

(No Model.)

G. A. BOWEN.
REFRIGERATOR.

No. 540,778.

Patented June 11, 1895.

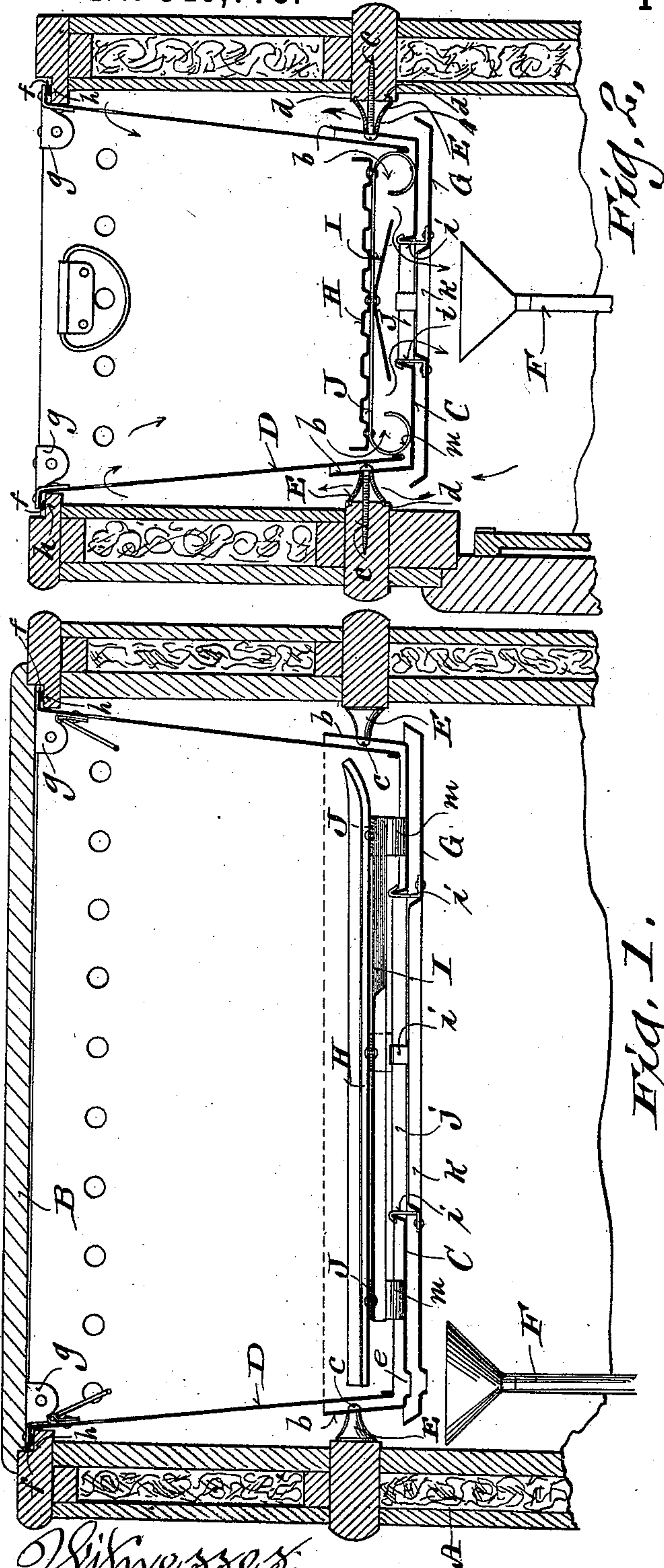


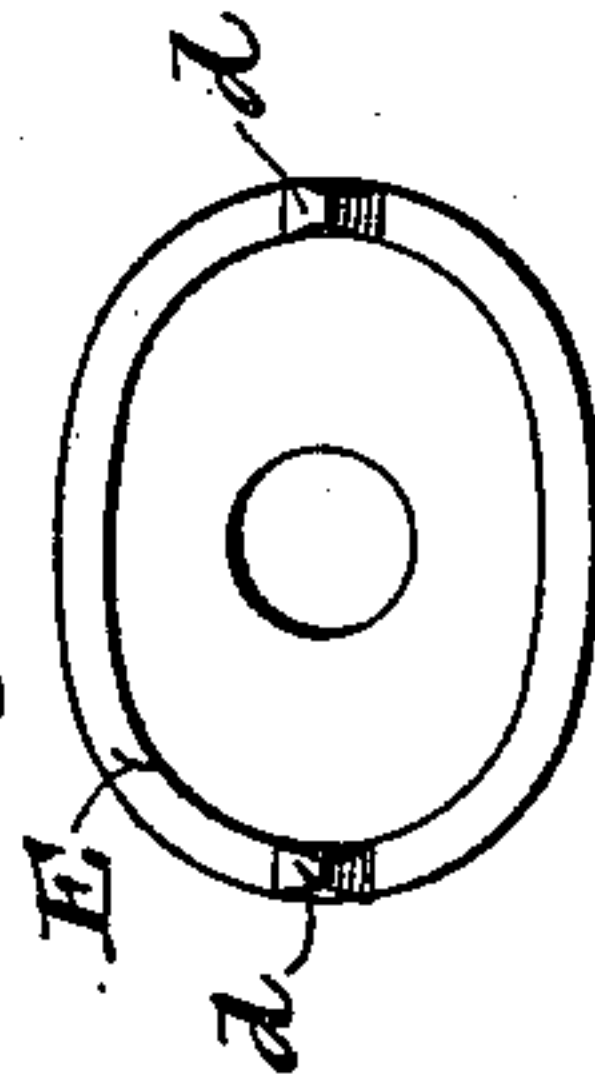
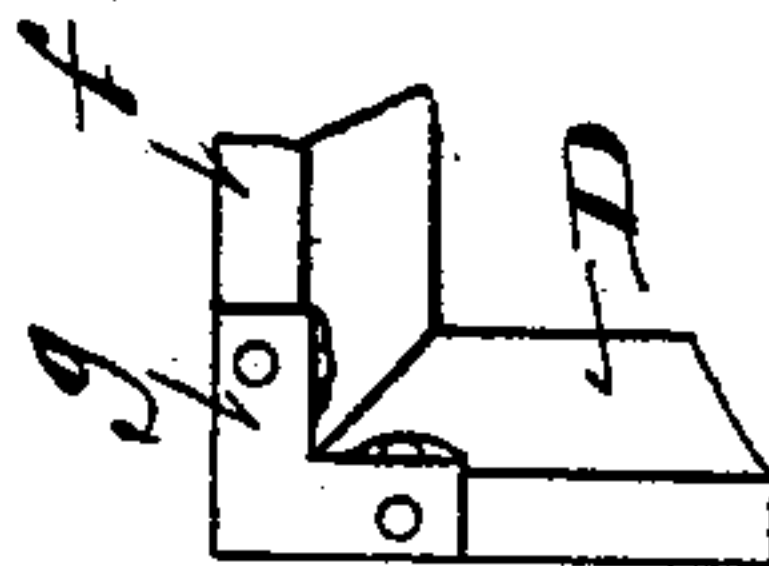
Fig. 1.

Fig. 2.

Fig. 5.

Fig. 4.

Fig. 3.



Witnesses:
Geo. W. Young
N. E. Oliphant

Inventor:
George A. Bowen

By H. G. Underwood
Attorney.

UNITED STATES PATENT OFFICE.

GEORGE A. BOWEN, OF FOND DU LAC, WISCONSIN, ASSIGNOR OF ONE-HALF TO CHARLES L. MUENTER, OF SAME PLACE.

REFRIGERATOR.

SPECIFICATION forming part of Letters Patent No. 540,778, dated June 11, 1895.

Application filed March 12, 1894. Serial No. 503,249. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. BOWEN, a citizen of the United States, and a resident of Fond du Lac, in the county of Fond du Lac, and in the State of Wisconsin, have invented certain new and useful Improvements in Refrigerators; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to cheapen the production of refrigerators, insure proper drainage and facilitate cleaning of the same, said invention consisting in certain peculiarities of construction and combination of parts hereinafter specified with reference to the accompanying drawings and subsequently claimed.

In the drawings, Figure 1 represents a vertical longitudinal section of a portion of a refrigerator embodying my improvements; Fig. 2, a vertical transverse section of the same; Fig. 3, a detail plan view of an upper corner of a sectional ice-box that constitutes one of the essential features of said invention; Fig. 4, an end elevation of a casting employed in the suspension of the ice-box bottom, and Fig. 5 a side elevation of said casting.

Referring by letter to the drawings, A represents the casing and B the cover of a refrigerator embodying my improvements. As one of the features of the present invention the metallic ice-box is made separable, the bottom C being herein shown rigidly secured to the casing and the body D detachably connected thereto. Consequently said box may be readily cleaned inside and out. However the ice-box bottom may be otherwise than rigid in the casing if found convenient or desirable in practice.

As a matter of preference the bottom C of the ice-box is provided with upwardly extended walls *b* and screws *c* or analogous devices are run through these walls and hollow castings E into the casing, it being also preferable to provide the outer ends of the castings with projections *d* that embed themselves in said casing. Each of the castings E is preferably closed at its inner end, except for an opening that admits the passage of the screw or analogous supporting device, the projec-

tion *d* of said casting being on the edge of its open outer end.

The castings E or spacing devices above specified are simple, economical and easily applied and aid in supporting the ice-box bottom because of their engagement with the refrigerator walls thus taking some of the strain that would otherwise come entirely upon the screws *c* or analogous supporting devices.

In hanging the bottom of the ice box it is given a sufficient pitch toward the drain-pipe F of the refrigerator and an opening *e* in said bottom registers with said pipe.

The upper removable portion or body of the ice box is provided at the top with a continuous horizontal flange *f* that is strengthened at the corners by reinforcing plates *g* and rests on a corresponding counter-sunk ledge *h* of the casing.

When the ice-box body is in place its lower end comes within the walls of the stationary bottom or such hangers as may be substituted for the walls, and said end of the body as well as its supporting flange is stiffened by folding the metal on itself or in any other suitable manner.

A drip-pan G is detachably connected to the bottom of the ice-box and as a matter of preference this result is accomplished by means of hook-like hangers *i* that extend upward from the drip-pan through a central opening in said ice-box bottom and engage a flange *j* around this opening. The drip-pan is also provided with a central opening guarded by a flange *k* and another opening in said pan registers with the drain-pipe above specified.

The ice-rack as herein shown embodies a corrugated plate H of metal turned up at one end and both sides to insure proper drainage, a deflector I for water of condensation on the under side of the plate, and supports J also secured to the under side of said plate, each of these supports being a strip of metal having rolled ends *m*, as shown in Fig. 2, but I do not wish to be understood as limiting myself to any particular form of supports. It is to be observed that the turned up sides of the plate are in the direction of the corrugations.

By having the bottom of the ice-box perma-

nently secured to the casing and the body removable I overcome the liability of the parts in connection with said bottom becoming bent or displaced as is often the case with an ordinary ice-box when detached from the casing, and there is materially less weight for the operator to handle this being of great advantage in refrigerators of large size.

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

1. A refrigerator having the bottom of its ice-box permanently secured to the casing and the body portion of this box hung loose in said casing independent of said bottom.

2. A refrigerator having the bottom and body of its ice-box independent of each other, the former being provided with upwardly extended walls that come outside the body-walls, spacing-devices inserted between the bottom-walls and adjacent casing, supporting devices run through these bottom-walls and spacing-devices into the casing, and suitable means for effecting a detachable union between the ice-box body and said casing.

3. A refrigerator having the bottom of its ice-box permanently secured to the casing, the body portion of the box independent of said bottom, and each wall of said body provided with a flange that rests on a ledge in the casing.

4. A refrigerator having the bottom of the ice-box permanently secured to the casing, the body portion of the box independent of said bottom, a flange extending from each wall of said body to rest on a ledge in the casing, and reinforcing corner plates for the flanges.

5. A refrigerator having the bottom of its ice-box hung from suitable supports in the casing, and the body portion of said box hung loose in said casing independent of the bottom.

In testimony that I claim the foregoing I have hereunto set my hand, at Fond du Lac, in the county of Fond du Lac and State of Wisconsin, in the presence of two witnesses.

GEORGE A. BOWEN.

Witnesses:

C. L. MUEENTER,

C. A. GALLOWAY.