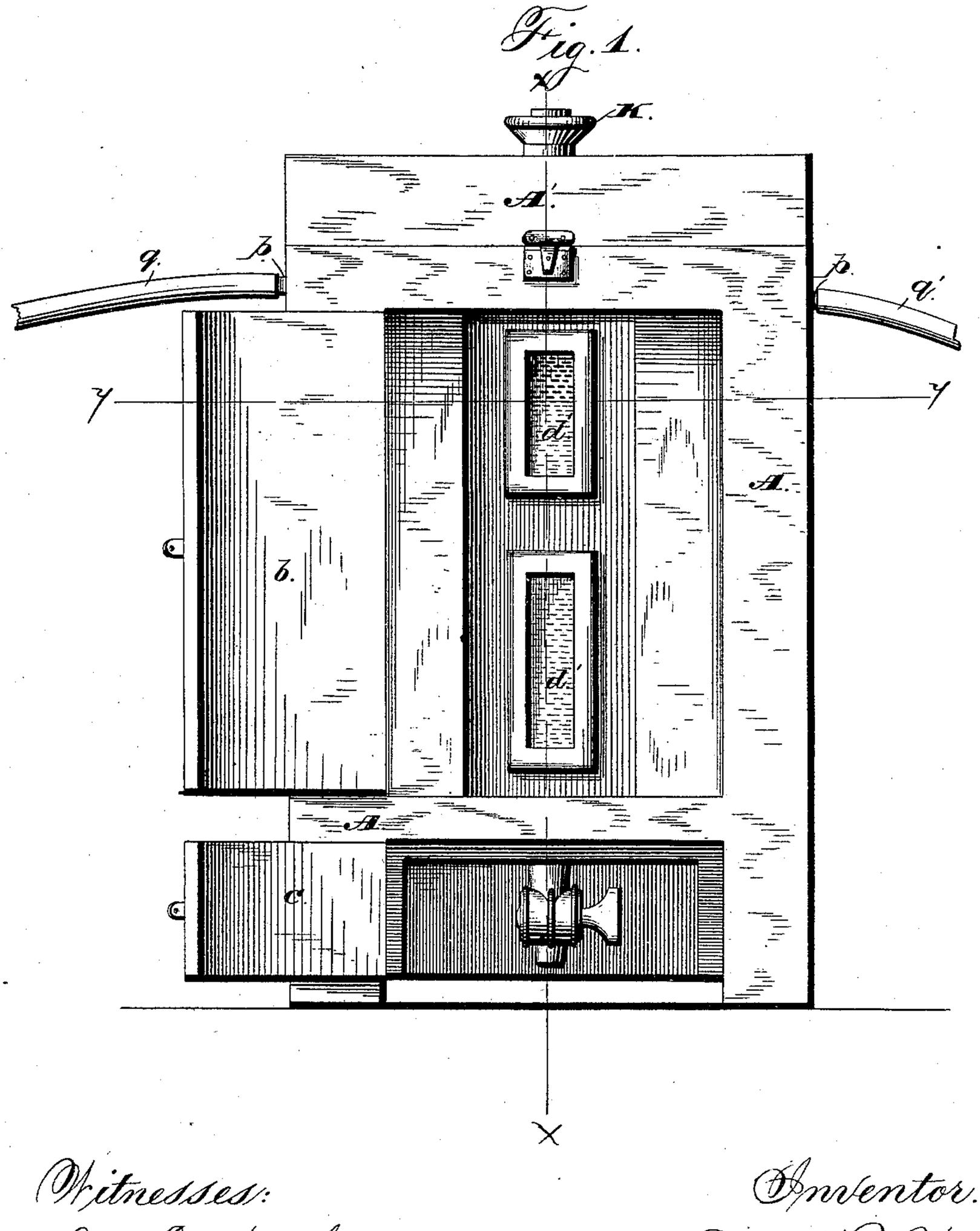
(No Model.) 2 Sheets—Sheet 1.

D. B. WOOSTER.

MILK COOLER.

No. 285,773. Patented Sept. 25. 1883.

Fig. 1.



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(No Model.) 2 Sheets—Sheet 2.

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MILK COOLER.

No. 285,773. Patented Sept. 25, 1883.

Fig. 2.

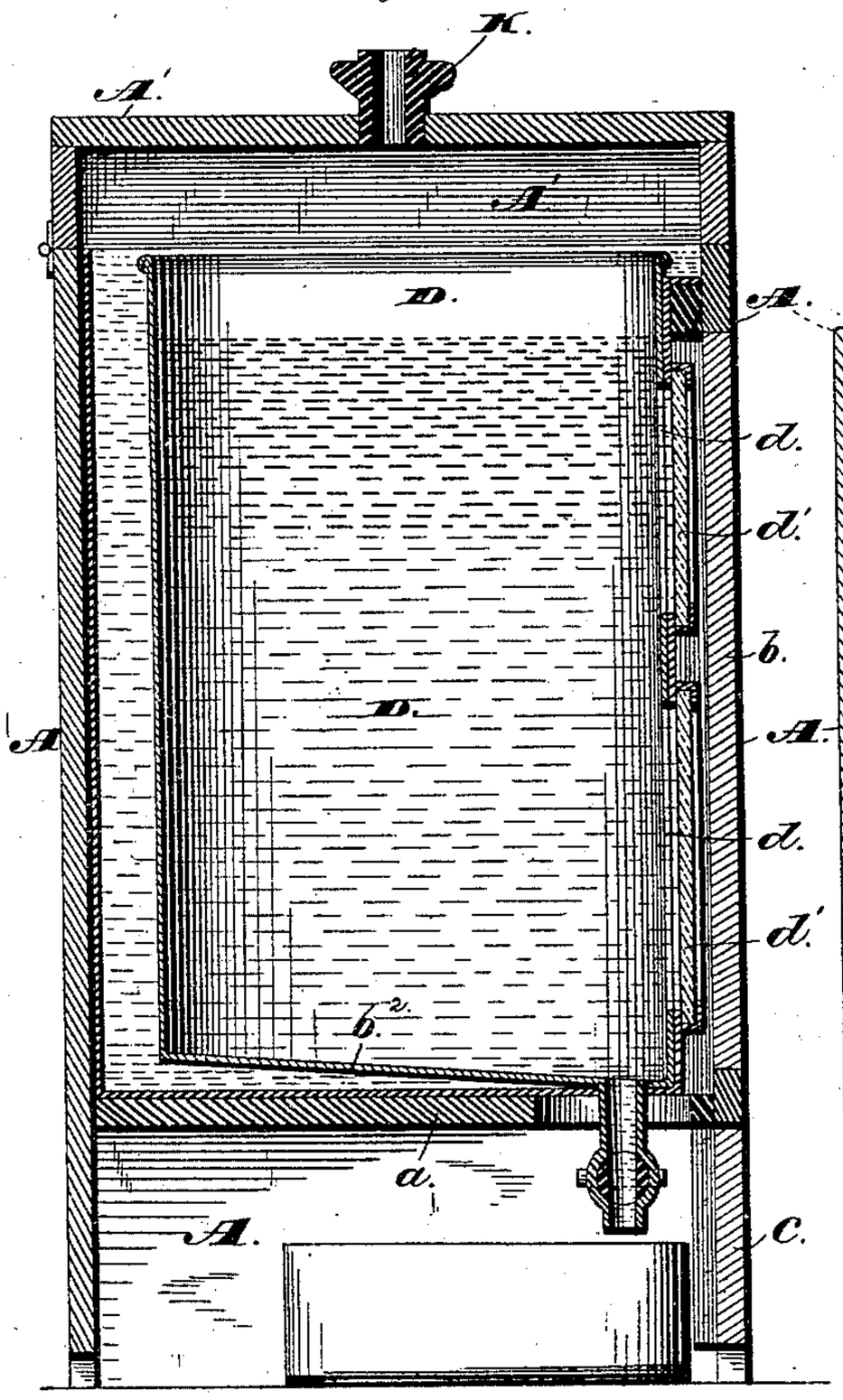
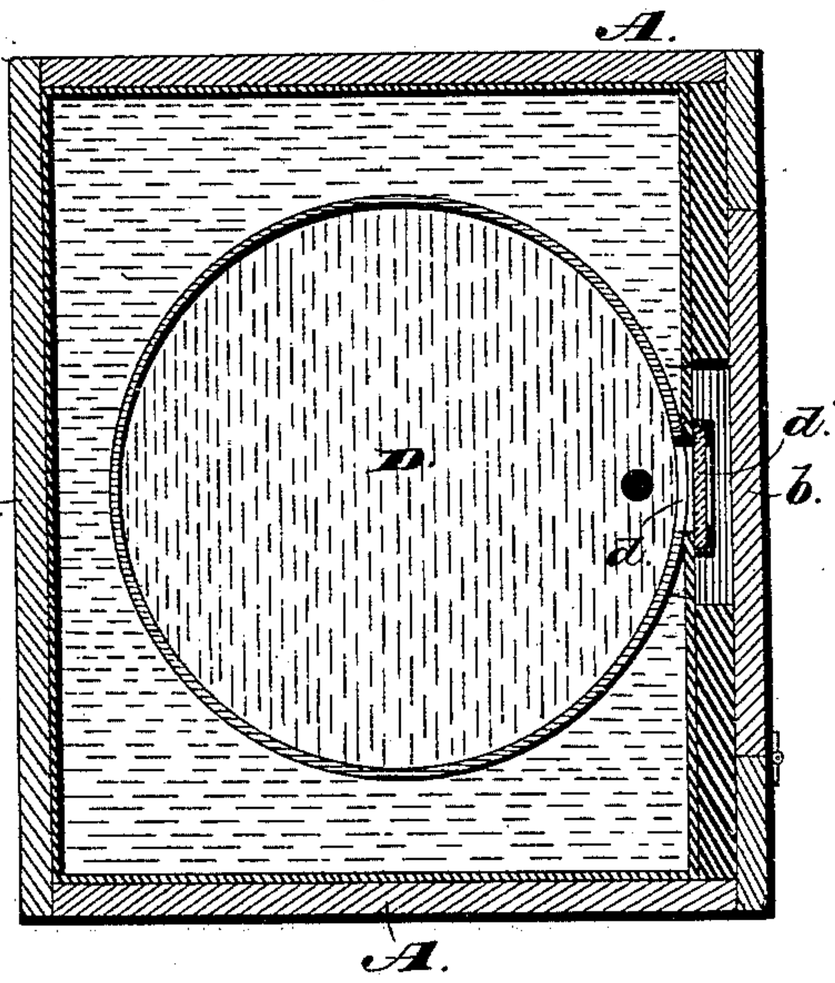


Fig. 3.



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UNITED STATES PATENT OFFICE.

DANIEL B. WOOSTER, OF MARSHFIELD, VERMONT.

MILK-COOLER.

SPECIFICATION forming part of Letters Patent No. 285,773, dated September 25, 1883.

Application filed March 12, 1883. (No model.)

To all whom it may concern:

Be it known that I, DANIEL B. WOOSTER, of Marshfield, in the county of Washington and State of Vermont, 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 pertains to make and use the same.

This invention relates to that class of milk-coolers in which a sheet-metal milk-receptacle is arranged within a cooling-chamber and in contact with a refrigerating medium contained in said chamber.

The objects of the improvement are to afford a ready inspection of the contents of the milk-receptacle, in order to ascertain the quantity of cream raised without interrupting the process of its raising, and to provide for a continuous supply of cold water about the milk-receptacle.

The invention consists in certain novel constructions and combinations of parts, which will be hereinafter particularly described, and pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a front elevation of a milk-cooler constructed according to my invention, with the front doors open. Fig. 2 is a vertical section of the same on line *x x*, Fig. 1. Fig. 3 is a horizontal section on the line *y y*, Fig. 1.

The letter A indicates a cabinet or casing the interior of which is divided into two compartments by a horizontal partition, *a*, said compartments being provided with doors *b* and *c*, respectively. The upper and larger compartment is lined with sheet metal, and is water-tight. Within this upper compartment is arranged a cylindrical sheet-metal milk-receptacle, D, which does not come in contact with the vertical wall of the chamber in which it is arranged, except at the front, and there it is provided with openings *d*, which coincide with similar openings in the sheet-metal lining of the chamber. The wall of the milk-receptacle and the sheet-metal lining of the chamber are in contact and soldered together around these openings, and in front of and closing these openings are transparent panes of glass *d' d'*, which permit of the inspection of the contents of the milk-receptacle when the upper door of the cabinet is open.

When the cooler is in use, the chamber about the milk-receptacle is filled to a proper height with cold water, which surrounds the milk-receptacle, except at the front portion, where it is connected with the lining of the inclosing-chamber. It will now be observed that when the upper door of the cabinet is open, the glass panes will be fully exposed, and through them will be observed the progress of the raising of the cream upon the milk, and when said door is closed the openings will be protected, so that the outer air may not, by its contact with the glass panes, affect the temperature of the milk to retard the raising of the cream. The bottom b^2 of the milk-receptacle inclines downward from rear to front, and is not in contact with the bottom of the inclosing-chamber, except at its front portion, where it is soldered to said bottom around openings in both bottoms. From the opening in the bottom of the milk-receptacle a discharge-pipe leads downward through the partition *a*, and terminates below the same at a proper elevation to permit the placing under it of vessels, into which milk is to be drawn, said spout being provided with a suitable stop-cock. Owing to the inclined position of the bottom of the milk-receptacle, the milk and cream may flow freely through the discharge-opening even when but little remains to be discharged; and another advantage of this inclined bottom is that the cooling-water flows under and is in contact with it as well as with the vertical wall of the receptacle. Near the top of the cabinet pipes *p p* lead through opposite side walls to its interior, a little below the top of the milk-receptacle. To the outer projecting ends of these pipes may be attached hose *q q'*, or other tubing, the one serving to supply cold water to the interior of the cabinet, while the other provides for the overflow. I may thus constantly renew the water-supply to keep it at a sufficiently low temperature for the most effective creaming of the milk.

The lid A' of the cabinet is hinged thereto, and provided at its center with a lifting-knob,

K, through which is formed an opening into the interior of the cabinet for the purpose of ventilation.

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

The combination, with the refrigerating-chamber having a doorway at one side, and provided with a sheet-metal lining having openings covered by panes of glass, of the inclosed sheet-metal receptacle having the inclined bottom resting at its lower edge upon the lining, and having the discharge-pipe, said vessel being provided with openings coincident with those in the lining, and attached to the said lining around the coincident openings, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

DANIEL B. WOOSTER.

Witnesses:
E. M. WOOSTER,
E. J. MOORE.