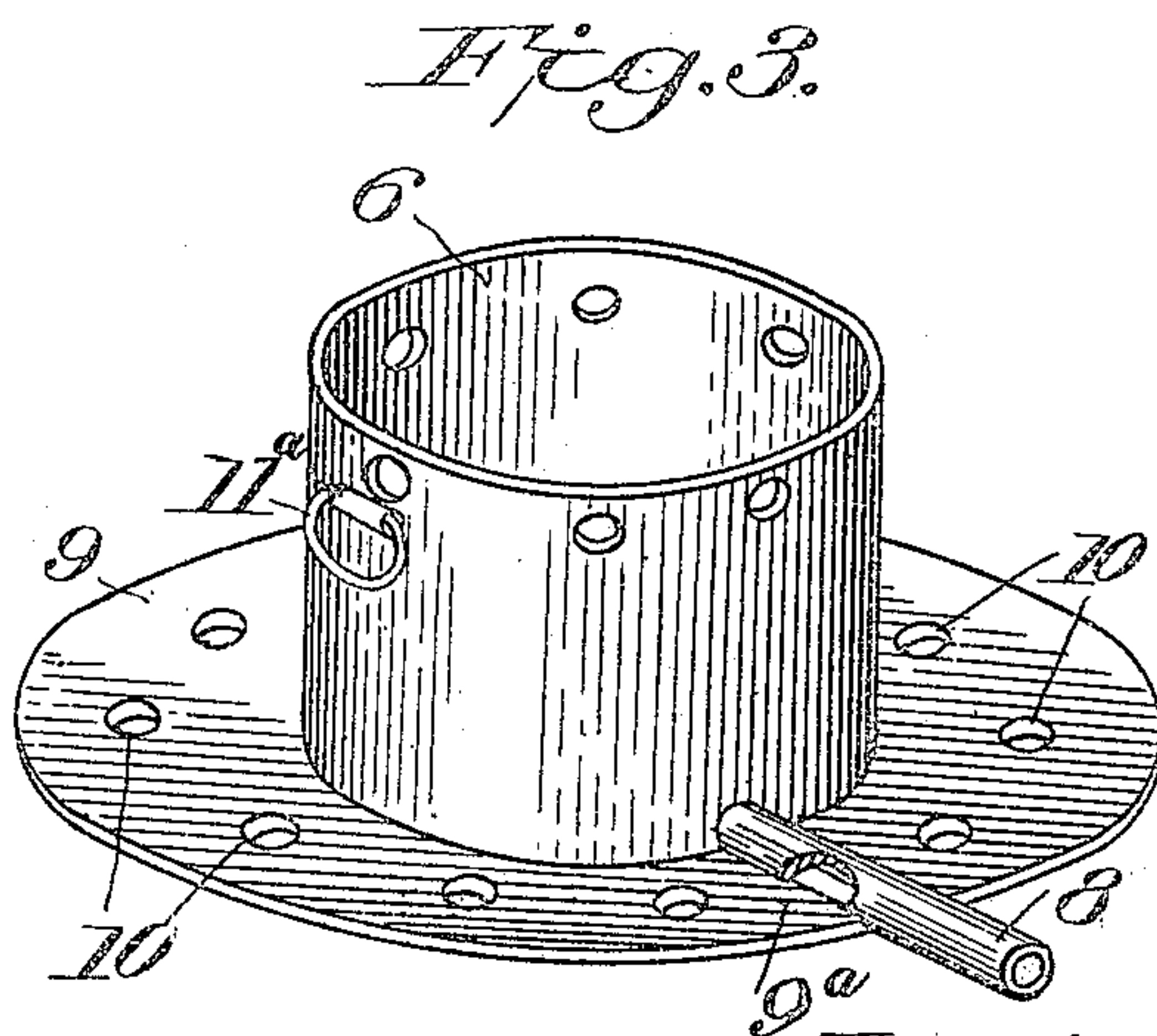
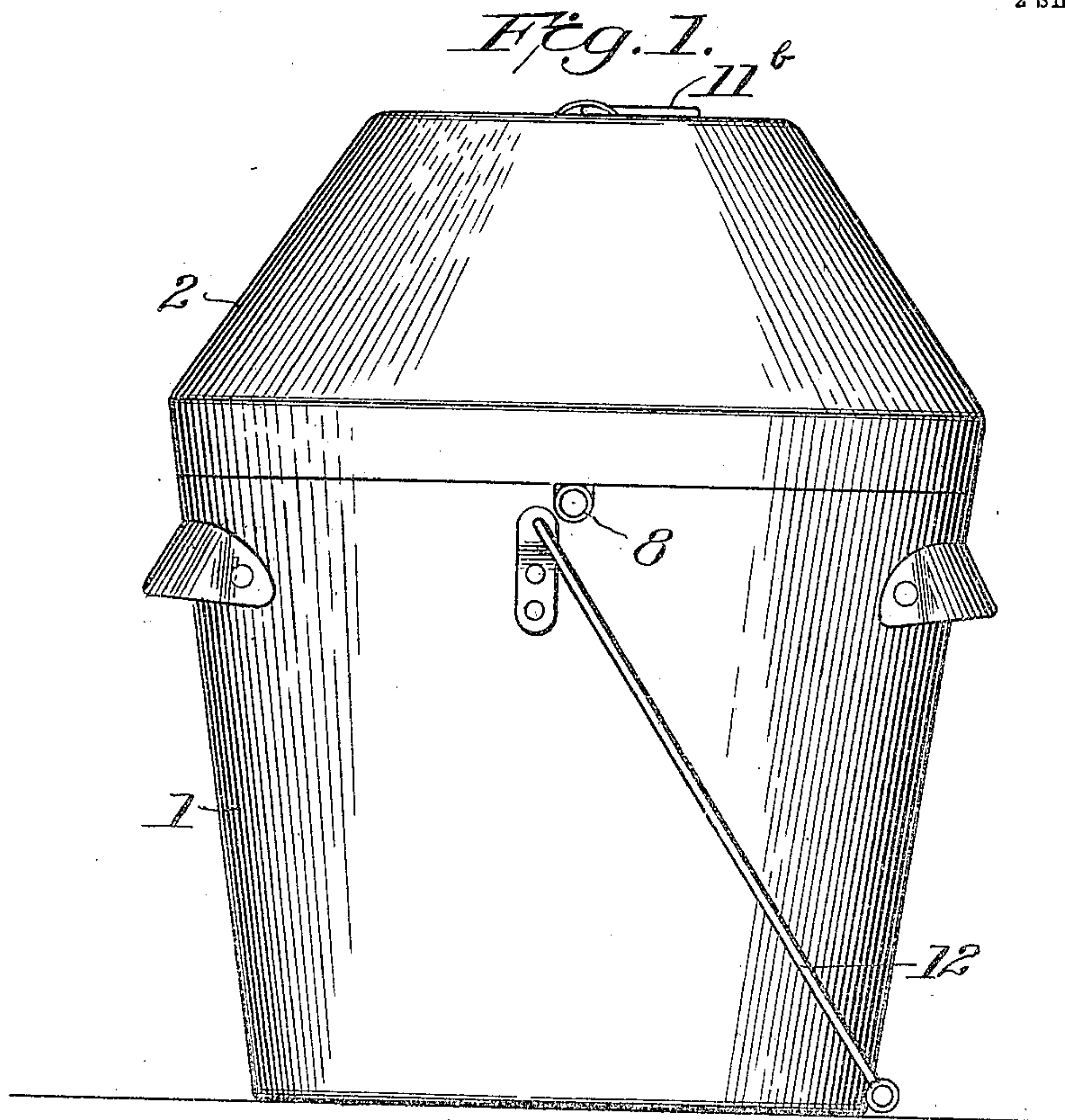


L. I. FLOOD.
REFRIGERATOR PAIL.
APPLICATION FILED MAY 5, 1909.

962,504.

Patented June 28, 1910.
2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.

Fig. 2.

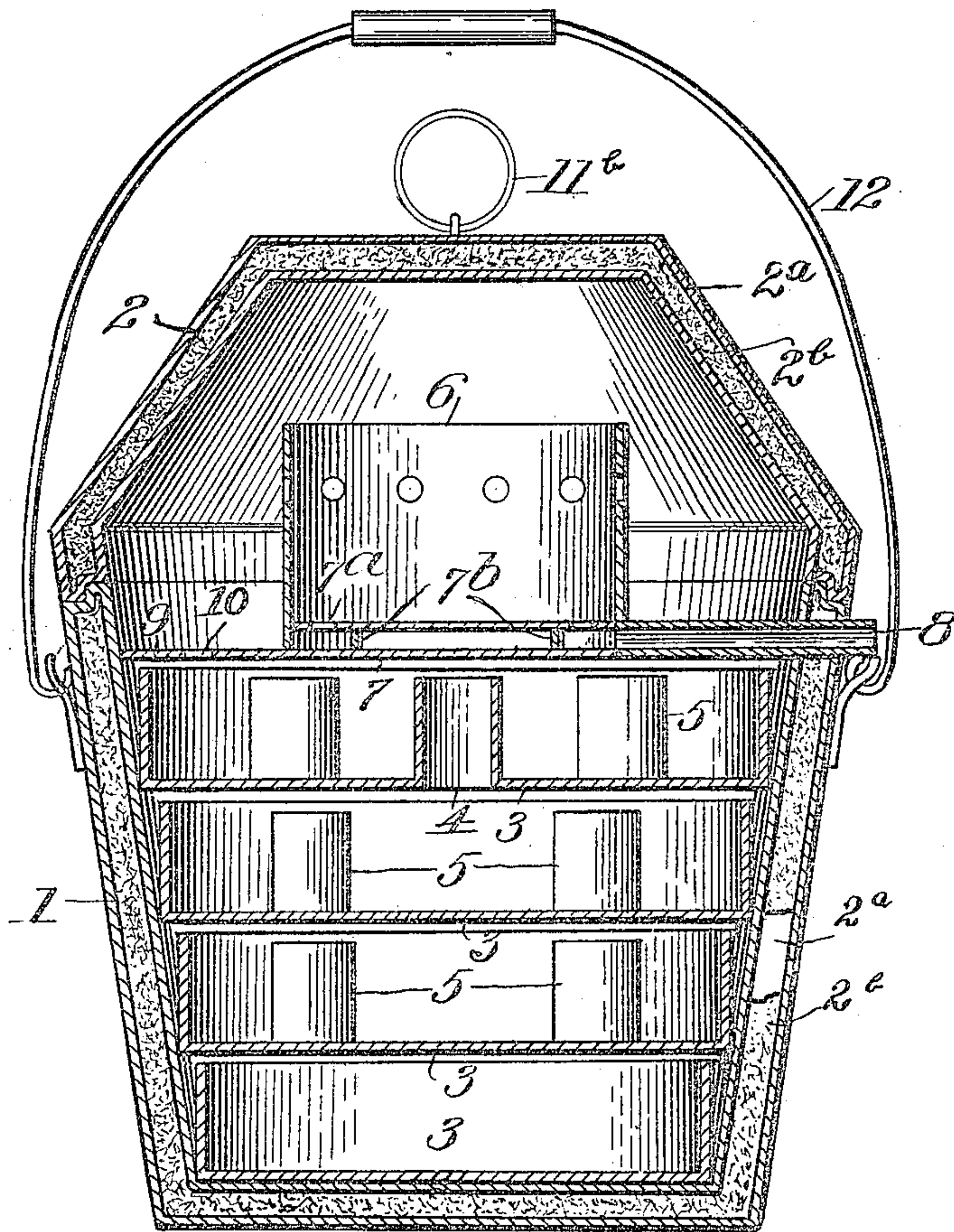


Fig. 5.

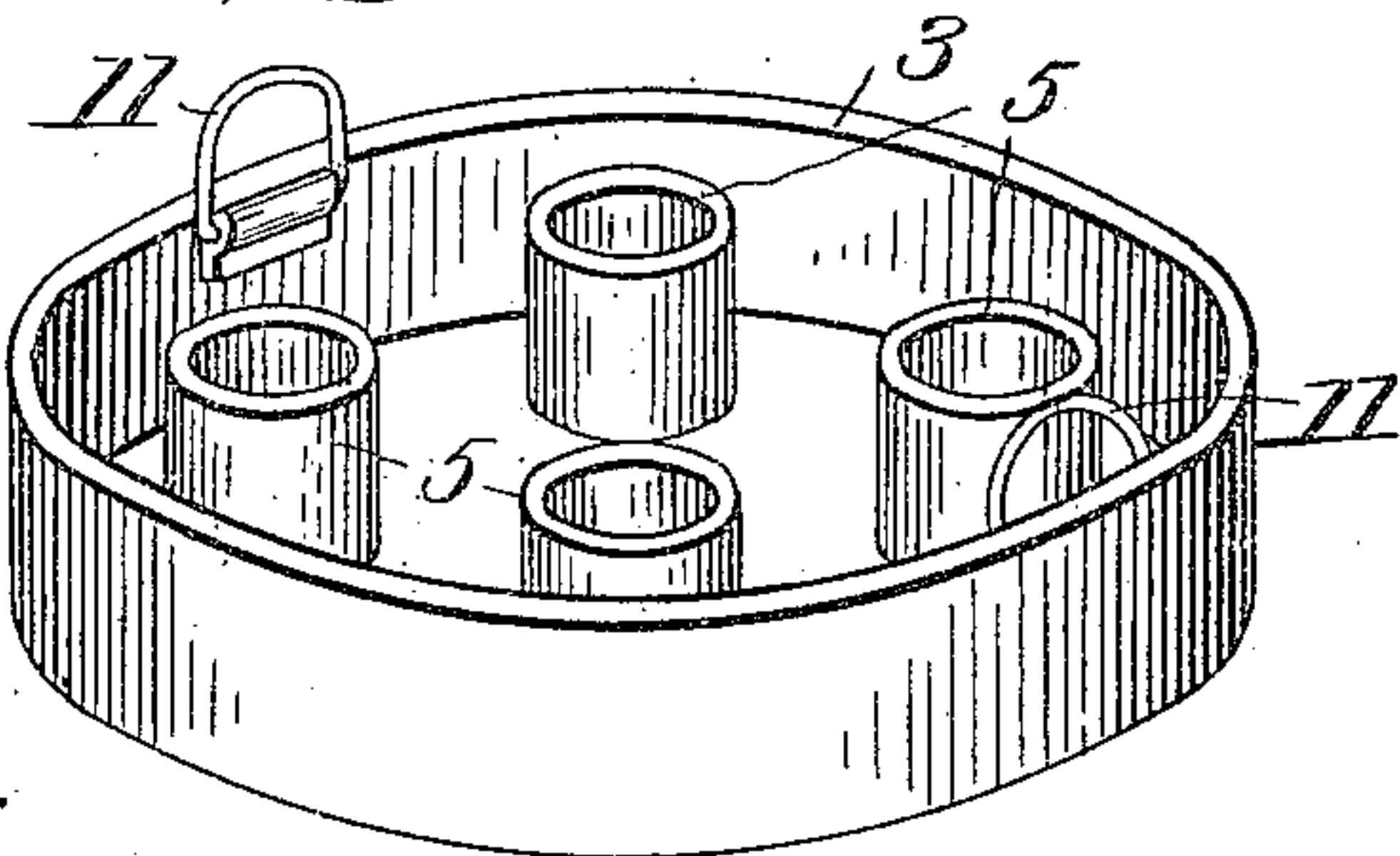
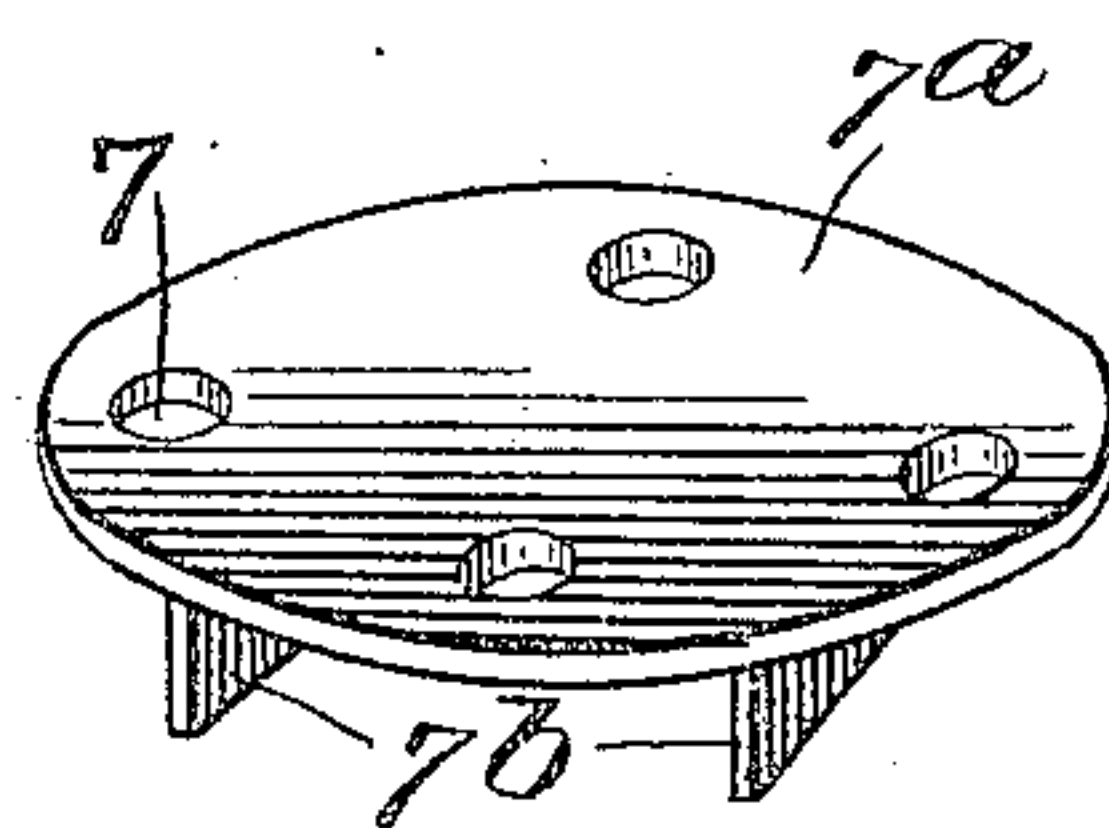


Fig. 4.



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UNITED STATES PATENT OFFICE.

LOUIS I. FLOOD, OF SHELBYVILLE, MISSOURI.

REFRIGERATOR-PAIL.

962,504.

Specification of Letters Patent. Patented June 28, 1910.

Application filed May 5, 1909. Serial No. 494,114.

To all whom it may concern:

Be it known that I, LOUIS I. FLOOD, a citizen of the United States, residing at Shelbyville, in the county of Shelby and State of Missouri, have invented certain new and useful Improvements in Refrigerator-Pails, of which the following is a specification.

My invention pertains to improvements in what may be termed refrigerator pails or vessels.

It has for its object, among other things, to provide a containing receptacle or pail adapted for portable purposes, as for instance, in transporting butter more particularly, locally, so as to be protected from the action of heat or other deleterious causes; and to effect that end in an inexpensive, convenient and effective manner and unattended by any unsanitary objections.

With these objects in view, the invention consists of certain instrumentalities or features substantially as hereinafter fully disclosed and defined by the claims appended to such disclosure.

In the accompanying drawing illustrating the preferred embodiment of my invention which, however, it will be understood, may be varied or adapted to include changes which may fairly fall within the scope of the claims.

Figure 1 is a side elevation of the invention. Fig. 2 is a vertical central section thereof. Fig. 3 is a detached perspective view of the ice receptacle or chamber proper. Fig. 4 is a like view of the supporting means for said receptacle or chamber. Fig. 5 is also a like view of one of the butter-holding trays.

In carrying out my invention, I employ preferably a form of receptacle or pail 1, such for instance, as herein shown, being preferably downwardly tapered toward its bottom, for reasons later disclosed, and having a suitable upwardly tapering cover or closure 2. Said pail and closure may be of metal or wood, or wood and metal conjointly; when of metal, both body and cover or closure are to be formed with a double wall or shell, the intervening space 2^a between the shells or walls thereof being suitably filled in or packed with a non-heat-conducting material 2^b of any desired character as will be readily appreciated for the effective exclusion of heat, from the interior of said pail or receptacle. Said receptacle or pail may

be of any desired containing capacity, according to the quantity of butter or other material it may be desired to accommodate. Agreeably to the foregoing, I place in said pail or receptacle 1, trays, 3, preferably of the general outline disclosed and of such diameter or cross-section as to provide, as they are superposed one with relation to the other, for supporting said trays upon the downwardly tapering lateral surface of said pail practically independent of, and without imposing any weight upon each other. These trays are of a depth which will properly receive pound-quantities of butter, so as to be contained therein without extending above their top edges, to avoid crushing the packages. Said trays are provided with numerous openings 4, through their bottoms for establishing the requisite circulation of cold air throughout the pail chamber or refrigerator, the latter being suitably supplied with ice, as presently disclosed. These openings are fitted with upstanding tubular flanges 5, extending a suitable distance from the bottoms of said trays to prevent the contents of the latter, or the butter therein, overlying said openings, which would of course, hinder or retard the cold-air circulation.

An ice-pan or receptacle 6, preferably of cylindrical shape is provided, the bottom of said ice-pan being extended to form an annular flange 9 adapted to rest upon the inclined walls of the pail or bucket above the uppermost tray, and without impinging upon the latter. The flange 9 is provided with suitable ventilating apertures 10. The flange 9, adjacent to one side of the pan or receptacle is mutilated or provided with a slot or opening 9^a to accommodate a drain pipe 8 leading out through the body of the pail or bucket, which is provided with an opening for the passage of said drain pipe which latter is for the purpose of disposing of the water resulting from the melting of the ice which is placed within the receptacle. The reason for mutilating the flange 9 to accommodate the drain pipe is obviously to place the latter, or more exactly the lower portion of the inner surface of said pipe in exact alinement with the upper surface of the bottom of the ice-pan in order that no water may be left standing which would result in eventually rusting or injuring the bottom of the ice-pan, or which if

left standing might result in unsanitary conditions which it is a prime object of this invention to avoid.

Resting upon the bottom of the ice-pan is an ice-supporting device comprising a flat plate 7^a provided upon its under surface with legs or cleats 7^b whereby said support is raised sufficiently above the bottom of the ice-pan to provide proper drainage. This supporting plate is preferably provided with drain apertures 7.

The trays, the ice-pan and the cover or closure 2 of the pail or bucket are preferably provided with hand-holds or rings designated respectively 11 11^a and 11^b whereby said members may be conveniently lifted and manipulated; said rings or hand-holds being preferably arranged in such a manner that they may be folded against the sides of the trays and the ice-pan and upon the top of the cover so as not to be in the way while in actual use.

From the foregoing description taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood. The construction is simple and inexpensive, and it has been found to be thoroughly efficient for the purposes for which it has provided.

Having thus described the invention, what is claimed is:

1. In a device of the character described, a pail, in combination with an ice-pan having its bottom extended laterally to form a flange that is radially mutilated adjacent to one side of the body of the pan, and a drain-pipe supported upon the mutilated portion of the flange and being connected with the body of the ice-pan and having the lower

portion of its inner surface level with the upper surface of the bottom of the pan, and being extended laterally through the side walls of the pail.

2. In a device of the character described, a pail tapered downwardly, a plurality of trays arranged in said pail and supported upon the inner surface of the downwardly tapered walls of said pail, said trays having cold-air circulation passages through their bottoms and tubular flanges fitted to said passages, an ice-pan supported upon the inclined walls of the pail above and spaced from the uppermost tray, an ice support within said ice-pan and having cleats forming legs resting upon the bottom of the pan, and an upwardly tapered closure for the pail.

3. In a device of the character described, a pail having downwardly tapered side walls, in combination with an ice-pan having its bottom extended laterally to form an annular flange, said flange being radially mutilated adjacent to one side of the body of the pan, and a drain pipe supported upon the mutilated portion of the flange, said drain pipe being connected with the body of the ice-pan with the lower portion of its inner surface level with the upper surface of the bottom of the pan, said drain pipe being extended laterally through the side walls of the pail.

In testimony whereof I affix my signature in presence of two witnesses.

LOUIS I. FLOOD.

Witnesses:

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