

KUSTER & MARZOLF. Improvement in Milk-Coolers.

No. 127,898.

Patented June 11, 1872.

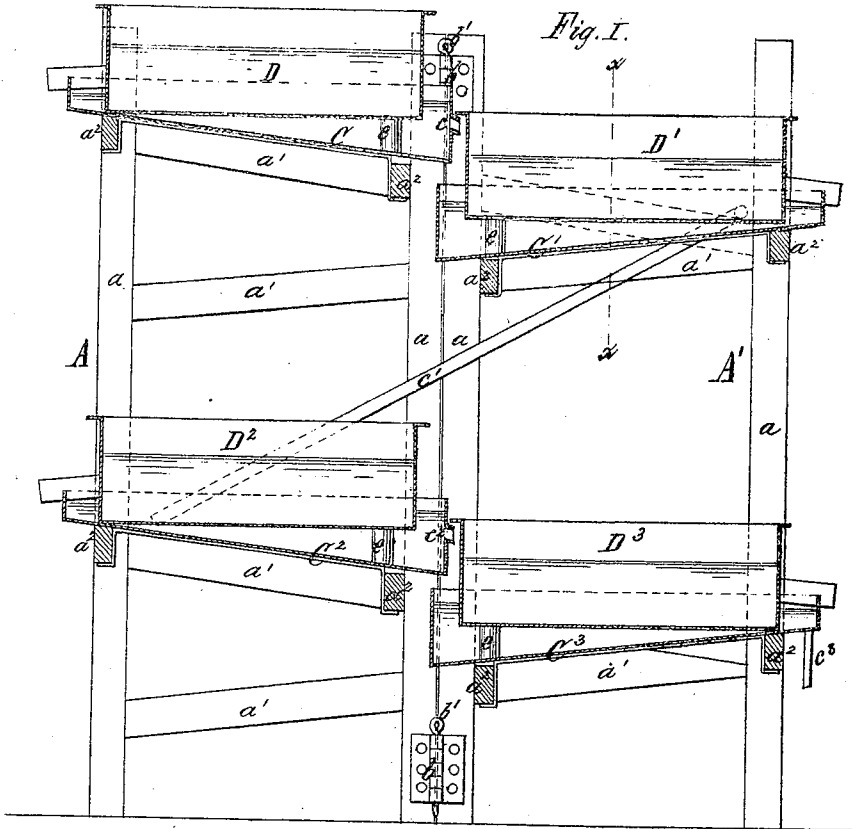
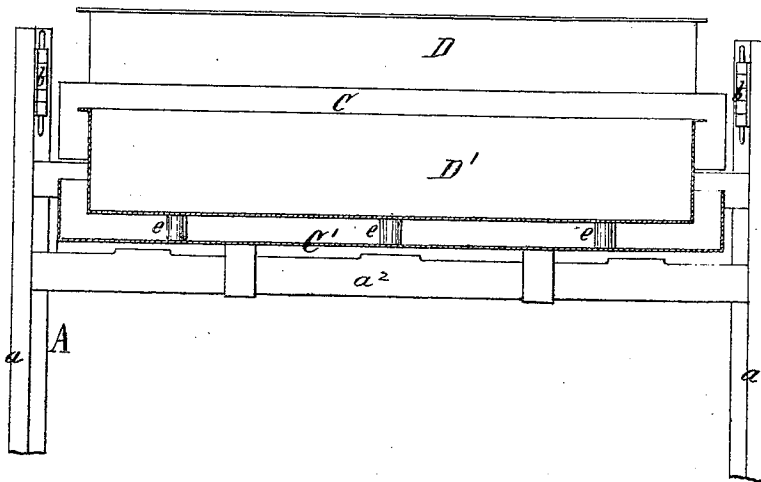


Fig. II.



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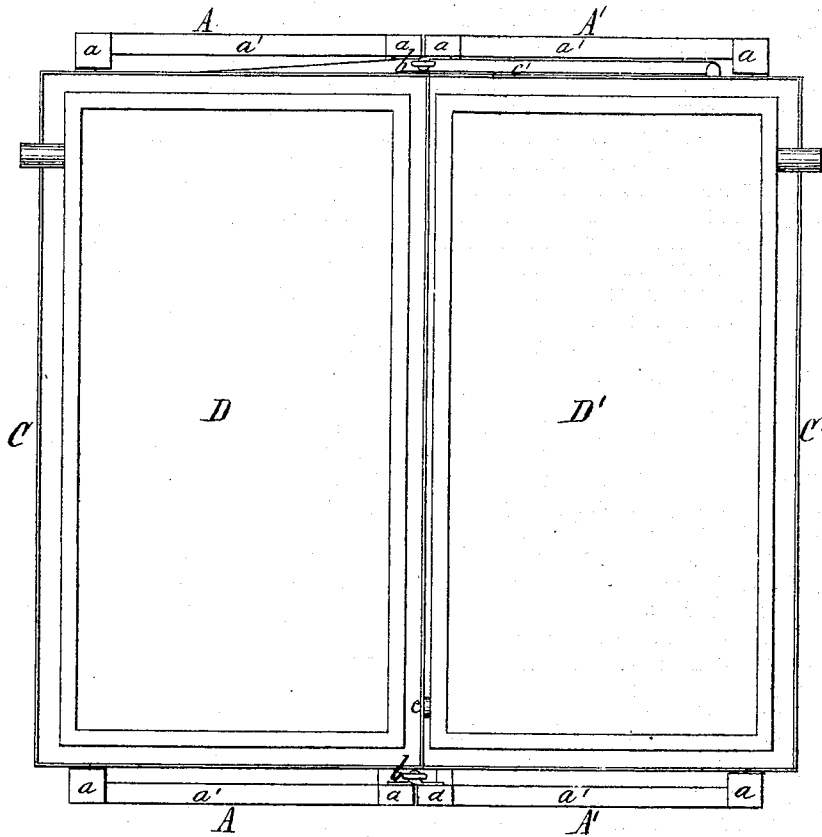
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Fig. III.



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UNITED STATES PATENT OFFICE.

ANDREW J. KUSTER AND XAVIER MARZOLF, OF STRYKERSVILLE, N. Y.

IMPROVEMENT IN MILK-COOLERS.

Specification forming part of Letters Patent No. 127,898, dated June 11, 1872.

SPECIFICATION.

We, ANDREW J. KUSTER and XAVIER MARZOLF, of Strykersville, in the county of Wyoming and State of New York, have invented certain Improvements in Apparatus for Cooling Milk, of which the following is a specification:

Our invention consists in the combination, with a series of milk-pans having their bottoms supported horizontally, and a corresponding number of water-pans having inclined bottoms, and provided with exits for the flow of water, of the detachable supporting-frames, as will be hereinafter more fully set forth.

In the accompanying drawing, consisting of two sheets, Figure I is a sectional elevation of our improved apparatus. Fig. II is a fragmentary section on line *xx*; Fig. I. Fig. III is a plan view of the apparatus.

Like letters designate like parts in each of the figures.

A A' represent two vertical rectangular frames, each consisting of vertical posts *a*, braces *a*¹, and cross-pieces *a*². They are connected together near the top and bottom by a coupling, *b*, through the knuckles of which passes a locking-bolt, *b*¹, which can be readily inserted or withdrawn, or by any other suitable fastening device which allows of the speedy connection and disconnection of the frames. By constructing the frame of the apparatus in this manner each of the portions A A' is enabled to be passed through a door of ordinary size, while they are readily secured together when required to be used. C is the water-pan, arranged in the upper portion of the frame A, and supported on the cross-piece *a*² and C¹, a similar pan arranged in the upper portion of the frame A', but lower than the pan C, which latter is provided with an overflow-pipe, *c*, so that the water which is fed into the pan C will

flow from the same to the pan C¹. C² is a water-pan, arranged in the lower portion of the frame A, and lower than the pan C¹, to which it is connected by a conduit-pipe, *c*¹, through which the water flows from the pan C¹ to the pan C². C³ is a water-pan, arranged in the lower portion of the frame A', and lower than the pan C², which latter is provided with an outlet, *c*², through which the water is discharged into the pan C³, from which it is finally carried off by a waste-pipe, *c*³. D D¹ D² D³ represent the horizontal milk-pans, partially immersed in the water-pans C C¹ C² C³, respectively. We prefer to construct the latter with inclined bottoms, as shown in Fig. I; the milk-pans being retained in a horizontal position, away from the bottoms of the water-pans, by supports *e* secured to the latter, as clearly represented in the same figure.

A constant flow of water through all of the cooling-pans is insured in our improved apparatus, while each of the milk-pans can be filled and emptied separately, without reference to the other pans.

We are aware that milk has been cooled by subjecting the vessel containing it to a current of water, but this we do not broadly claim; but

What we claim as our invention is—

The milk-pans D D¹ D² D³, having their bottoms supported horizontally, and the water-pans C C¹ C² C³, with inclined bottoms, provided with exits *c* *c*¹ *c*² *c*³, in combination with the detachable frames A A', substantially as and for the purpose set forth.

ANDREW J. KUSTER.
XAVIER MARZOLF.

Witnesses:

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