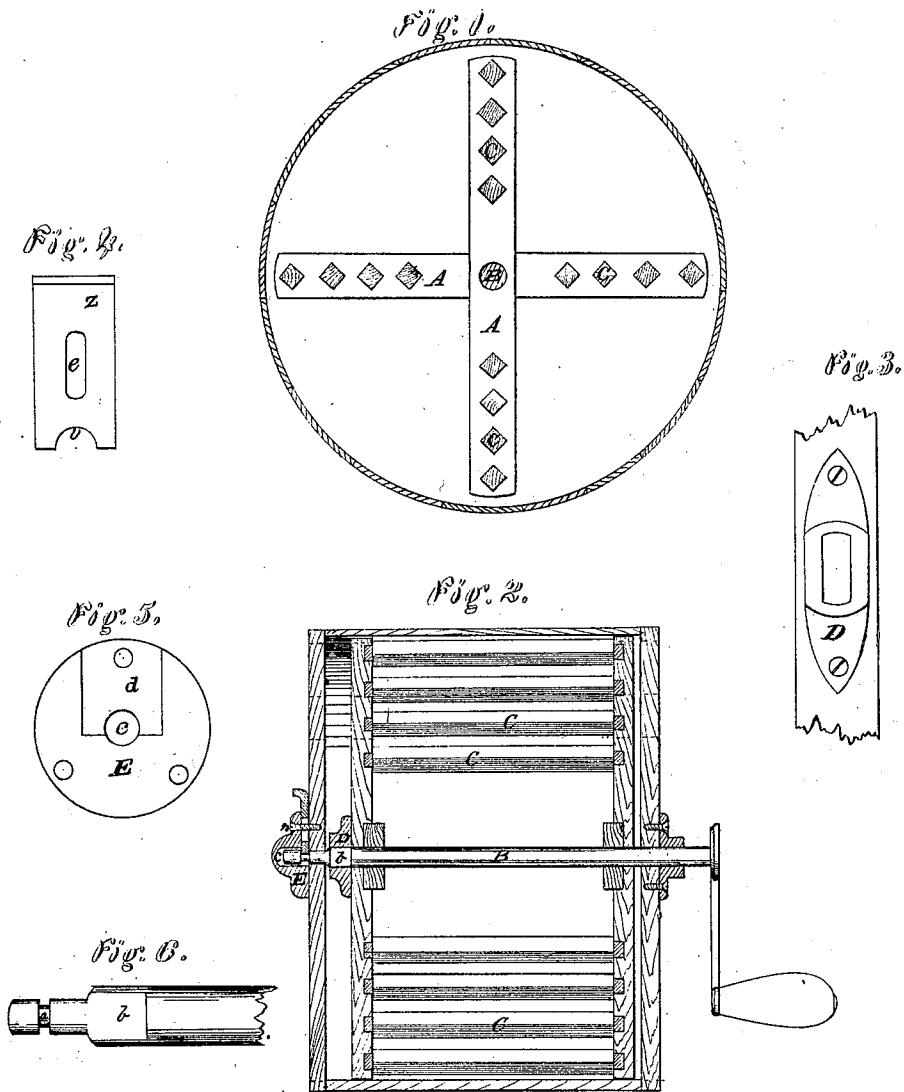


Weston & Streeter,

Churn.

No. 103,803.

Patented May 31, 1870.



Witnesses:
Villette Anderson,
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IRVING E. WESTON AND ALVIN STREETER, OF WINCHENDON, MASSACHUSETTS.

Letters Patent No. 103,803, dated May 31, 1870.

IMPROVEMENT IN CHURNS.

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

To all whom it may concern:

Be it known that we, IRVING E. WESTON and ALVIN STREETER, of Winchendon, in the county of Worcester and State of Massachusetts, have invented a new and valuable Improvement in Churns; and we 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 central vertical section of our invention.

Figure 2 is a horizontal section of the same.

Figures 3, 4, 5, and 6 are details.

Our invention relates to churns, and consists in the novel construction and arrangement of the dasher, and of the journal-box, by which the shaft thereof is fastened to the case of the churn, whereby it is designed to lessen the time required for making butter, and to facilitate the removal of the dasher from the churn-case, when necessary for cleaning or other purposes.

The letter A of the drawing designates the arms of the dasher, arranged to cross each other at right angles,

B is the shaft, flattened at *b* to keep it steady in the dasher, and provided with a groove or neck, *a*, near the end.

C C represent the beaters, which are rectangular bars, attached at each end to the arms A, and arranged in such a manner that each bar will move edgewise through the cream, dividing the same, and causing, by its slanting faces, two swiftly diverging currents of cream, which will engage with divergent currents from the adjacent bars, thus accelerating the

rupture of the butter capsules, and the agglomeration of the contents thereof.

The plate D, provided with a rectangular slot, is secured to the exterior arm of the dasher, and serves to receive the flattened portion *b* of the shaft, which is thus prevented from turning in the dasher.

E represents the retaining, fluid-tight journal-box, provided with a cavity, *c*, to receive the end of the shaft, and slotted at *d*, to receive the slide *z*.

The slide *z* is slotted at *e* to receive the screw *n*, and is thereby prevented from being drawn from its place and lost.

It is also provided with a semicircular notch, *r*, in its lower end, so arranged that, when the slide is dropped, it will engage with the groove at the end of the shaft, and secure it in place, without impeding its motion of revolution.

What we claim as our invention, and desire to secure by Letters Patent, is—

In combination with a barrel-churn, provided with the dasher A, having rectangular beaters C, the shaft B, provided with flat places *b*, and neck *a*, the slotted plate D, and the bearing-plate E, provided with slotted slide *z*, and closed recess *c*, when constructed and arranged to operate substantially as shown and described.

In testimony that we claim the above, we have hereto subscribed our names in the presence of two witnesses.

IRVING E. WESTON.
ALVIN STREETER.

Witnesses:

H. M. WESTON,
E. S. MERRILL.