

(No Model.)

J. B. MOORE.

MILK COOLER.

No. 246,534.

Fig. 1. Patented Aug. 30, 1881.

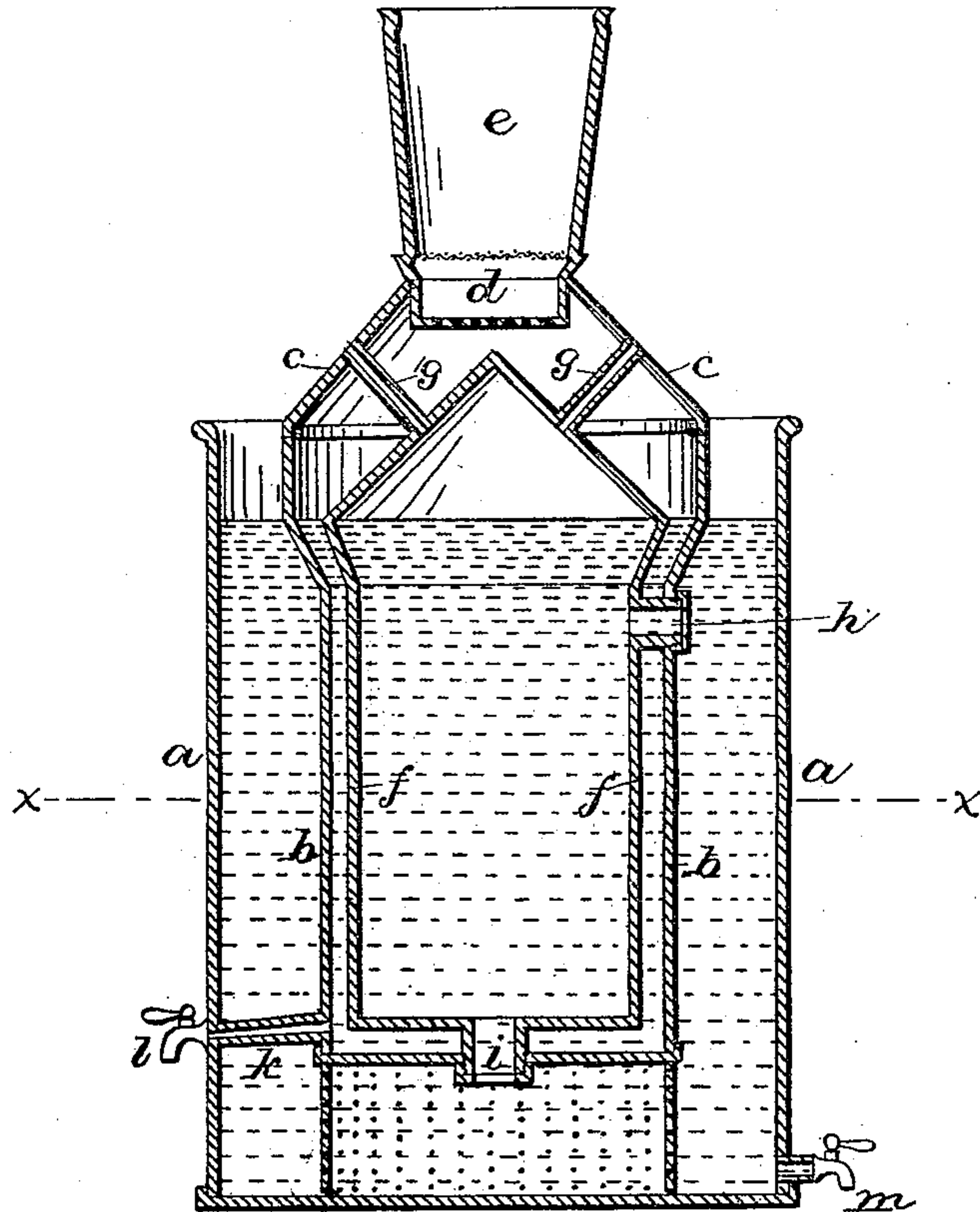
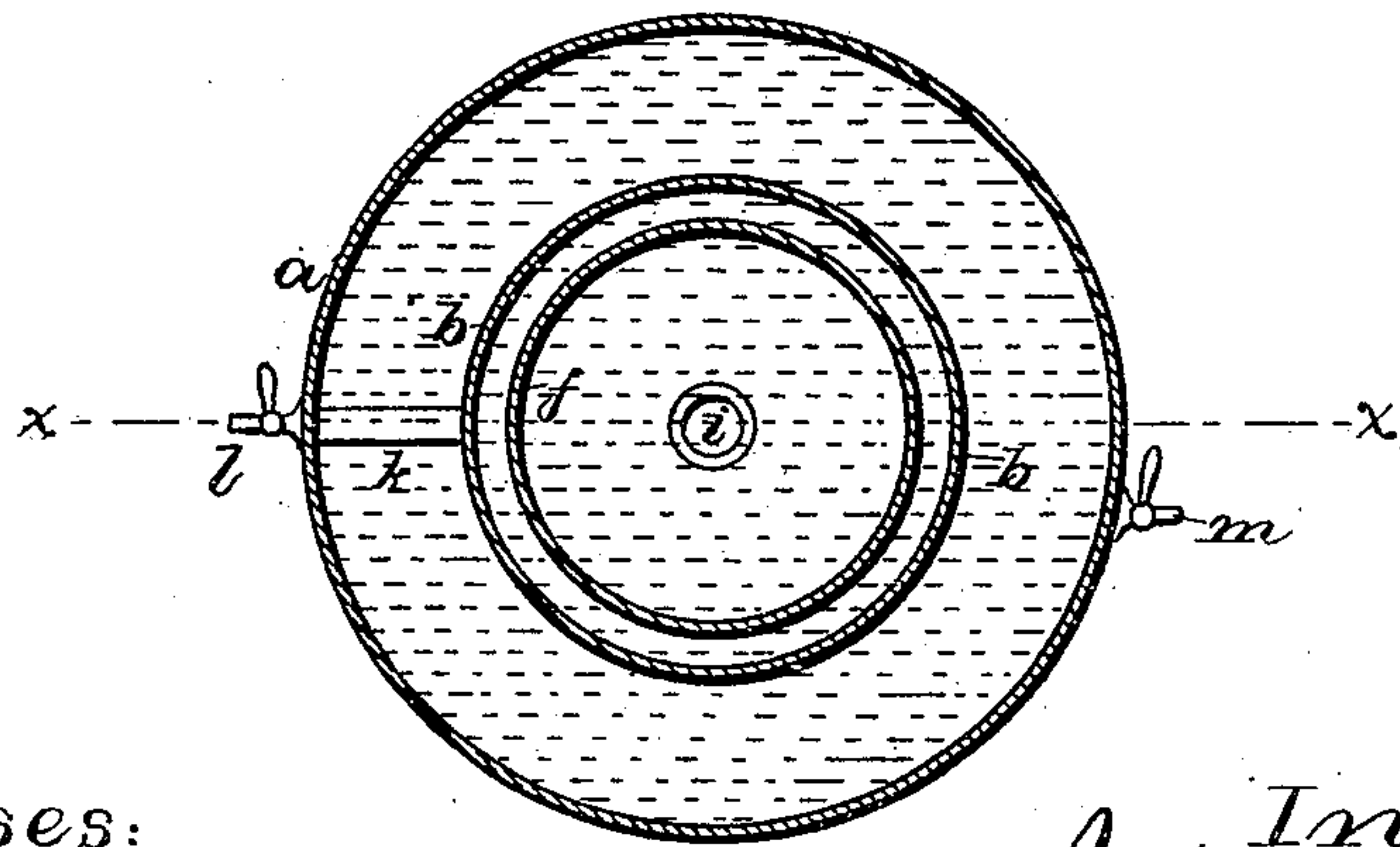


Fig. 2.



Witnesses:

J. W. Garner
A. S. D. Barnes

Inventor:
John B. Moore,
by his attorney
Howard A. Brown.

UNITED STATES PATENT OFFICE.

JOHN B. MOORE, OF BRUSH CREEK, IOWA.

MILK-COOLER.

SPECIFICATION forming part of Letters Patent No. 246,534, dated August 30, 1881.

Application filed June 22, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. MOORE, a citizen of the United States of America, residing at Brush Creek, in the county of Fayette and State of Iowa, have invented certain new and useful Improvements in Milk-Coolers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in milk-coolers; and it consists of a peculiar construction and arrangement of devices, whereby a very large cooling-surface can be brought to act upon the milk, thus producing a cheap and rapid milk-cooler, as will be more fully described hereinafter.

The accompanying drawings illustrate my invention. Figure 1 is a vertical sectional view. Fig. 2 is a cross-section.

a represents a can of any desired size and construction, on the inside of which is placed a second and much smaller can, *b*, supported some distance from the bottom of the can *a*, so as to leave a space between them. The can *b* is provided with a removable cover, *c*, a strainer, *d*, and a suitable funnel-shaped opening, *e*, as shown.

f represents a third can, slightly smaller than the can *b*, and placed inside it, being supported at a little distance from the bottom of the can *b*, as in the previous instance. The can *f* is provided with vent-tubes *g*, which extend through the movable cover *c*, and thus establish free communication between the inside of the can *f* and the atmosphere, so that the air can readily escape when the water rises in the can. Near the top the can *f* is provided with a tube, *h*, which extends outward through the can *b*, thus establishing communication between the cans *f* and *a*. A second tube, *i*, precisely like the tube *h*, connects the cans *f*

and *a* at the bottom of the can *f*. These tubes are provided with flanged, packed, screw-threaded heads, so that the cans may be taken apart and cleaned. The can *b* is provided at the bottom with a pipe, *k*, which extends through the outside of the can *a*, where it terminates in a faucet, *l*. The can *a* is provided with a faucet, *m*. The top of the can *f* is cone-shaped, made larger than the body, and rigidly fixed thereto, as shown. By having the top of the can thus shaped the warm milk poured through the strainer *d*, striking and flowing down the sides of the cone in a spray into the space between the cans *f* and *b*, and striking the inner wall or side of can *b*, is more rapidly cooled than in other milk-coolers. The upper part of can *b* is also made larger to conform to the can *f*, as shown.

The operation of my invention is as follows: Water is poured into the outer can, *a*, which flows through the tubes connecting it with the inside can, *f*, whereby the water rises to the same level in both cans *a* and *f*, as shown. The milk is poured into the funnel at the top of the can *b*, passes through the strainer *d* down the sides of the cone-shaped top of the can *f*, and into the can *b*, filling the space between the inside of the can *b* and the outside of the can *f*. The milk is thus placed between two large cooling-surfaces, whereby it is quickly and thoroughly cooled. The faucet *l* enables the milk to be readily drawn off when cooled.

Having thus described my invention, I claim—

The combination of the can *a* with the can *b*, having removable cover *c*, strainer *d*, and outlet *k*, and can *f*, having cone-shaped top, provided with vent-tubes *g* and outlets *h* and *i*, arranged and operated as set forth.

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

JOHN B. MOORE.

Witnesses:

WM. MARSHALL,
C. H. MARSHALL.