

G. W. FLUKE.

Cans for Cooling Milk During Transportation.

No. 151,016.

Patented May 19, 1874.

Fig. 1.

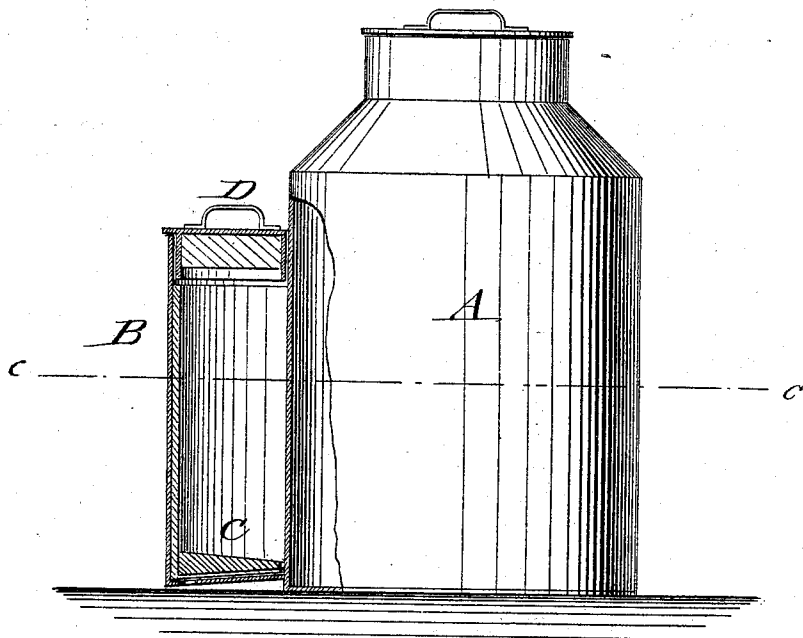
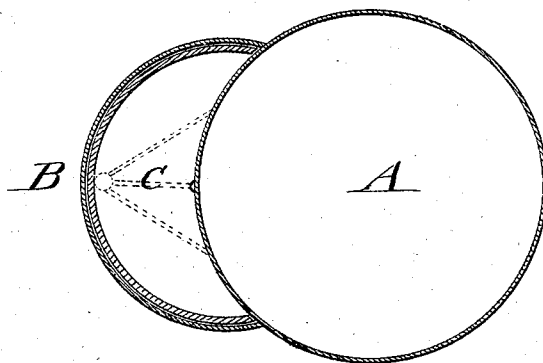


Fig. 2.



WITNESSES.

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UNITED STATES PATENT OFFICE.

GEORGE W. FLUKE, OF MOUNT PLEASANT, IOWA.

IMPROVEMENT IN CANS FOR COOLING MILK DURING TRANSPORTATION.

Specification forming part of Letters Patent No. **151,016**, dated May 19, 1874; application filed May 1, 1874.

To all whom it may concern:

Be it known that I, GEORGE W. FLUKE, of Mount Pleasant, in the county of Henry and State of Iowa, have invented a new and Improved Can for Cooling Milk during Transportation, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation, partly in section through the ice-chamber, of my improved can for cooling milk during transportation; and Fig. 2, a horizontal section of the same on the line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention relates to improvements on the can for cooling milk during transportation patented to me under date of March 3, 1874, and No. 148,114, by which the ice-chamber may be made in smaller size, saving space in shipping the cans, and also the ice consumed be considerably economized. My invention consists in providing the additional vessel or ice-chamber of the milk-can with an inside lining of wood, or other non-conductor, at the side wall, top, and bottom of the same, with the exception of the portion of the main can inside of the ice-chamber. The inclined false bottom is grooved at the under side for conducting the melted water to the exit-opening of the true bottom.

A in the drawing represents the milk-can; B, the side attachment, vessel, or chamber, into which the ice is placed for cooling the milk during transportation. The outwardly-inclined true bottom of chamber B conducts the water off through an exit perforation, while the false bottom C is inclined toward

the wall of the milk-can A to carry and retain the ice in position on the same for readier cooling. The false bottom C is made of wood with grooves at the outwardly-inclined under side for conducting the water to the exit perforation of the true bottom. The inside of the wall of chamber B is lined with wood or other non-conductor of heat, and also the cover D of the same, so that the ice is surrounded on all sides by non-conducting material, except at the portion of the milk-can inside of the ice-chamber on which the cooling influence of the ice is to be exerted. The melting of the ice is retarded by the lining of the outer walls and the effect of the ice on the milk increased. A considerable saving of ice is thereby obtained; and also, on account of the increased efficacy of the same, a reduction of the size of the ice-chamber admissible, which allows the arrangement of a greater number of cans in the cars, wagons, &c., by taking up less space in shipping the same.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with a milk-can, A, of a vessel or ice-chamber, B, having inwardly-inclined false bottom C of non-conducting material, and inside lining of outer wall and top of non-conducting material, the portion of the milk-can inside of the ice-chamber being left free and directly exposed to the ice for the purpose of fully utilizing and economizing the same, substantially in the manner set forth.

GEORGE W. FLUKE.

Witnesses:

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C. D. BEVANS.