

(No Model.)

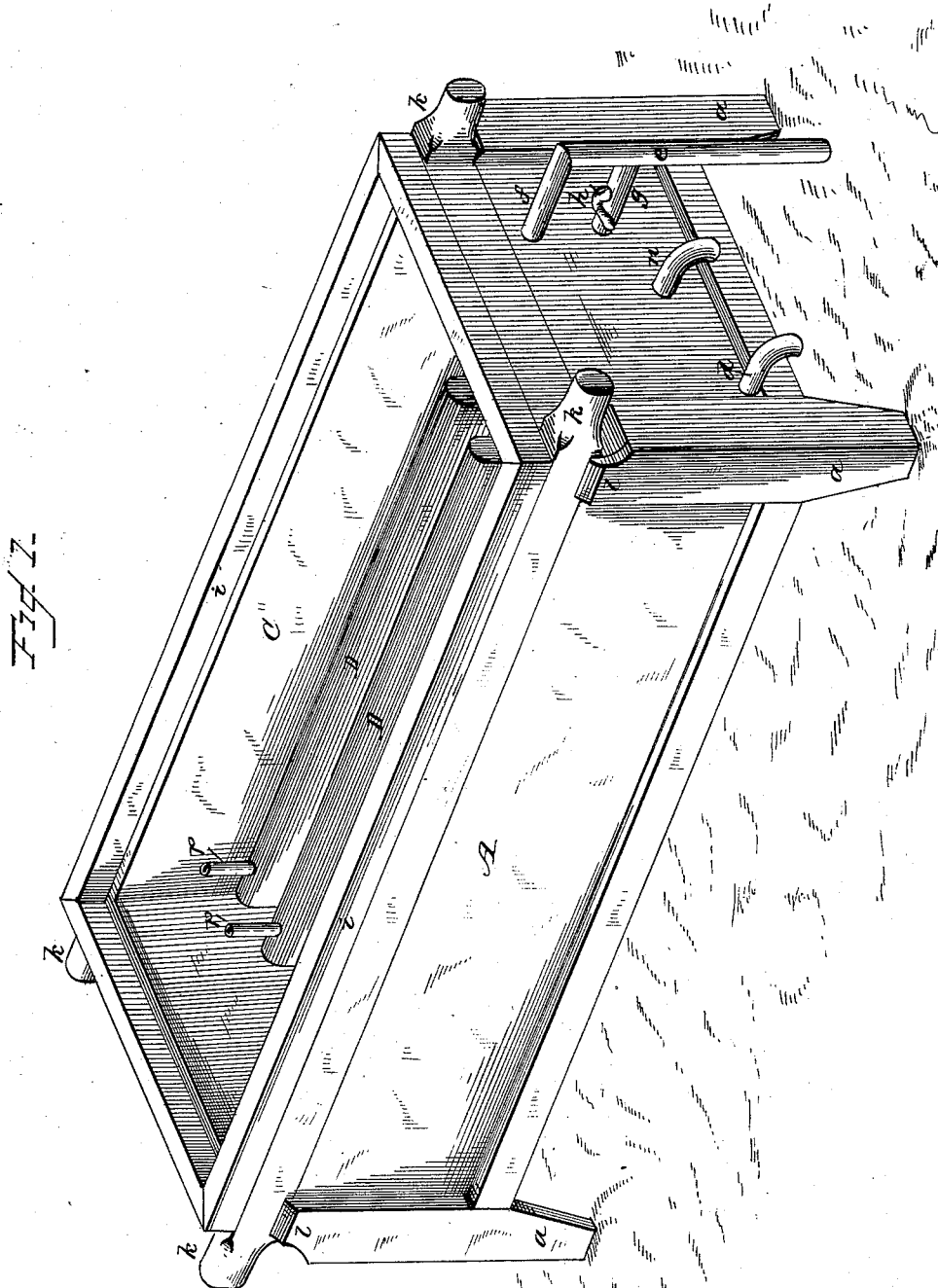
2 Sheets—Sheet 1.

A. R. BROWN.

MILK COOLER.

No. 302,233.

Patented July 22, 1884.



WITNESSES
J. L. Ourand
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INVENTOR
Albert R. Brown.
per Cha. H. Fowler.

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2 Sheets—Sheet 2.

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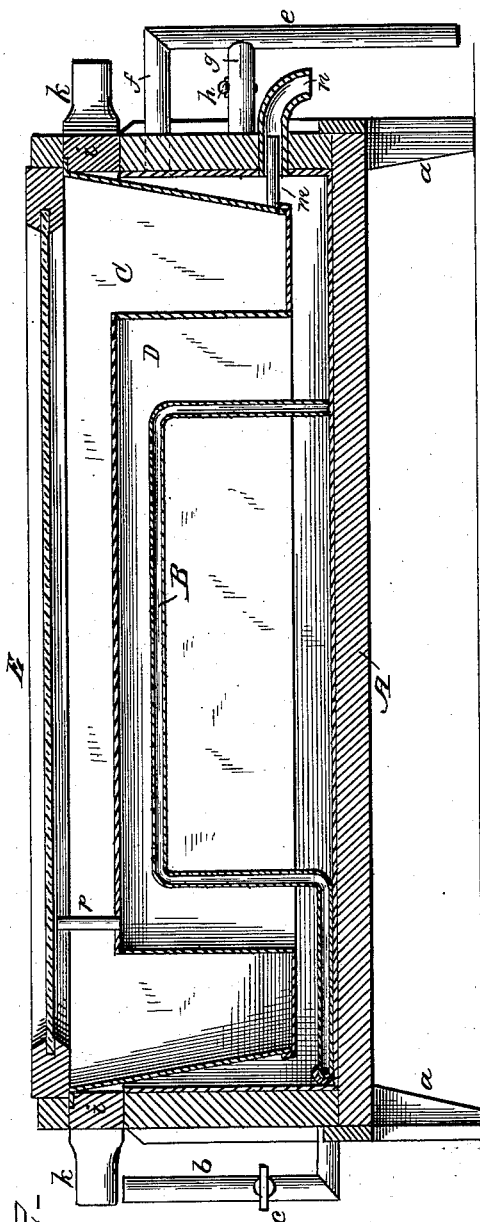


Fig. 2.

WITNESSES

F. L. Ourand.

W. E. Oliphant.

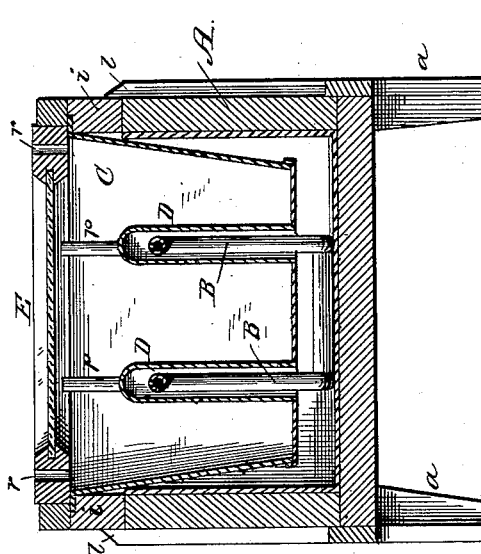


Fig. 3.

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UNITED STATES PATENT OFFICE.

ALBERT R. BROWN, OF GUILFORD, NEW YORK.

MILK-COOLER.

SPECIFICATION forming part of Letters Patent No. 302,233, dated July 22, 1884.

Application filed October 26, 1883. (No model.)

To all whom it may concern:

Be it known that I, ALBERT R. BROWN, a citizen of the United States, residing at Guilford, in the county of Chenango and State of New York, have invented certain new and useful Improvements in Milk-Coolers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of my improved milk-cooler with the cover removed; Fig. 2, a longitudinal section thereof, and Fig. 3 a cross-section.

The present invention has relation to certain new and useful improvements in milk-coolers; and the object thereof is to improve the construction of this class of devices, whereby they will be rendered more effective, simpler in their parts, and capable of being manufactured and placed in the market at a greatly reduced cost, and in every way possessing many advantages not found in the coolers of ordinary use. These several objects I attain by the construction substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents the outer casing or tank, lined with suitable sheet metal and supported by legs *a*, said tank being preferably of rectangular shape and containing water-pipes B. These pipes are preferably perforated for the escape in jets of the cold water; but the perforations may be dispensed with and the pipes so arranged and constructed that a continuous current of water through the pipes will be kept up, the water escaping at the opposite ends from where it is introduced. These pipes B are located in about the center of the tank A, and extend upward to near the top thereof and then horizontally and lengthwise of said tank, the pipes being connected to a supply-pipe, *b*, upon the outside of the tank at its end, which is provided with a faucet, *c*, for turning on or off the supply of water.

At the opposite end of the tank A is a drain-pipe, *d*, which may, if desired, be provided with a suitable faucet; also an overflow-pipe,

e, having two branches, *f g*, the lower one, when not required for use, being turned off or closed by a faucet, *h*. Either branch of the overflow-pipe may be used, as found necessary.

Within the tank A is suspended the sheet-metal vat C for containing the milk, said vat having a rim, *i*, of wood around its four sides, which rests upon the edge of the tank, and being provided with handles *k* for raising the vat out of the tank and replacing it, guide-stops *l* at the corners of the tank keeping the vat in the center thereof and preventing it from lateral displacement. A pipe, *m*, at one end of the vat C registers with and extends into a pipe, *n*, upon the outer end of the tank, through which the milk can be drawn off when desirable. The vat C has centrally and longitudinally arranged cooling-plates D, each pair forming a central hood or space in which the pipes B are located, the water, as it escapes in jets, impinging against the sides of the plates and against the tops thereof, thereby cooling the milk in the vat at the center. The air in the tank A escapes through the tubes *p* and out through perforations or holes *r* in the rim of a glass cover, E, placed over the vat C.

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

In a milk-cooler, a suitable tank containing pipes arranged as shown, one end thereof extending out through the end of the tank and upward and provided with a faucet to form a supply-pipe, and the tank at its opposite end having an overflow-pipe with branches and a drain-pipe, and also having upwardly-extending guide-stops upon the sides, in combination with a vat provided with cooling-plates, and air-tubes connected thereto, said vat having suitable handles and a glass cover formed with a perforated rim, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ALBERT R. BROWN.

Witnesses:

IRVIN I. OGDEN,
W. H. COONS.