

(No Model.)

J. A. McRAE.

CHURN.

No. 317,559.

Patented May 12, 1885.

*Fig. 1.*

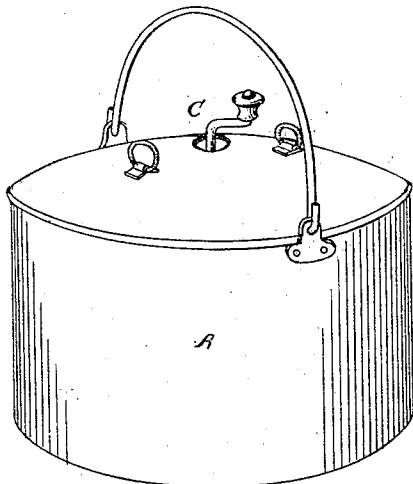


*Fig. 2.*

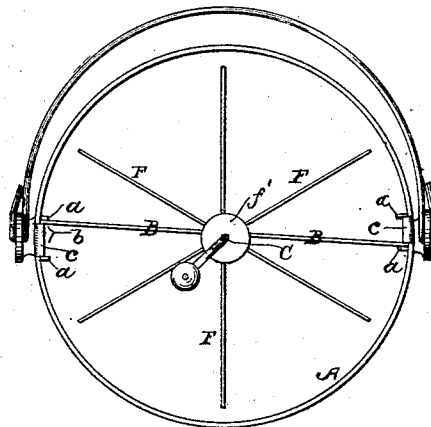


*Fig. 3.*

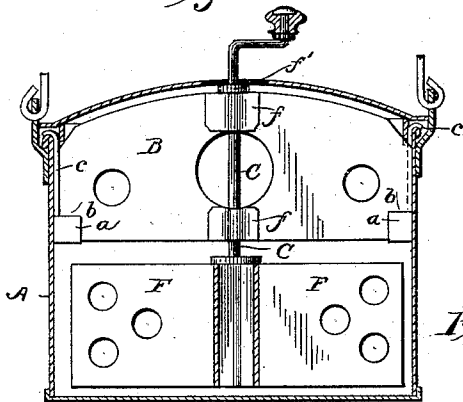


*Fig. 4.*

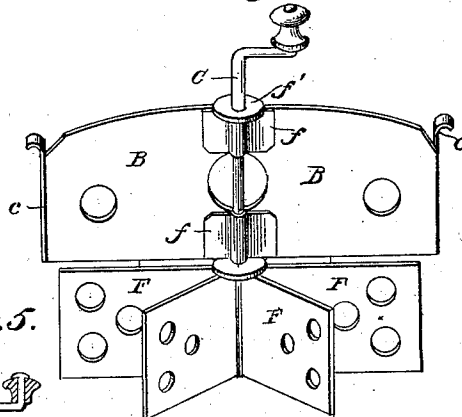
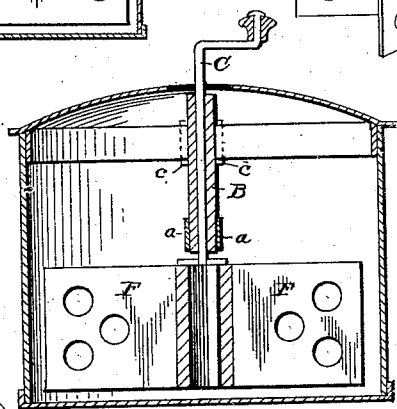


*Fig. 5.*



WITNESSES

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# UNITED STATES PATENT OFFICE.

JAMES ARMSTRONG McRAE, OF AUSTIN, TEXAS.

## CHURN.

SPECIFICATION forming part of Letters Patent No. 317,559, dated May 12, 1885.

Application filed July 12, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES A. McRAE, a citizen of the United States, residing at Austin, in the county of Travis and State of Texas, have invented a new and useful Churn, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to churns; and it has for its object to provide a device of this character which may be manufactured and supplied at a slight cost, and which shall be simple and effective in its operation and durable in its use.

With these ends in view my invention consists, primarily, in the combination, with a suitable bucket, of a removable stationary dasher and a shaft loosely mounted to turn on said stationary dasher, said shaft having a series of radial wings or dashers at its lower end.

My invention further consists in the improved construction and combination of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a churn constructed in accordance with my invention. Fig. 2 is a plan view with the cover removed. Fig. 3 is a cross-section showing the means for supporting the stationary dasher. Fig. 4 is a detail view of the dasher, and Fig. 5 is a vertical section of a modification.

In the accompanying drawings, in which like letters of reference indicate corresponding parts in all the figures, A represents a bucket or other suitable vessel, which is provided with inwardly-extending ears *a*, forming guides *b*, as shown.

B represents what I term the "stationary dasher," the same having its ends bent at right angles to the body portion, thus forming flanges *c*, which fit within the guides *b*. The upper ends of the flanges *c* are turned outwardly to form hooks, which engage the upper edge of the bucket or vessel, and thus support the stationary dasher. This dasher is provided with any desired number of openings, and on one of its sides, at about the cen-

ter of the same, are provided brackets *f*, in which is adapted to turn a vertical shaft, C, which has at its lower end a series of radial dash-blades, F, having any desired or suitable number of openings. Upon the upper end of the shaft C is provided a disk, *f'*, which limits the movement of the said shaft in the brackets *f* by bearing against the stationary dasher. The end of this vertical shaft is bent to form a crank, and the cover or lid is provided with an opening, so that it may be passed over said shaft.

The dasher proper and the stationary dasher may, when desired, be removed for cleaning or other purposes by simply removing the latter-mentioned dasher from the guides *b*. Thus it will be seen that when the bucket is not in use for churning it may be employed for other purposes. In the modification shown in Fig. 5 the stationary dasher is constructed of wood, and is secured to the bucket or casing in any suitable manner. In this case a vertical passage is formed in said dasher midway between its ends, in which passage the shaft is located and adapted to turn.

It will also be seen that by the use of a dasher constructed as above described the churning process may be readily and quickly effected.

A churn constructed in accordance with my invention is of simple construction, may be manufactured and supplied at a slight cost, may be easily cleaned, and is not liable to get out of order.

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

1. The combination, with the body portion, of a stationary dasher, a shaft mounted in brackets of said dasher, and a series of radial wings secured to the lower end of said shaft, substantially as set forth.

2. The combination, with the body portion having diametrically-opposite lugs, forming guides *b*, of a stationary dasher having outwardly-turned flanges to engage the same, said flanges being bent at their upper ends to engage the edges of the churn, and a revolving dasher, the stem of which is loosely jour-

naled on said stationary dasher, substantially as set forth.

3. The combination, with the churn-body, of a stationary dasher secured therein, and a  
5 revolving dasher, the stem of which is mounted in brackets of said stationary dasher, and provided with a cranked handle, said revolving dasher having a series of radially-extending blades or wings, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JAMES ARMSTRONG McRAE.

Witnesses:

RICHARD GILDART,  
JAMES J. COLLINS.