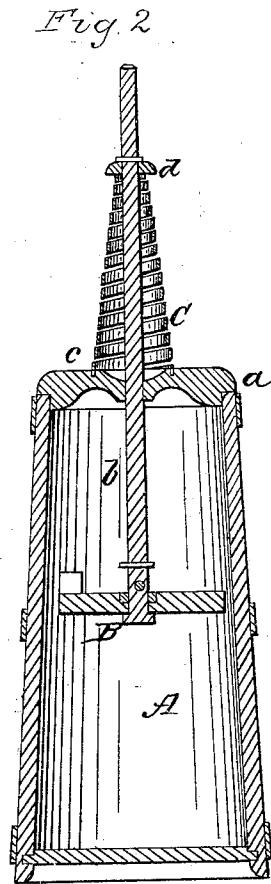
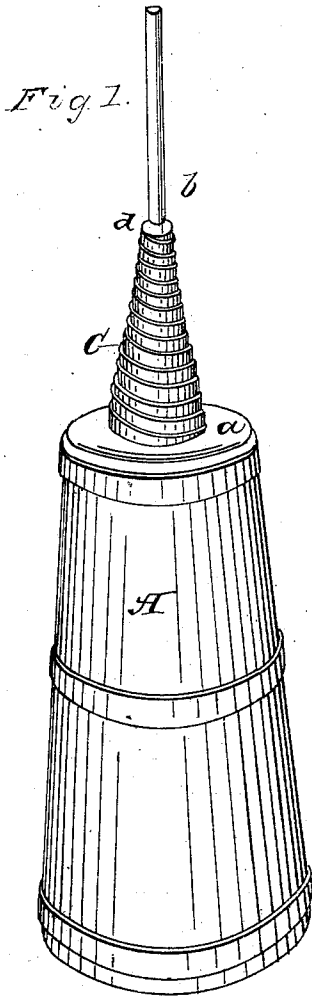


WEAVER & MEFFORD.

Churn.

No. 38,635.

Patented May 19, 1863.



Witnesses
J. B. Elliott
F. A. McDowell

Inventors
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UNITED STATES PATENT OFFICE.

J. H. WEAVER, OF CHILLICOTHE, OHIO, AND D. M. MEFFORD, OF JEFFERSONVILLE, INDIANA.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. **38,635**, dated May 19, 1863; antedated January 31, 1862.

To all whom it may concern:

Be it known that we, J. H. WEAVER, of Chillicothe, in the county of Ross and State of Ohio, and D. M. MEFFORD, of Jeffersonville, in the county of Clark and State of Indiana, have invented a new and useful Improvement in Churns; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and letters of reference marked thereon, which form part of this specification.

Our invention consists in the employment of a volute spring around the dasher-handle in upright churns, which, while it assists the operator in raising the dasher, forms likewise a cup on the lid to prevent the cream from escaping during the churning.

In the accompanying drawings, Figure 1 is a perspective view of our invention. Fig. 2 is a vertical axial section of the same.

Like letters of reference designate like parts in all the drawings.

A is the barrel churn; *a*, the lid or cover; B, the dasher, and *b* the dasher-rod—in all respects as in ordinary churns.

In the cover *a* is a cup-shaped excavation, *c*, around the aperture in which the dash-rod works. Around the edge of this excavation the lower end or base of the volute spring C is inserted, and from thence the spring rises. The spring is constructed of flat metal—either steel, iron, brass, or of other material—and is so

constructed that when compressed downward each fold fits within the one below, in the manner of the mainspring of a watch. Upon the dash-rod is a washer or stop, *d*, which rests against the extremity of spring as it rises around the pole.

It will be evident, on inspection, that as the dasher is pushed down into the churn, the spring, being constructed as described, will form, with the stop *d*, a close cup or cover, which will prevent the escape of any cream which might be forced through the aperture in lid. The recoil of spring will assist in raising the dasher, which, as every one knows, is the most laborious part of the operation. The spring C is so arranged as to be easily removed for the purpose of washing, &c.

We do not claim, broadly, the use of the spring in assisting to elevate the dasher, as that we believe has been used before; but

We claim—

The volute-spring C, when constructed of flat metal of suitable kind, and when arranged around the dash-rod so as to form, with the stop *d*, a cup to prevent the escape of cream, as well as to assist in raising the dasher, substantially as set forth.

J. H. WEAVER.
D. M. MEFFORD.

Witnesses:

J. B. ELLIOTT,
F. A. McDOWELL.