

No. 755,876.

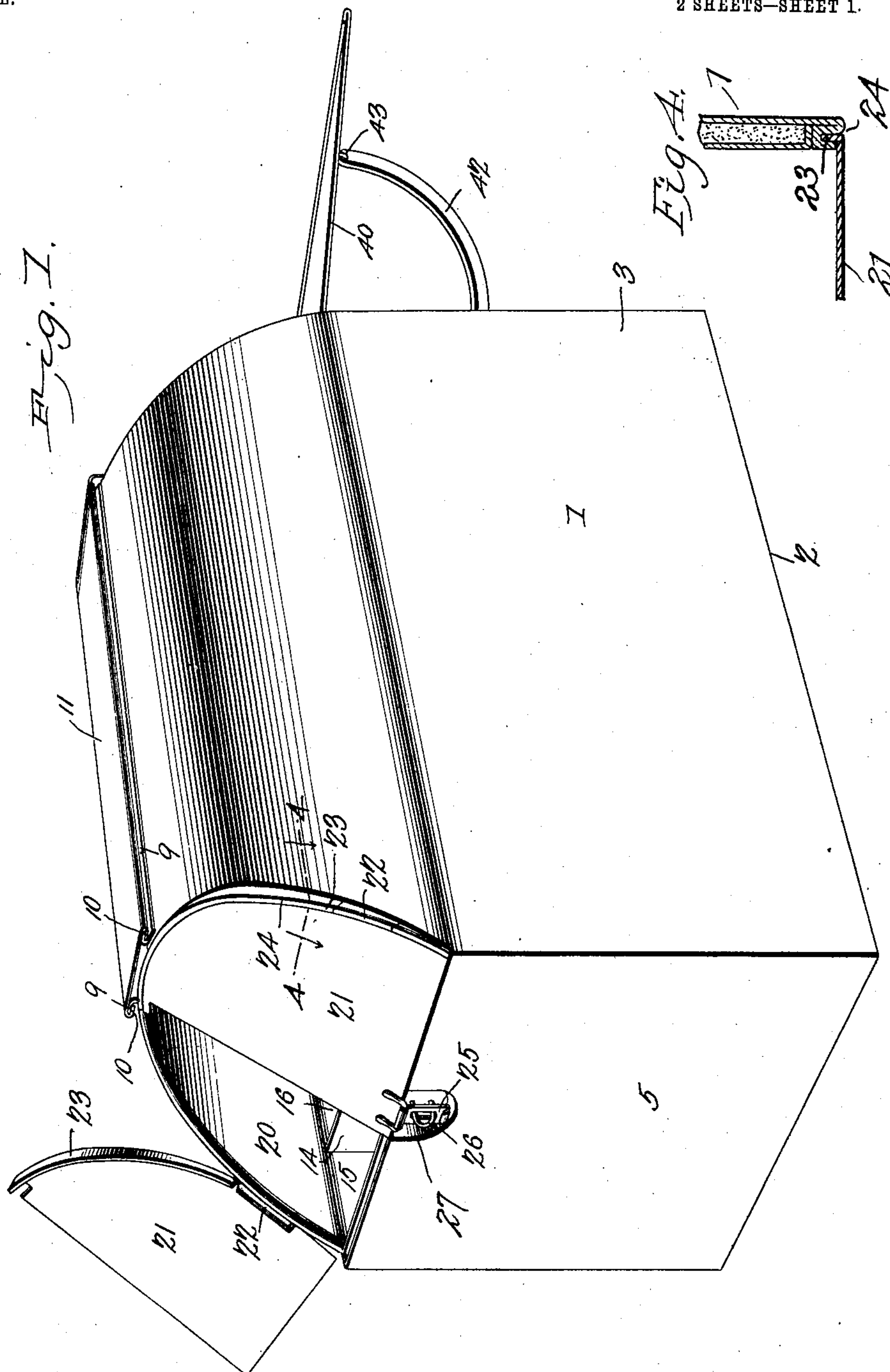
PATENTED MAR. 29, 1904.

J. F. HORN.
REFRIGERATOR.

APPLICATION FILED MAY 25, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses
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J. J. Emore

Josiah F. Horn, Inventor.
by C. A. Snow & Co.
Attorneys

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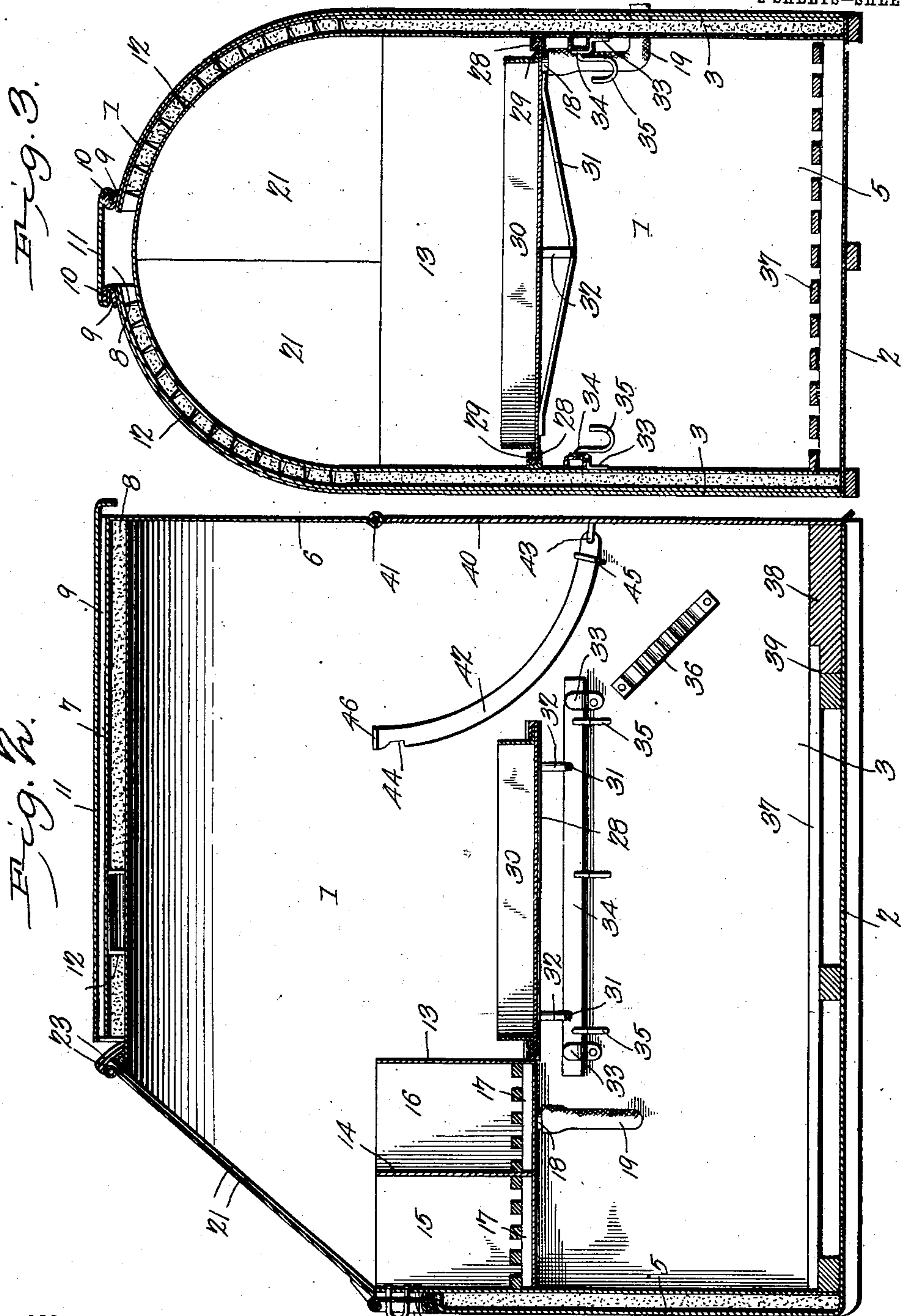
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J. J. O'Connor

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UNITED STATES PATENT OFFICE.

JOSIAH F. HORN, OF HAZLETON, PENNSYLVANIA.

REFRIGERATOR.

SPECIFICATION forming part of Letters Patent No. 755,876, dated March 29, 1904.

Application filed May 25, 1903. Serial No. 158,701. (No model.)

To all whom it may concern:

Be it known that I, JOSIAH F. HORN, a citizen of the United States, residing at Hazleton, in the county of Luzerne and State of Pennsylvania, have invented a new and useful Improvement in Refrigerators, of which the following is a specification.

My invention relates to refrigerators, and is especially designed for use upon butchers' wagons for preserving meat and the like during delivery, and has for its object to produce a device of this character of comparatively simple construction which will be efficient in operation and one in which ready access may be had to all parts of the refrigerator.

To these ends the invention comprises the novel details of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view of my improved refrigerator. Fig. 2 is a vertical longitudinal section through the same. Fig. 3 is a vertical transverse section.

Referring to the drawings, 1 indicates the refrigerator, comprising a bottom 2, side walls 3, a front end wall 5, a rear end wall 6, and an arched top 7, which latter is continuous with the side walls. The refrigerator is composed, preferably, of sheet metal, and its front end wall 5, side walls 3, and top 7 are of two thicknesses or sheets of metal spaced apart and receiving between them at some time after the device has been otherwise completed a filling of cork, shavings, sawdust, charcoal, or like non-conductor of heat, which may be renewed from time to time if circumstances so require, the top 7 being provided with a central longitudinal opening formed in the outer sheet of metal, through which the non-conducting material is filled between the walls. The opening 8 is provided at opposite sides with longitudinal flanges 9, engaged by similar flanges 10, formed upon a slide or cover 11, which normally closes said opening, this cover being operable to permit introduction of the filling material, as will be readily understood. The metal sheets forming the sides and top of the refrigerator are sustained in their spaced condition by means of a central vertical web 12, composed of sheet metal and bent to U

form in cross-section and disposed between the parts, with its crown soldered or otherwise secured to the outer sheet and the lower ends of its sides similarly secured to the inner sheet of the refrigerator-wall.

The refrigerator is provided upon its interior at its forward end and adjacent to its top with a receptacle 13, divided by a partition 14 to form an ice-compartment 15 and a reserve meat-compartment 16, both of which compartments are provided with bottom gratings 17. Depending from and communicating with the ice-compartment 16 is a nozzle 18, which receives the upper end of a hose or other flexible pipe 19, extending outwardly through the side walls of the refrigerator to discharge the waste water from the ice. The forward end of the refrigerator-top 7 is truncated to form a front opening 20, disposed directly above the receptacle 13, said opening being normally closed by a pair of doors 21, pivoted adjacent to their lower ends, as at 22. These doors, which when closed overlap at their meeting edges, are provided along their upper outer edges with flanges 23, which when the doors are closed seat within recesses 24, formed in the top of the refrigerator adjacent to the opening 20, thus securely sealing the refrigerator and preventing escape of the cold air therefrom or the entrance of warm air thereto. The doors 21 when closed are maintained in such position by a hasp 25, engaging a staple 26, disposed within a recess 27, formed at the top of the end wall 5 by cutting away the outer metal sheet composing said wall. Thus the hasp is protected and its accidental release from the staple prevented.

Upon the inner face of each side wall is secured a guide-rail 28, composed of sheet metal bent longitudinally to substantially U form in cross-section and disposed with its crown toward the wall of the refrigerator and its arms projecting outward therefrom, forming upper and lower guide-flanges which receive between them end flanges 29 of a removable tray 30, designed for the reception of sausage or other small meat. The tray 30 is braced by arched braces 31, disposed longitudinally of the tray, with their ends secured thereto and their centers bearing upon the outer ends

of struts 32. The rails 28 firmly support the tray, and it is to be noted that owing to the flanges on the latter engaging between the flanges of the rail both upward and downward displacement of the tray is entirely obviated and the same can only be removed by withdrawing it from the rails in a direction longitudinally thereof.

Attached to the inner face of each side wall is a pair of spaced cleats 33, which receive and support a removable bar 34, provided with a plurality of meat-hooks 35.

36 is a rack secured to the inner face of one of the side walls and designed for the reception of the meat-cutting tools.

37 is a removable grating mounted over the bottom of the refrigerator for the reception of meat which is being dispensed to prevent contact of the latter directly with the metal bottom of the refrigerator, and 38 is a chopping block or board which is disposed in rear of the grating 37 upon the bottom of the refrigerator and has upon its forward edge a flange 39, which projects beneath the rear end of the grating to prevent the displacement of the block by the jarring attendant upon chopping or cutting the meat.

40 is a door pivoted at its upper end, as at 41, to the end wall 6 and adapted to swing upward in a vertical plane upon its pivot to permit access to the refrigerator. When in its open position, the door is sustained by means of curved supporting-arms 42, pivoted at their inner ends, as at 43, to the inner face of the door and provided at their outer ends with notches 44, which engage stops 45 in the form of U-shaped staples or members attached to the inner faces of the side walls and in which the supporting-arms slide during the opening and closing of the door, the inner ends of the supporting-arms being angularly bent, as at 46, to prevent their escape from the

members 45 when the door is swung upward. In this connection it is to be noted that when the door reaches its open position the supporting-arms fall by gravity for the engagement of their notches 44 with the stops or members 45, thus automatically locking the door in its open position.

From the foregoing it will be seen that I produce a device of simple construction which is admirably adapted for the attainment of the ends in view and one in which all of the interior mechanism with the exception of the receptacle 13 is readily removable and in which ready access may be had to every part of the interior of the refrigerator, thus facilitating renovating of the same. In attaining these ends it is to be understood that I do not limit myself to the precise details herein shown and described, inasmuch as such minor changes as may in practice be found needful or desirable may be made without departing from the spirit of my invention.

Having thus described my invention, what I claim is—

A refrigerator comprising end walls, side walls and a top, the side walls and top being continuous and composed of inner and outer sheets spaced for the reception of the filling material, a spacing-web disposed between the inner and outer sheets for sustaining them in their spaced condition said top being provided with an opening formed in its outer sheet for the introduction of the filling material, and a removable cover normally closing said opening.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOSIAH F. HORN.

Witnesses:

JAMES A. SEELEY,
WM. H. SCHUTTER.