

No. 659,150.

Patented Oct. 2, 1900.

R. B. KING.
COOLER FOR MILK CANS.

(Application filed Aug. 2, 1900.)

(No Model.)

Fig. 1.

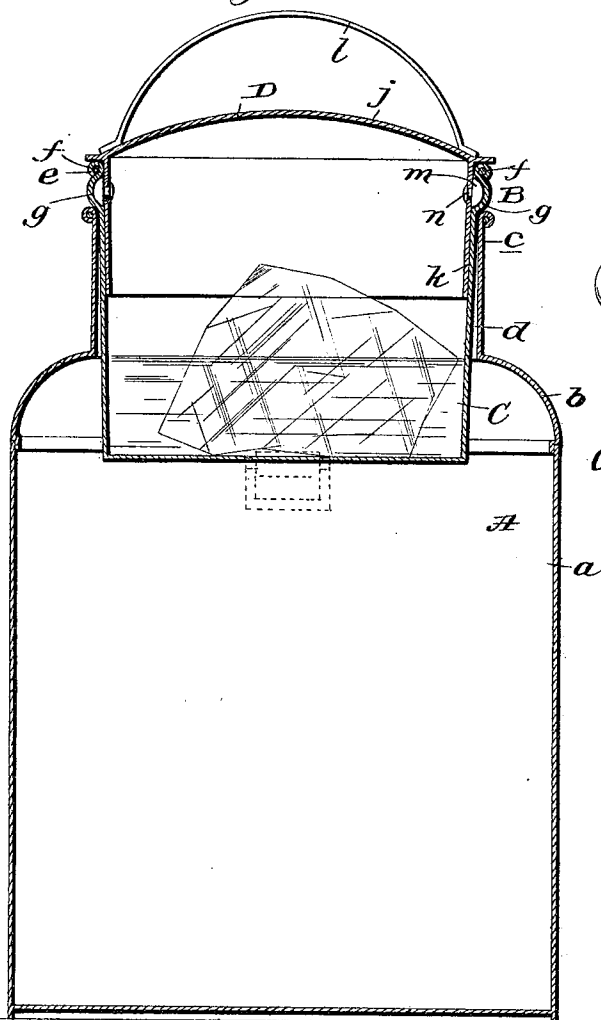


Fig. 2.

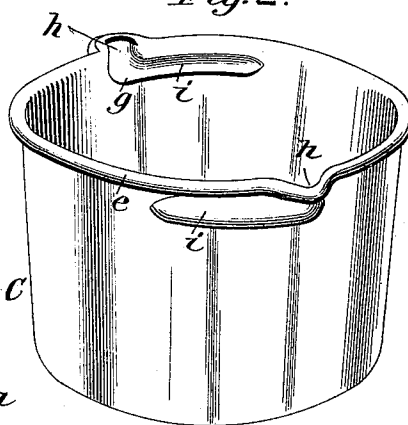
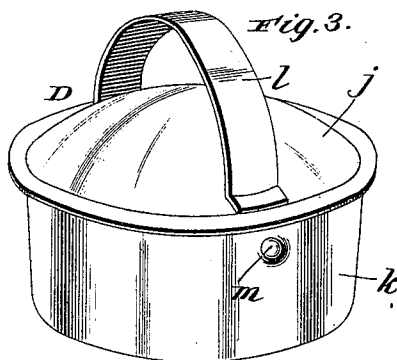


Fig. 3.



Witnesses:

Chas. Ruder
Thomas E. Turpin

Inventor
Robert B. King
BY
James Shuckey
Attorney

UNITED STATES PATENT OFFICE.

ROBERT B. KING, OF BRISTOL, PENNSYLVANIA.

COOLER FOR MILK-CANS.

SPECIFICATION forming part of Letters Patent No. 659,150, dated October 2, 1900.

Application filed August 2, 1900. Serial No. 25,700. (No model.)

To all whom it may concern:

Be it known that I, ROBERT B. KING, a citizen of the United States, residing at Bristol, in the county of Bucks and State of Pennsylvania, have invented new and useful Improvements in Coolers for Milk-Cans, of which the following is a specification.

My invention relates to improvements in that type of milk-coolers which are designed to rest in the mouths of milk-cans and serve the additional purpose of stoppers therefor.

It consists in a certain peculiar construction the novelty, utility, and advantages of which will be fully understood from the following description and claim when taken in connection with the annexed drawings, in which—

Figure 1 is a diametrical section illustrating my improved cooler in its operative position in the mouth of an ordinary milk-can. Fig. 2 is a perspective view of the body of the cooler, and Fig. 3 is a similar view of the cover thereof.

In the said drawings similar letters of reference designate corresponding parts in all of the views, referring to which—

A is a milk-can having a body *a*, a breast *b*, a neck *c*, and a mouth *d*, and B is my improved cooler, which comprises a body C and a cover D therefor and is preferably formed of the same kind of metal as the can. The body C of the cooler is circular in form and is slightly tapered or gradually reduced in diameter toward its bottom in order that it may be wedged in the mouth of the can to tightly close the same. It is provided at its upper edge with a bead *e*, which contains a stiffening and strengthening wire *f*, and is also provided with two bayonet-ways *g*, the said ways comprising vertically-disposed portions *h*, formed by pressing the bead *e* and wire *f* therein outwardly, as best shown in Fig. 2, and horizontally-disposed portions *i*, formed by pressing the side wall of the body outwardly, which horizontally-disposed portions *i* are also disposed in opposite directions, as illustrated. The cover D of the cooler comprises a cap *j*, a flange *k* depending therefrom and tapered in conformity to the body C in order to effect an air-tight closure thereof, and a handle *l*, which is disposed above and connected at its ends to the cap. Said cover is provided at diametric-

ally-opposite points on its depending flange *k* with protuberances *m*, which are preferably formed by rivets clenched and soldered to the inside of the flange, as indicated by *n* in Fig. 1, and are designed to operate in conjunction with the bayonet-ways *g* of the body C to secure the cover therein in an air-tight manner.

In using my improved cooler a small quantity of ice is placed in the body C thereof, and the cover D is placed in the upper end of the body, with its protuberances *m* coincident with the vertical portions *h* of the bayonet-ways *g*, and is pressed downwardly to close the cooler in an air-tight manner, and is then partially turned to carry the said protuberances into the horizontal portions *i* of the bayonet-ways and securely fix it in the body. The cover D is pressed downwardly and turned in the body C through the medium of the handle *l*, which also serves to facilitate placing the cooler in and removing it from the mouth of the milk-can.

When the cooler, with a small quantity of ice therein, is placed and pressed downwardly in the mouth of the can, it serves to effect a tight closure of the same and also to keep the contents of the can in a cool and wholesome condition, this latter being due to the fact that the cold air from the ice in the cooler descends through the milk in the can. Owing to the air-tight closure of the cooler a small quantity of ice will last therein for a considerable length of time and serve to keep the milk in the can in a cool and wholesome condition.

The cooler is preferably of the proportional size illustrated, and hence takes up only about one-twentieth part of the capacity of the can. It is also advantageous to have the cooler of the proportional size illustrated, for it will be seen that it may be handled—*i. e.*, placed in and removed from the mouth of a can—with the same facility as an ordinary can stopper or cover. It will also be seen that by virtue of its having the handle and being adapted to be closed in an air-tight manner the cooler is susceptible of being used to advantage as a receptacle for carrying ice from place to place. It will be appreciated from the foregoing that my improved cooler, notwithstanding its advantages, is very simple and may therefore be produced almost as cheaply as the

ordinary can-cover. It will also be appreciated that while the cover D may be quickly and easily secured in and removed from the body C of the cooler there is no liability of its
5 being casually disconnected from said body incident to the handling of the cooler or the placing of the same in or the removal of the same from the mouth of a can.

I have entered into a detailed description
10 of the construction and relative arrangement of the parts of my improved cooler in order to impart a full, clear, and exact understanding of the same. I do not desire, however, to be understood as confining myself to such specific construction and arrangement of parts,
15 as such changes or modifications may be made in practice as fairly fall within the scope of my claim.

Having described my invention, what I
20 claim, and desire to secure by Letters Patent, is—

The combination with the milk-can having the neck *c* and the mouth *d*; of the removable, combined cooler and stopper consisting
25 essentially of the body adapted to contain

ice, and tapered or gradually reduced in diameter toward its bottom whereby it is enabled to snugly occupy the mouth and tightly engage the neck of the can, and having the oppositely-disposed bayonet-ways adjacent to
30 its upper edge, and the removable cover for the body having the handle *l*, and also having the depending flange tapered in conformity to the body and of a diameter to snugly fit into the upper portion thereof, and the exterior protuberances on said flange adapted
35 to enter the bayonet-ways of the body, whereby it is necessary in connecting the cover to or disconnecting it from the body to move said cover vertically and partially turn the
40 same, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ROBERT B. KING.

Witnesses:

FREDERICK STUCKERT,
FRED. E. MILBURN.