

*J. M. Hill,*

*Churn Taster.*

*No. 105,332.*

*Patented July 12, 1870.*

Fig. 1

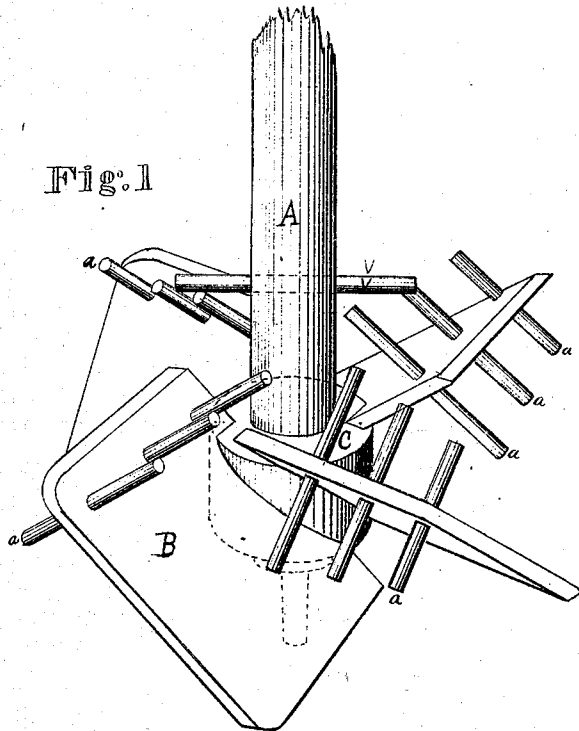
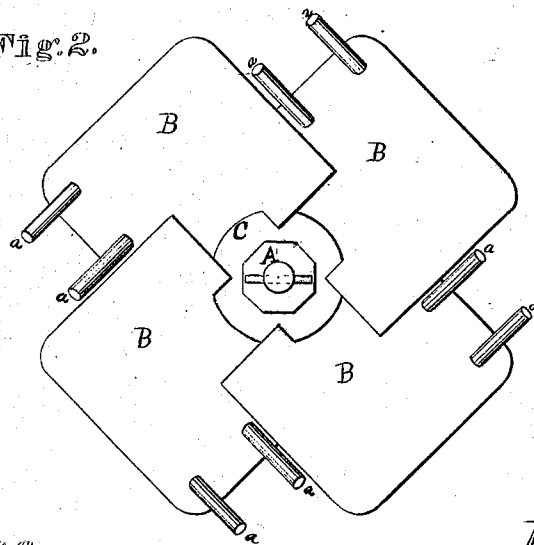


Fig. 2.



*Witnesses:*  
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# United States Patent Office.

JAMES M. HILL, OF FAIRFIELD, ILLINOIS.

Letters Patent No. 105,332, dated July 12, 1870.

## IMPROVED CHURN-DASHER.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, JAMES M. HILL, of Fairfield, in the county of Wayne and State of Illinois, have invented a new and valuable Improvement in Churn-Dasher; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of my invention in perspective.

Figure 2 is a bottom view of the same.

My invention relates to churns, and consists in the construction of a dasher of a novel form, intended to serve efficiently in the process of producing butter from cream or milk.

A of the drawing represents the standard or shaft of my dasher, and

B the buckets thereof.

These buckets or paddles are respectively attached to the shaft in a diagonal position, as shown on fig. 1, thereby forming an implement analogous in shape to a propeller-wheel of a steamboat.

The letter C represents a cylinder through which the shaft passes, and in which the paddles or buckets are secured in grooves, as shown on the drawing. This cylinder is arranged to rotate around the shaft,

and, as the paddles are not connected with the cylinder except by the grooves above mentioned, they are removable at will. The mode of attaching the cylinder to the shaft is shown on fig. 2, and it will readily be perceived that said cylinder is also removable.

The letters *a* are pins passing through the respective paddles in the manner represented, and

*v* is a pin passing through the shaft.

The dasher above described is intended for use in a common tub-churn by vertical movements. As the dasher is forced downward into the fluid, a rotary movement is secured for the paddles and cylinder to the right, and, as the shaft is raised, the movement is reversed to the left, thereby creating a novel and violent agitation of the fluid.

What I claim as my invention, and desire to secure by Letters Patent, is—

The churn-dasher herein described, constructed with shaft A, paddles B, rotating cylinder C, and pins *a* and *v*, when arranged substantially as specified.

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

JAMES M. HILL.

Witnesses:

G. J. GEORGE,  
P. L. FUNKHORN.