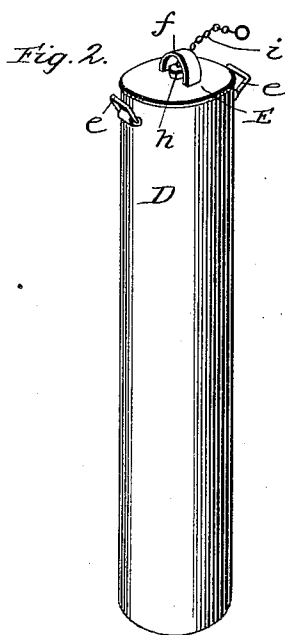
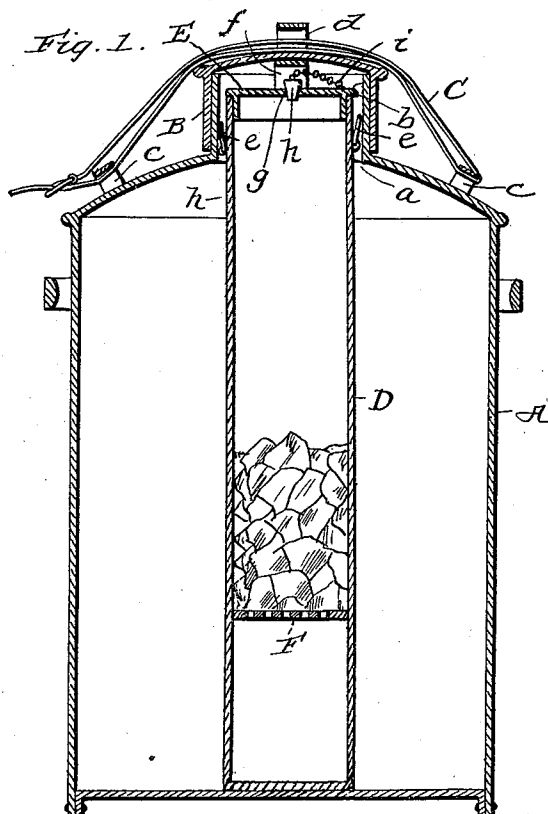


(Model.)

C. N. HUNTER.
SHIPPING REFRIGERATOR.

No. 567,141.

Patented Sept. 8, 1896.



witnesses:

C. A. Raider
H. F. Matthews.

Inventor

Chas. N. Hunter.

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Attorney

UNITED STATES PATENT OFFICE.

CHARLES N. HUNTER, OF VERSAILLES, INDIANA.

SHIPPING-REFRIGERATOR.

SPECIFICATION forming part of Letters Patent No. 567,141, dated September 8, 1896.

Application filed January 4, 1893. Serial No. 457,296. (Model.)

To all whom it may concern:

Be it known that I, CHARLES N. HUNTER, of Versailles, Indiana, have invented a new and useful Improvement in Shipping-Refrigerators, of which the following is a full, clear, and exact description, such as will enable those skilled in the art to make and use the same.

My invention relates to improvements in that class of transporting devices which are provided with a central ice-receptacle for keeping their contents cool and with means for receiving and holding the upper end of such receptacle; and its novelty and advantages will be fully understood from the following description and claim when taken in connection with the accompanying drawings, in which—

Figure 1 is a vertical section of a milk-can embodying my improvements, and Fig. 2 is a perspective view of the ice-receptacle removed from the can.

Referring by letter to said drawings, A indicates a milk-can having the usual opening *a*, surrounded by the collar-flange *b*, and also having the loops *c* on its top on opposite sides of the flange *b*.

B indicates the cover of said can, which is designed to take over the collar-flange *b*, and is provided on its upper side with a loop *d*.

C indicates a strap which is provided with a buckle, and is designed to be passed through the loops *c* of the can-top and the loop *d* of the cover to secure said cover on the can and yet permit of its ready removal when desired.

D indicates my improved ice-receptacle, which is designed to be placed within the can A, as shown in Fig. 1. This receptacle D is provided upon opposite sides adjacent to its upper end with handles *e*, whereby it may be readily lifted out of the can when desired, and said receptacle is also provided with a cover E, as shown. The said cover E is provided with a handle *f*, and is also provided below said handle with a vent-aperture *g*, which may be closed when desired by a plug *h*, to which a chain *i* is connected to permit of its being readily drawn from the aperture when it is desired to have the same open.

As better shown in Fig. 1 of the drawings, the ice-receptacle D' is made of such a length

that it extends from the bottom of the can, upon which it rests flat, up within the collar-flange *b* of the can to the top of said flange 55 for a purpose presently described. The ice-receptacle D is also of such diameter that it fits tightly within the flange *b*, whereby it will be seen that when properly placed in the can said receptacle will be securely held by 60 the flange *b* in an upright position in the center of the can without the assistance of any other device.

The ice is supported in the receptacle D by a foraminated diaphragm F, arranged at 65 about the proportional elevation illustrated, and this diaphragm, in addition to permitting water to drop away from the ice, so as to retard melting thereof, serves to support the ice at a distance above the bottom of the can, 70 so that any heat that penetrates the bottom of the can will be prevented by the water in the bottom of the ice-receptacle from reaching the ice.

In using my improved can the milk or other 75 substance to be shipped in the can is first placed therein and the receptacle D, after being charged with ice and properly covered, is then introduced to the position shown in Fig. 1. The cover B of the can is then placed 80 over the flange *b* and is secured in position by the strap C in the manner before described.

The cover B rests immediately above and bears upon the handle *f* of the cover E of the ice-receptacle and when secured in position by the strap C said cover B effectually 85 prevents vertical movement of the ice-receptacle and prevents said receptacle, when the can is handled roughly, from knocking off the cover B. 90

It will be appreciated from the foregoing that milk and other perishable substances may be shipped long distances in my improved can without being soured or otherwise affected by heat, and this without diluting the milk, as is done when ice is placed 95 in the same. It will also be appreciated that when the weather is cold and ice is not required to keep the milk fresh the receptacle D may be charged with cream and the same 100 may be shipped in the same can as the milk, but separate therefrom.

When the can reaches its destination and the milk is removed therefrom, the ice and

also the water that has collected below the diaphragm F in the receptacle D may be removed from said receptacle by simply removing the cover of the receptacle and turning the same upside down.

5 I am well aware that a transporting device provided with a central ice-receptacle and with means for receiving and holding the upper end of such receptacle is broadly old, and
10 I therefore make no claim to the same; but

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

The herein-described device for transporting milk and perishable goods, consisting essentially of the can A, having the opening a,
15 in its top and the vertical collar-flange b, surrounding said opening and also having the loops c on its top on opposite sides of the flange b, the cover having the depending flange surrounding the collar-flange b, and also having
20

the loop d, the upright ice-receptacle D, removably placed within the can and resting flat at its lower end upon the bottom of the can and having the removable cover provided with a handle upon its upper side and also having
25 the ice-supporting foraminated diaphragm F, at an intermediate point of its length; the said receptacle D, extending from the bottom of the can up within the collar-flange b, and impinging at its upper end against the cover
30 B, and fitting snugly within the collar-flange, and the strap C, taking through the loops c, of the can and loop d, of the cover and removably securing said cover in position, substantially as and for the purpose set forth. 35

CHARLES N. HUNTER.

Witnesses:

ALFRED G. HUNTER,
RUSSEL T. OLMSTED.