(No Model.)

A. McKENZIE.

REFRIGERATOR.

No. 332,417. Patented Dec. 15, 1885.

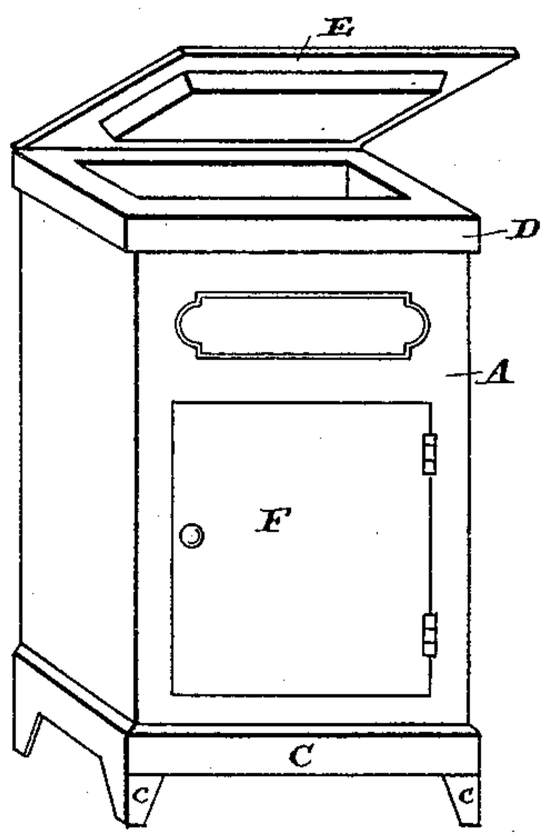

Fig. 1.

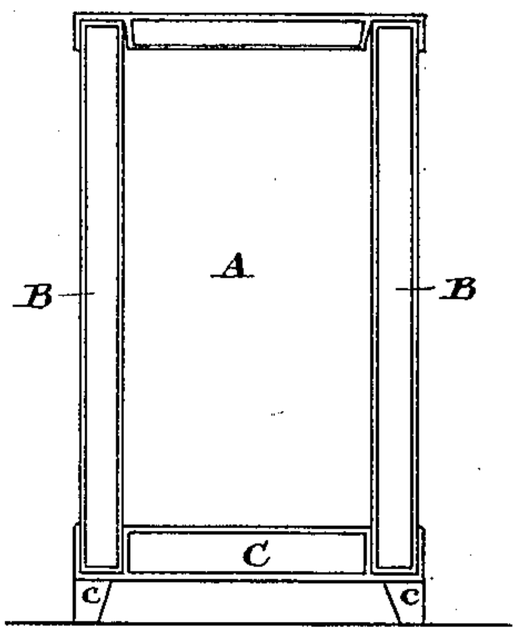

Fig. 2.

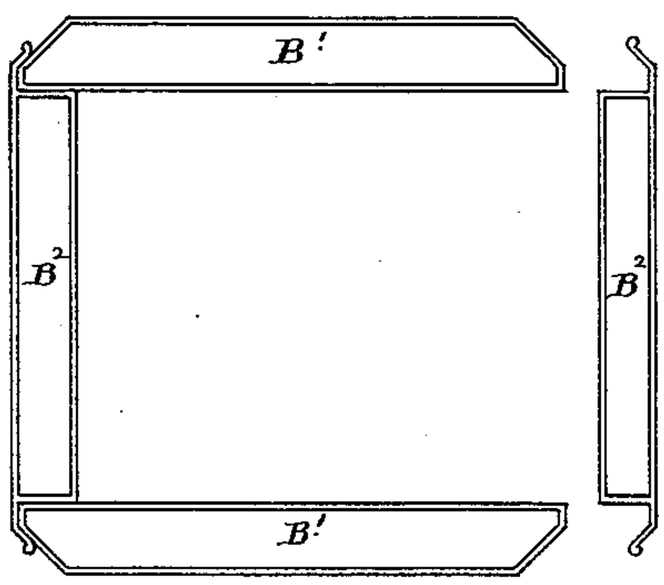

Fig. 3.

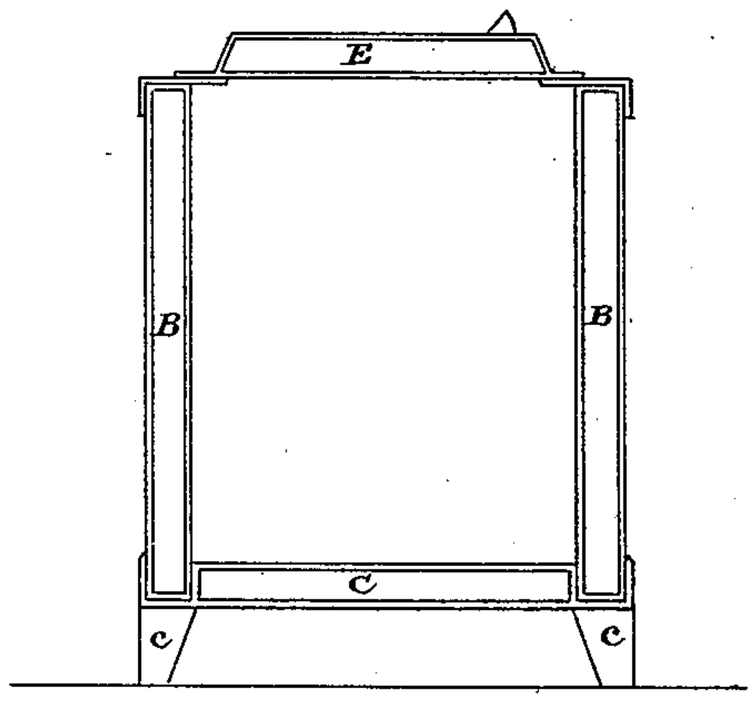

Fig. 4.

Witnesses.

George East

M. Mills

Inventor.

Angus McKenzie

by L. Toulmin & Co.

Attys

UNITED STATES PATENT OFFICE.

ANGUS McKENZIE, OF TORONTO, ONTARIO, CANADA, ASSIGNOR OF ONE-HALF TO SIDNEY F. STEVENS, OF GRAND RAPIDS, MICHIGAN.

REFRIGERATOR.

SPECIFICATION forming part of Letters Patent No. 332,417, dated December 15, 1885.

Application filed March 2, 1885. Serial No. 157,500. (No model.)

To all whom it may concern:

Be it known that I, ANGUS McKENZIE, a subject of the Queen of Great Britain, residing at Toronto, in the county of York and Province of Ontario, Canada, have invented a new and useful Refrigerator, of which the following is a specification.

My invention relates to improvements in refrigerators, in which the body is constructed of hollow walls of metal, either detachable or in one piece, and in which the base and cover are in the form of trays, which bind and retain the walls in their proper position. I attain this object by the means illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my refrigerator as intended to be built with the body in one piece. Fig. 2 is a vertical section of the same. Fig. 3 is a plan of my refrigerator as intended to be built in sections, one section being shown out of place. Fig. 4 is a vertical section of the same, showing the method of fitting on the cover and base.

It is well known that to provide an outside shell of wood and to trust to an inner lining of charcoal, sawdust, or other supposably efficient non-conductor certainly produces coolness, but also entails a certain amount of dampness, arising from the condensation natural to the introduction of such materials to the ice which is required to create and maintain a certain amount of temperature.

A is the body of my refrigerator, made of sheet metal—in fact, a double sheet-metal shell. It is made in sections or as a solid body, as I have mentioned.

B are the walls, consisting of a hollow box of metal. I prefer sheet-iron as being the cheapest. In the case of the body being in one piece I conceive that no further description is necessary; but when it is constructed in sections, reference is to be had to Figs. 3 and 4. Here it will be seen that the four sides or walls are each hollow boxes, the exterior edges of two of the walls, B′, being beveled at an angle of forty-five degrees, while the other two walls, B^2, are perfectly rectangular, but have on their exterior sides a continuation, which is in a line with such exterior side until it reaches the point where the bevel in the other walls commences, at which point it follows the angle of forty-five degrees, and so clasps and retains the wall B′. I prefer to turn the edge of this continuation in the form of a roll, as shown, to afford a hold for the hand when taking the walls apart. In Fig. 3 the position of the tray as binding together the walls is shown by a dotted line.

C is the base of the refrigerator, made in the form of a tray, the center portion, which exactly fits the cavity formed by the walls, being made hollow, as shown in Fig. 4. This tray, it will be seen, holds the walls tightly together from both external and internal pressure. Legs or supports *c* may be attached to this base.

D is the top or cover, made also in the form of a tray, an aperture being made sufficiently large to accommodate the hinged trap or cover E, which is of the shape shown, and may either have the hollow space within the refrigerator, as shown in Fig. 1, or it may be on the upper surface of the said cover E, as shown in Fig. 4. In either case it will be seen that the walls are held rigidly together.

Either of the hollow walls may be adapted to hanging a door, F, made on the same principle as the cover E.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. As a refrigerator, a metal box or chest composed of four hollow walls hermetically closed, in combination with a tray-shaped base with hollow center, and a tray-shaped top, substantially as shown and for the purpose specified.

2. As a refrigerator, a metal box composed of four walls, consisting each of a rectangular box hermetically closed, two of such boxes having extensions which clasp the other two boxes, in combination with the tray-shaped base, and top or cover, substantially as shown and for the purpose specified.

ANGUS McKENZIE.

Witnesses;
R. P. ECHLIN,
R. H. HUMPHRIES.