(45.)

2 Sheets--Sheet 1.

C. H. LATHAM.

Improvement in Milk Coolers.

No. 122,616. Patented Jan. 9, 1872.

Fig. 1.

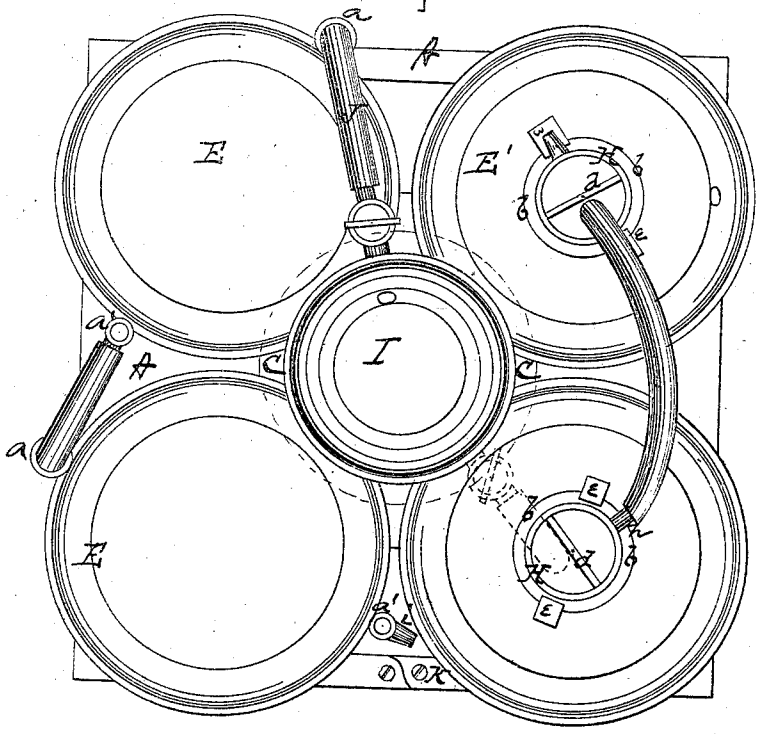


Fig. 4.

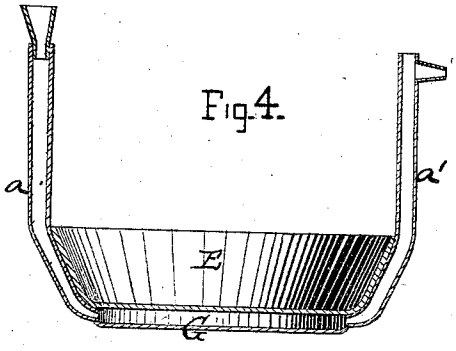
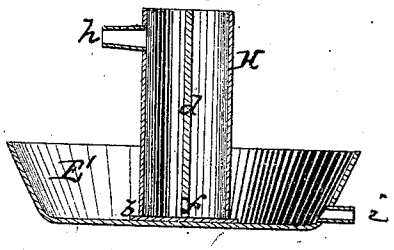


Fig. 3.



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2 Sheets--Sheet 2

C. H. LATHAM.

Improvement in Milk Coolers.

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Fig 2.

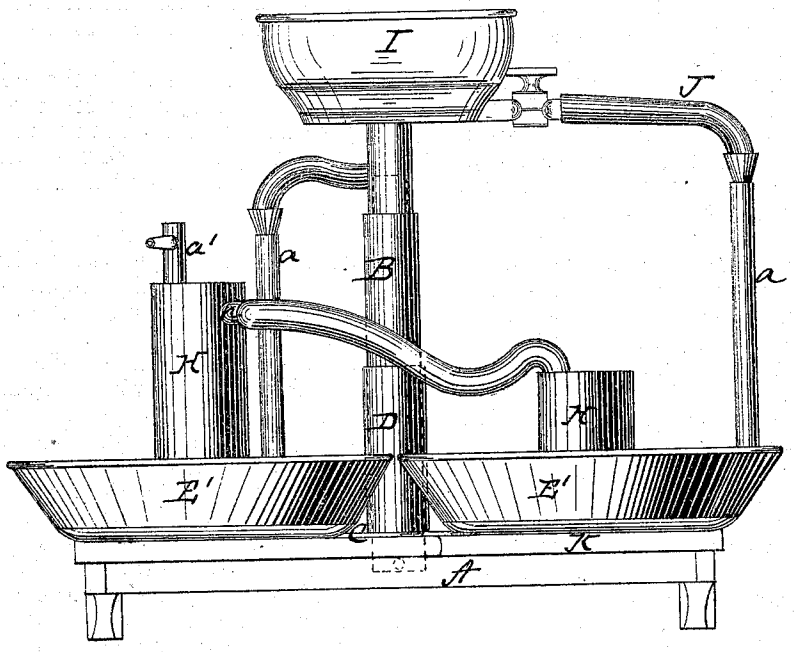
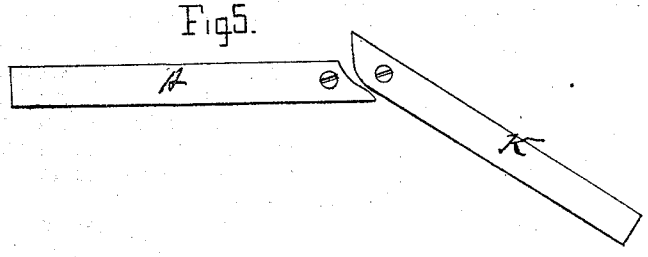


Fig 5.



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UNITED STATES PATENT OFFICE.

CORNELIUS H. LATHAM, OF RANDOLPH, NEW YORK.

IMPROVEMENT IN MILK-COOLERS.

Specification forming part of Letters Patent No. 122,616, dated January 9, 1872.

To all whom it may concern:

Be it known that I, CORNELIUS H. LATHAM, of Randolph, in the county of Cattaraugus and in the State of New York, have invented certain new and useful Improvements in Milk-Cooler; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "milk-cooler," as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, and Fig. 2 a side view of my milk-cooler. Figs. 3 and 4 are sections of the milk-pans and coolers, and Fig. 5 is a view of a device on the bench whereby the milk-pans may be tipped to be emptied.

A represents a bench or stand, of any suitable dimensions, provided in the center with an upright standard, B. On the bench A is laid a circular plate, C, having a central tube, D, which fits over the center standard B. On this plate and bench are placed the milk-pans E E and E′ E′.

I have represented two different kinds of pans, either of which may be used.

The pans E E are each provided with a double bottom, G, from which tubes *a a′* lead vertically upward. The water is admitted through the top of the tube *a*, passes down said tube into the double bottom G, up through the tube *a′*, from the upper end of which it is in the same manner conducted to and through the next pan, and so on through as many pans as may be used. From the last pan the water is allowed to pass off to any desired place. The pans E′ E′, instead of the double bottom and tubes, are each provided with a central cooler, H, said cooler being in the shape of a cylinder, with circular flange *b* at the bottom, which is passed under catches *e e* attached to the bottom of the pan, thus fastening the cooler in its place. In the cooler is a central partition, *d*, dividing it into two compartments, said partition having an opening, *f*, at the lower end.

The water is admitted from the top into one of these compartments, passes through the opening *f* into the other, and at the top hereof is an outlet, *h*, from which the water is conducted into the cooler of the next pan, and so on.

The coolers of the various pans should be of different heights, to allow the water to pass from one to the other. The coolers may readily be removed for the purpose of cleaning them and the pans.

On top of the standard or post B is placed a water-reservoir, I, from which a flexible pipe, J, leads to the pan through which the water is to pass first. This reservoir is so arranged that it can turn around on the post, and thus allow it to be connected with either one of the pans separately. On one side of the frame is a strip, K, pivoted at one end, as shown in Fig. 5, so that it can be turned outward to allow the pan to be tipped and the milk emptied, each pan having for this purpose a spout, *i*. The disk C may be turned around the post, so as to bring either one of the pans to the strip K.

The advantages of thus arranging and constructing the milk-pans all placed on a level are apparent to anybody acquainted with dairies. In some cases, where the central coolers H H are used, these coolers may be of the same height; but then the stand will have to be provided with steps so as to place the pans on different levels.

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

1. The pan E provided with double bottom G and upright tubes *a a′*, substantially as and for the purposes herein set forth.

2. The bench or stand A provided with pivoted strip K, substantially as and for the purposes herein set forth.

3. In a milk-cooler, a revolving water-tank or reservoir, I, arranged above the milk-pans, and arranged so as to pass the water into

either or all the pans, substantially as herein set forth.

4. The combination of the stand A, post B, plate C with tube D, pans E provided with apparatus for cooling and conducting the water from one to the other, as described, and the reservoir I, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 23d day of October, 1871.

CORNELIUS H. LATHAM.

Witnesses:
D. DE WITT LOCKWOOD,
W. DUANE PIERCE. (45)