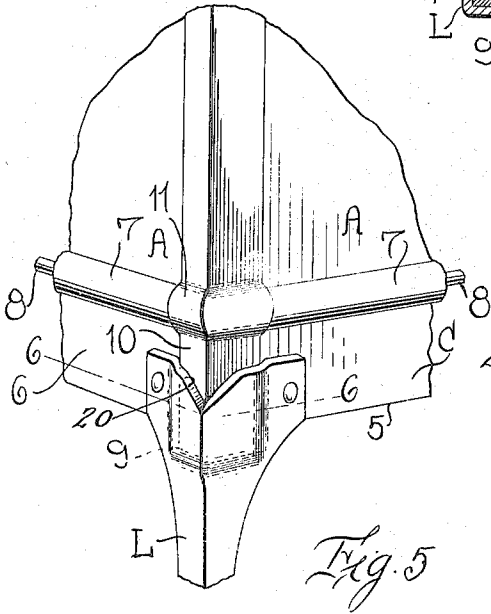
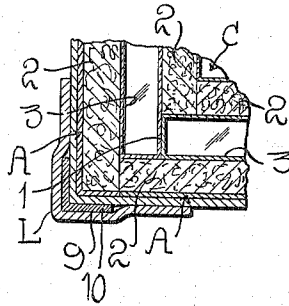


Fig. 5

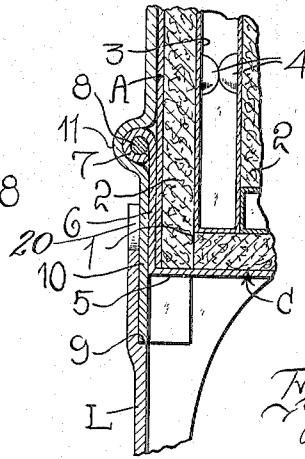


Fig. 7

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UNITED STATES PATENT OFFICE.

FLORENCE P. LAYMAN AND HIRAM DOUGLAS LAYMAN, OF PORTAGE, PENNSYLVANIA.

REFRIGERATOR.

1,249,785.

Specification of Letters Patent.

Patented Dec. 11, 1917.

Application filed September 16, 1916. Serial No. 120,523.

To all whom it may concern:

Be it known that we, FLORENCE P. LAYMAN and HIRAM DOUGLAS LAYMAN, citizens of the United States, residing at Portage, in the county of Cambria and State of Pennsylvania, have invented certain new and useful Improvements in Refrigerators, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to certain improvements in refrigerators and it is an object of the invention to provide a device of this general character embodying a novel and improved construction whereby the same may be readily and conveniently collapsed or disassembled for disinfection and cleaning purposes and for facility in transportation.

15 It is also an object of the invention to provide a device of this general character including novel and improved means whereby the several parts may be effectively maintained in assembled relation.

20 The invention has for a still further object to provide a device of this general character wherein the walls are of novel and improved construction whereby said walls are rendered substantially non-conductive of heat.

25 The invention consists in the details of construction and in the combination and arrangement of the several parts of our improved refrigerator whereby certain important advantages are attained and the device is rendered simpler, less expensive and otherwise more convenient and advantageous for use, all as will be hereinafter more fully set forth.

The novel features of the invention will hereinafter be definitely claimed.

30 In order that our invention may be the better understood, we will now proceed to describe the same with reference to the accompanying drawings, wherein

35 Figure 1 is a vertical sectional view taken through a refrigerator constructed in accordance with an embodiment of our invention;

Fig. 2 is an enlarged sectional view taken substantially on the line 2—2 of Fig. 1;

40 Fig. 3 is a view in perspective of an ice bunker as herein employed, one of the walls of said bunker being indicated by dotted lines in a partly folded position;

Fig. 4 is a fragmentary view in rear ele-

vation of the upper portion of our improved refrigerator as herein embodied;

Fig. 5 is a fragmentary view in perspective of a lower corner of our refrigerator as herein set forth;

Fig. 6 is a sectional view taken substantially on the line 6—6 of Fig. 5; and

Fig. 7 is a fragmentary vertical sectional view taken through a corner of our improved refrigerator and illustrating certain details of construction as herein embodied.

As herein embodied, our improved refrigerator is substantially rectangular in form and includes the vertical walls or panels A, the top wall or panel B and the bottom wall or panel C. These walls are substantially identical in construction and have their marginal portions stepped, as indicated at 1, so that when assembled the various walls or panels will intermesh one with the other in order to effect air-tight joints therebetween.

Each of the walls or panels A includes the inner and outer laminations 2 of cork or other material non-conductive of heat, and interposed between said laminations 2 is an inclosed jacket 3 formed preferably of sheet metal and wherein is created a vacuum in order to further insulate the wall or panel against heat, and in order that said jacket 3 may be held against collapse, we provide the opposite walls of said jacket 3 with the closely related and inwardly pressed protuberances 4, the protuberances of one wall contacting with the protuberances of the opposite wall, as is believed to be clearly disclosed in the accompanying drawings. While we do not wish to be limited as to the exact formation of these protuberances, it is preferred that the same be substantially semi-spherical.

Secured to the outer faces of the top panel or wall B and the bottom panel or wall C is the cap 5 formed preferably of metal and provided with the inwardly directed flanges 6 adapted to overlies the adjacent extremities of the vertical walls A when the various walls or panels are in assembled relation, and the free marginal portions of said flanges 6 are provided with the outstanding beads 7 preferably reinforced by the wire strand 8 as is particularly illustrated in Figs. 1 and 5.

Permanently secured to the corners of the

cap 5 of the bottom wall or panel C are the supporting legs L which coact with the adjacent flanges 6, and the upper portion of each leg L is pressed outwardly or otherwise constructed to afford a socket 9 to receive the lower extremity of a corner iron 10 angular in cross section and which coacts with the vertical panels A, when assembled, in a well known manner.

The lower end portion of said corner iron 10 is provided with an outstanding bead 11 affording a recess to receive the adjacent beads 7 of the bottom cap 5, while the opposite end portion of the rod is provided with a similar bead 11^a to receive the adjacent beads 7 of the top cap 5.

Disposed around the flanges 6 of the top cap 5 and above the beads 7 thereof is a strap 12 which also overlies the portions of the corner irons 10 above the beads 11^a thereof, and the extremities of said strap 12 are operatively engaged with the latch 14, as illustrated in Fig. 4, whereby it will be perceived that said strap 12 may be readily and conveniently adjusted in order to effectively maintain the corner irons 10 in operative position and consequently hold the walls or panels A, B and C in assembled relation. We wish to state however that we do not desire to limit ourselves to the use of a latch 14 as any other means may be employed for imparting the requisite tension upon the strap 12 as the requirements of practice will permit.

D denotes an ice bunker adapted to be supported within the chamber of the refrigerator and supported by the cleats 15 carried by certain of the vertical walls A, and as herein embodied, said bunker D includes the base member 16 and the upstanding end members 17 and the rear or back member 18, said members 17 and 18 being pivotally engaged with the base 16 and adapted to be folded thereupon when not in use so that a minimum of space will be occupied by the bunker D especially when the same is being transported.

The members 17 and 18 may have coacting therewith the suitable locking means as indicated at 19 for maintaining the same in elevated position or if preferred said members 17 and 18 may be permitted to rest against the adjacent vertical walls A when the bunker D is in applied position within the refrigerator.

The upper edge of each of the legs L adjacent the socket 9 is provided with the cut-out portion or recess 20 in order to facilitate the application of a corner iron or upright 10.

From the foregoing description, it is thought to be obvious that a refrigerator constructed in accordance with our invention is of an extremely simple and comparatively inexpensive nature and is par-

ticularly well adapted for use by reason of the convenience and facility with which it may be assembled, and it will also be obvious that our invention is susceptible of some change and modification without material departure from the principles and spirit thereof and for this reason we do not wish to be understood as limiting ourselves to the precise arrangement and formation of the several parts herein shown in carrying out our invention in practice, except as hereinafter claimed.

We claim:

1. A device of the character described comprising a top panel, a bottom panel, detachable vertical panels interposed between the top panel and the bottom panel, supporting legs secured to the bottom panel, uprights detachably engaged with the legs and overlying the adjacent margins of the vertical panels for maintaining the same in assembled relation, and means coacting with the top panel and the uprights for maintaining said uprights in applied position.

2. A device of the character described comprising a top panel, a bottom panel, detachable vertical panels interposed between the top panel and the bottom panel, supporting legs secured to the bottom panel, each of said legs being provided with a socket, an upright insertible within said socket and coacting with the adjacent margins of the vertical panels for maintaining the same in assembled relation, and means coacting with the top panel and the upright for holding said upright in applied position.

3. A device of the character described comprising a top panel, a bottom panel, detachable vertical panels interposed between the top panel and the bottom panel, supporting legs secured to the bottom panel, uprights detachably engaged with the legs and coacting with the adjacent margins of the vertical panels for maintaining the same in assembled relation, and means coacting with the top panel and the uprights for maintaining said uprights in applied position, each of said uprights and the bottom panel being provided with interlocking means.

4. A device of the character described comprising a top panel, a bottom panel, detachable vertical panels interposed between the top panel and the bottom panel, supporting legs secured to the bottom panel, uprights detachably engaged with the legs and coacting with the adjacent margins of the vertical panels for maintaining the same in assembled relation, and means coacting with the top panel and the uprights for maintaining said uprights in applied position, each of said uprights and the top panel being provided with interlocking means.

5. A device of the character described comprising a top panel, a bottom panel, de-

5 detachable vertical panels interposed between
the top panel and the bottom panel, said top
panel and bottom panel each being provided
with flanges overlying the outer faces of the
vertical panels, said flanges being provided
with outstanding beads, uprights coacting
with the adjacent margins of the vertical
panels, said uprights being provided with
recesses to receive the beads of the top panel
10 and the bottom panel, means coacting with
the upper extremities of the uprights for
maintaining the same in applied position,
and means coacting with the lower extremi-
ties of the uprights for maintaining the
15 same in applied position.

6. A device of the character described
comprising a top panel, a bottom panel, de-
tachably vertical panels interposed between
the top panel and the bottom panel, sup-
20 porting legs secured to the bottom panel,
uprights detachably engaged with the legs
and overlying the adjacent margins of the
vertical panels for maintaining the same in

assembled relation, and means coacting with
the upper portions of the uprights for main- 25
taining said uprights in applied position.

7. A device of the character described
comprising a top panel, a bottom panel,
members carried by the bottom panel to
afford sockets, detachable vertical panels in- 30
terposed between the top panel and the bot-
tom panel, uprights insertible within the
sockets of the bottom panel and coacting
with the adjacent margins of the vertical
panels for maintaining the same in as- 35
sembled relation, and means coacting with
the upper portions of the uprights for hold-
ing said uprights in applied position.

In testimony whereof we hereunto affix
our signatures in the presence of two wit- 40
nesses.

FLORENCE P. LAYMAN.

HIRAM DOUGLAS LAYMAN.

Witnesses:

W. E. LAWSON,

M. R. WILSON.