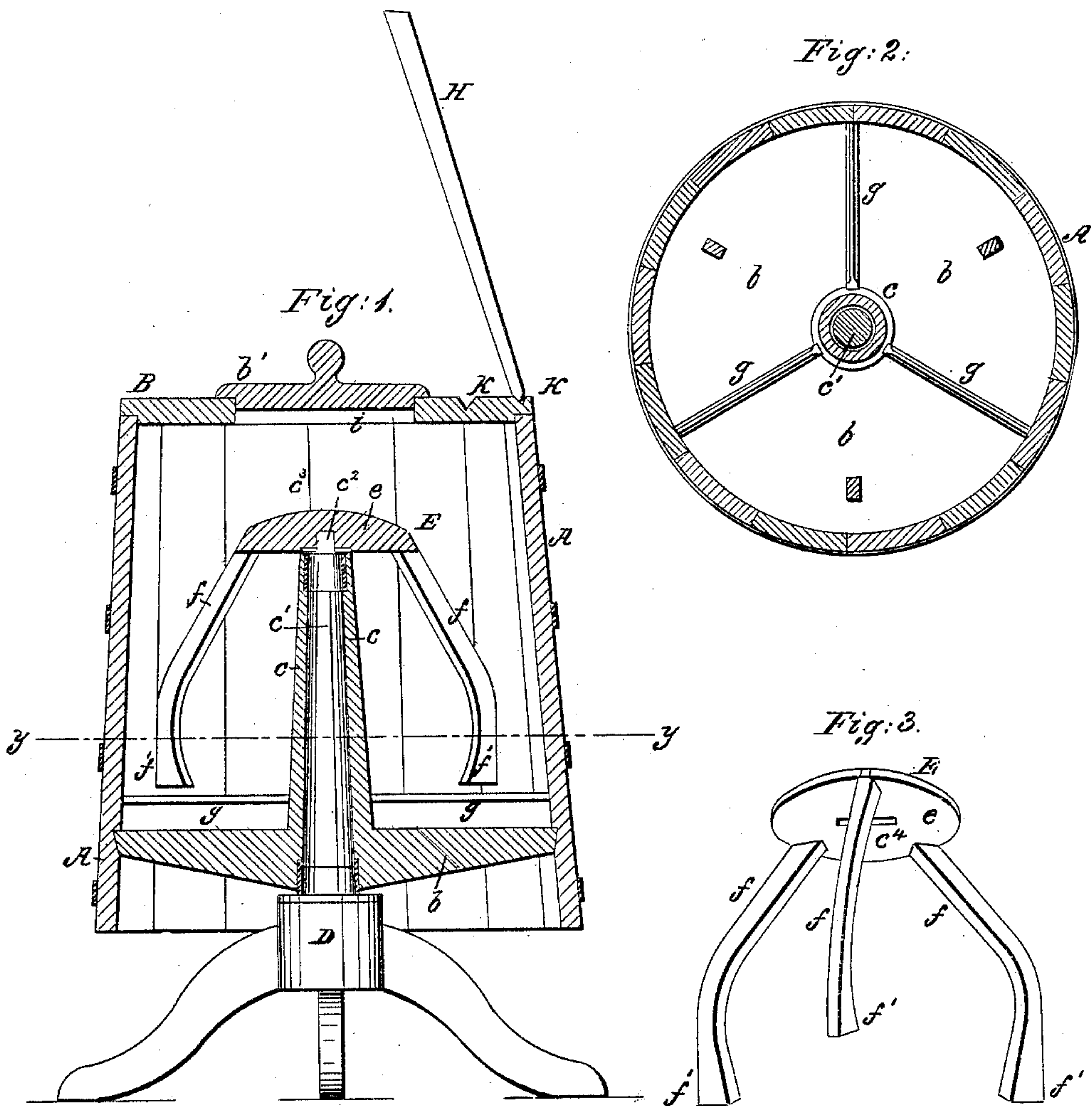


W. ROBINSON.
Churn.

No. 37,244.

Patented Dec. 23, 1862.



Witnesses:
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UNITED STATES PATENT OFFICE.

WILLIAM ROBINSON, OF BELLEFONTAINE, OHIO.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 37,244, dated December 23, 1862.

To all whom it may concern:

Be it known that I, WILLIAM ROBINSON, of Bellefontaine, in the county of Logan and State of Ohio, have invented a new and useful Improvement in Churns; and I do hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, like letters in the several figures indicating the same parts, and in which drawings—

Figure 1 is a longitudinal vertical section of my improved churn; Fig. 2, a transverse section in line *y y* of Fig. 1, and Fig. 3 a detached view of the dasher.

My invention has for its object the relieving of the operator from the necessity of lifting the body of the cream in the act of churning, and the dispensing with gearing ordinarily used to ease the operator in the act of churning where the operation of the churn is such as to cause a raising or lifting of the cream in the churn from a given horizontal plane at its bottom. It also has in view the so constructing of a churn that the operator will not be liable to be "spattered" with the cream flying out from beneath the "cover" while in the act of churning.

In the drawings, A indicates the body of the churn, of cylindrical form, with a tight bottom, *b*, from the center of which a spindle-case, *c*, rises, as shown, fitted to receive a spindle, *c'*, projecting from a stand, D, and around which spindle *c'* the body A of the churn revolves when in the act of "churning," said parts being in position for such purpose, as represented in the figure. The top of the spindle *c'* is made square, as at *c²*, and has a perforation through it to receive a wedge or pin, *c³*, which, when in place, as shown in Fig. 1, prevents the body of the churn from being lifted off the spindle. On the under side of the "dasher" E, a recess, as at *c⁴*, is cut therein, and of a form and depth sufficient to allow the dasher to be placed and held upon the spindle, and in which position it is stationary while in the act of churning. The under side of the dasher is provided with agitators *f*, curved outwardly, as shown, and with their lower extremities enlarged, as at *f'*. The upper ends of these agitators are properly secured to the cap *e*, which latter part at its top is made in oval form, as shown in Fig. 1, to allow the cream to fall back into the body of the churn, if thrown thereupon in the act of churning, and also to give direction to the

flow of water down the agitators *f*, when thrown thereon for the purpose of washing off the dasher after a churning. The bottom *b* of the churn is equally spaced off with blades *g' g' g'*—say, in practice, one inch in width, and extending from the spindle-shell *c* to the interior perimter of the churn-body. The top of the churn is fitted with a main cover, B, made to set snugly in the body A, and directly over the cap *e* of the dasher an opening is made in the main cover, as at *i*, of somewhat less diameter than the cap *e*, which opening is closed, as occasion may require, with a loose-fitting cover, *b'*. It will thus be seen that the cap *e* acts as a shield or guard to prevent the cream from being thrown up through the opening *i* during its agitation. Cream being poured into the cylinder A, sufficient to fill the same up to a point midway of the height of the spindle-case *c*, the operator will then insert the tapering pin H in one of the tapering holes *k* of the main cover B, as shown, whereupon, with a slight effort or pressure in the proper direction, the cylinder A may be made to rotate either to the right or left hand, as may be desired, the spindle *c'* acting during such movement as the axis of rotation. As before stated, the dasher E during such movement will remain stationary upon the spindle *c'*, while the cream, being carried around by its impingement upon the sides of the churn-body A and the slats or blades *g' g' g'*, will be forcibly parted and agitated by the arms or agitators *f*, and this without causing the lowest plane of the body of the cream to rise above the bottom of the churn. It will thus be seen that a churning may be effected with great ease to the operator, and free from the annoyance of having himself spattered with the contents of the churn.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. Suspending the body A of a churn upon a central spindle, *c'*, in the manner and for the purpose set forth.

2. In combination with the cylinder A and spindle *c'*, the stationary dasher E, constructed substantially as and for the purpose set forth.

2. The cap *e*, in combination with the spindle *c'* and opening *i*, substantially as and for the purpose set forth.

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