

W. S. McMANUS & R. S. MERRYMAN.

CHURN.

No. 176,801.

Patented May 2, 1876.

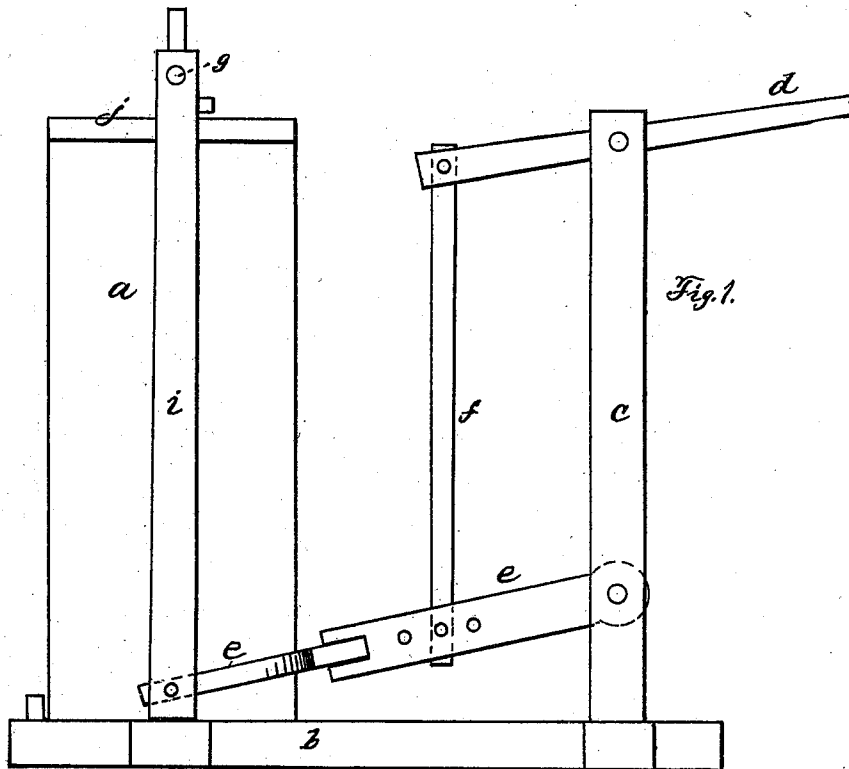


Fig. 1.

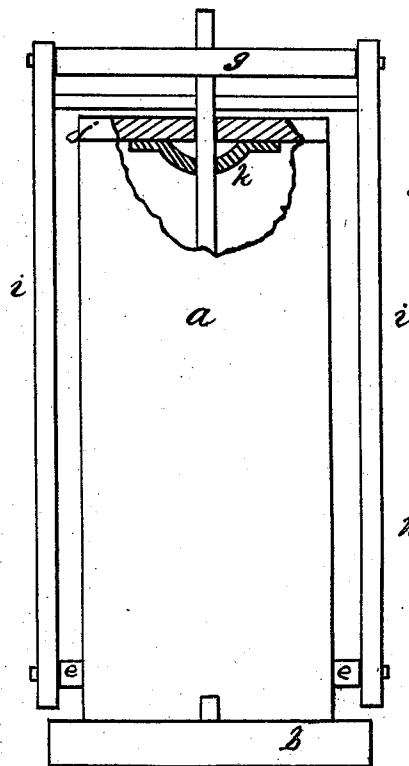


Fig. 2.

Witnesses:

Frank H. Jordan,
Charles E. Clifford

Inventors:

Walter S. Manus
Robert S. Merryman
Per Wm. Henry Clifford
Atty.

UNITED STATES PATENT OFFICE.

WALTER S. McMANUS AND ROBERT S. MERRYMAN, OF BRUNSWICK, MAINE,
ASSIGNORS TO THEMSELVES AND EDWARD H. WOODSIDE, OF SAME
PLACE.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. **176,801**, dated May 2, 1876; application filed
December 13, 1875.

To all whom it may concern:

Be it known that we, WALTER S. McMANUS and ROBERT S. MERRYMAN, both of Brunswick, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Churns; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Fig. 1 is a side view. Fig. 2 is an end view in part section.

Same letters show like parts.

Our invention consists in the arrangement of certain mechanism for imparting the requisite upward and downward movements to the dasher of an ordinary churn.

In the accompanying drawings, *a* shows the churn set upon the base *b*. *c* is a standard, erected at the opposite end of the base *b* from that upon which *a* rests. Pivoted at the upper end of this standard is the hand-lever *d*, and pivoted near the bottom of this standard, as illustrated, is the bifurcated lever *e*, said bifurcations conforming to the shape of the churn *a*, and extending about one-half way round the same, as illustrated in the drawing. *f* is a rod connecting the inner end of the hand-lever *d* with the bifurcated lever *e*, as shown. *g* is a cross-head, attached to the dasher-rod *h*. This cross-head is somewhat longer than the diameter of the churn, and is connected at each end with the ends of the bifurcated lever by the links or rods *i*.

The several parts being thus arranged, it is evident that as the hand-lever is moved upward and downward the requisite upward and downward movement of the churn-dasher will be imparted through the medium of the rod *f*, forked lever *e*, cross-head *g*, and links *i*, hereinbefore described.

The rod *f* is made adjustable upon the forked lever *e* by means of holes and bolts, or other equivalent contrivance, so that a longer or shorter stroke may be imparted to the dasher-rod *h*, as desired. *j* shows the cover of the churn, and has attached upon its under side the guide *k*, through which the dasher-rod passes. This, being made to closely fit the dasher-rod, serves also to prevent the out-flow, through the aperture in the cover, of any of the cream that might otherwise adhere to the dasher-rod.

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

The combination, in a device for churning, of standard *c*, hand-lever *d*, connecting-rod *f*, bifurcated lever *e*, constructed as shown, link *i*, cross-head *g*, dash-rod *h*, and cover *j*, having a suitable guide on its under side, substantially as and for the purposes set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

WALTER S. McMANUS.
ROBERT S. MERRYMAN.

Witnesses:

AMHERST WHITMORE,
JOSEPH S. REED.