

(No Model.)

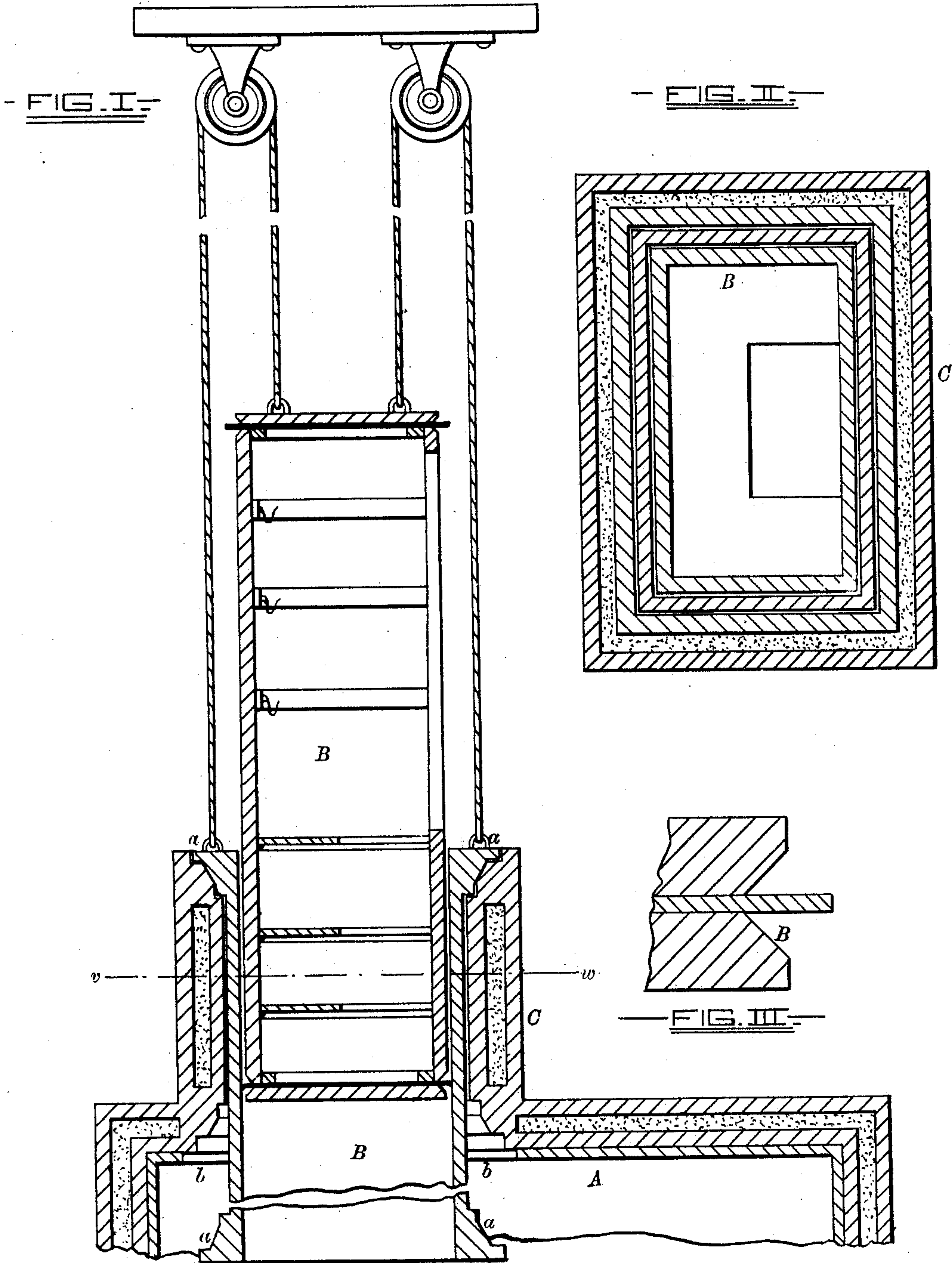
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C. E. STEWART.

Combined Refrigerator and Dumb Waiter.

No. 231,369.

Patented Aug. 17, 1880.



— WITNESSES —

Geo. A. Boyden
Harry L. Albough

— INVENTOR —

Charles E. Stewart
by G. H. W. Howard
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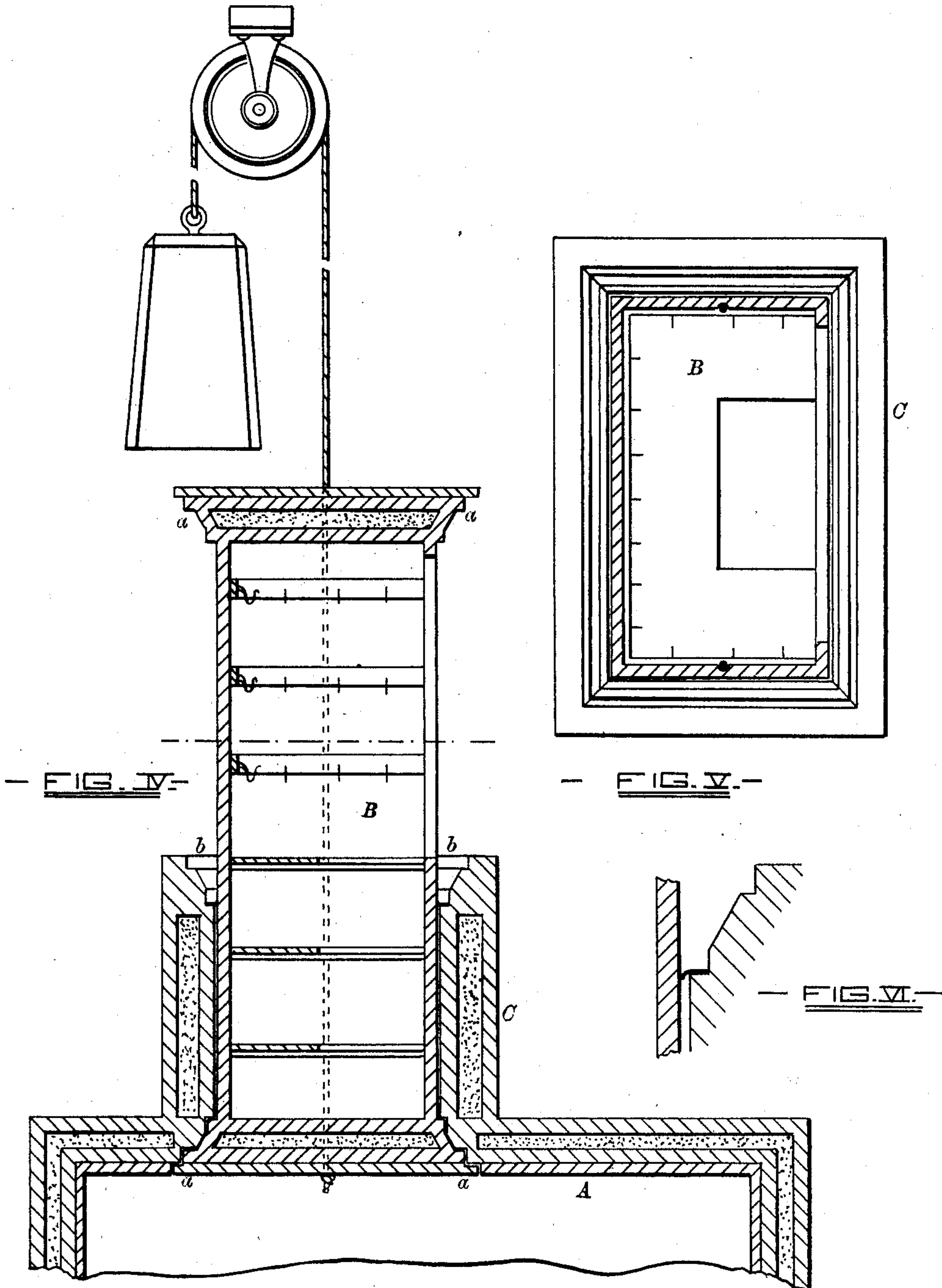
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UNITED STATES PATENT OFFICE.

CHARLES E. STEWART, OF BALTIMORE, MARYLAND.

COMBINED REFRIGERATOR AND DUMB-WAITER.

SPECIFICATION forming part of Letters Patent No. 231,369, dated August 17, 1880.

Application filed May 15, 1880. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. STEWART, of the city of Baltimore, and State of Maryland, have invented certain Improvements in a Combined Refrigerator and Dumb-Waiter, of which the following is a specification; and I do hereby declare that in the same is contained a full, clear, and exact description of my said invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to a combined refrigerator and dumb-waiter, in which the upper and lower ends of the waiter are adapted to form a close joint when brought respectively in contact with the outer and inner surfaces of the wall of the chamber through which the waiter passes, and thereby prevent the passage of air to or from the chamber, with a view to save ice, as will hereinafter fully appear.

In the further description of my said invention, which follows, reference is made to the accompanying drawings, forming a part hereof, and in which—

Figure I is a vertical section of the invention. Fig. II is a transverse section of the same on the dotted line *vw*. Fig. III is a sectional view of a part of the invention. Figs. IV and V are, respectively, a vertical and a cross-section of the invention, illustrating a modified construction of the same. Fig. VI is a sectional view of certain parts of the invention.

Similar letters of reference indicate similar parts in all the views.

A is the refrigerating-chamber, which is of ordinary construction, as far as its non-heat-conducting features are concerned. B is the dumb-waiter, consisting of a box having suitable shelves and hooks for holding the various articles to be elevated from the chamber.

The dumb-waiter is formed of a box suspended by a line which extends over a pulley and is attached to a counterbalancing-weight, as shown in the drawings, Figs. IV, V, and VI,

or of a box inclosed within a casing, to which casing the supporting-lines are attached, as shown in Figs. I, II, and III. In the latter case the casing constitutes the counterbalancing-weight as well as a part of the dumb-waiter.

In both constructions the waiter is provided with an overhanging flange, *a*, at either end, adapted to fit closely into correspondingly-shaped depressions *b* around the opening in the chamber, through which the waiter passes, and thereby form a joint when the waiter is elevated or depressed to its fullest extent.

A combing, *C*, raised above the top of the chamber, admits of the depressions *b* being made much deeper than if they were formed in the upper wall of the refrigerator alone; and it also constitutes a substantial guide for the dumb-waiter.

When the casing is used as a part of the waiter the passage of air between the casing and the inner box is prevented by the application of strips *c* of rubber or other suitable material.

It will be understood that in using the casing of the box as a counterbalancing-weight, as described, the said casing does not interfere with the removal of articles from the box when elevated, or with the replenishing of the said box when the same is lowered, as the two parts of the box move in opposite directions.

I claim as my invention—

In a combined refrigerating-chamber and dumb-waiter, the waiter-box provided with extended or projecting flanges, and the upper wall of the refrigerating-chamber with depressions to receive the said flanges when the waiter-box is either elevated or depressed to its fullest extent, substantially as and for the purpose herein specified.

CHARLES E. STEWART.

Witnesses:

WM. T. HOWARD,
JNO. T. MADDOX.