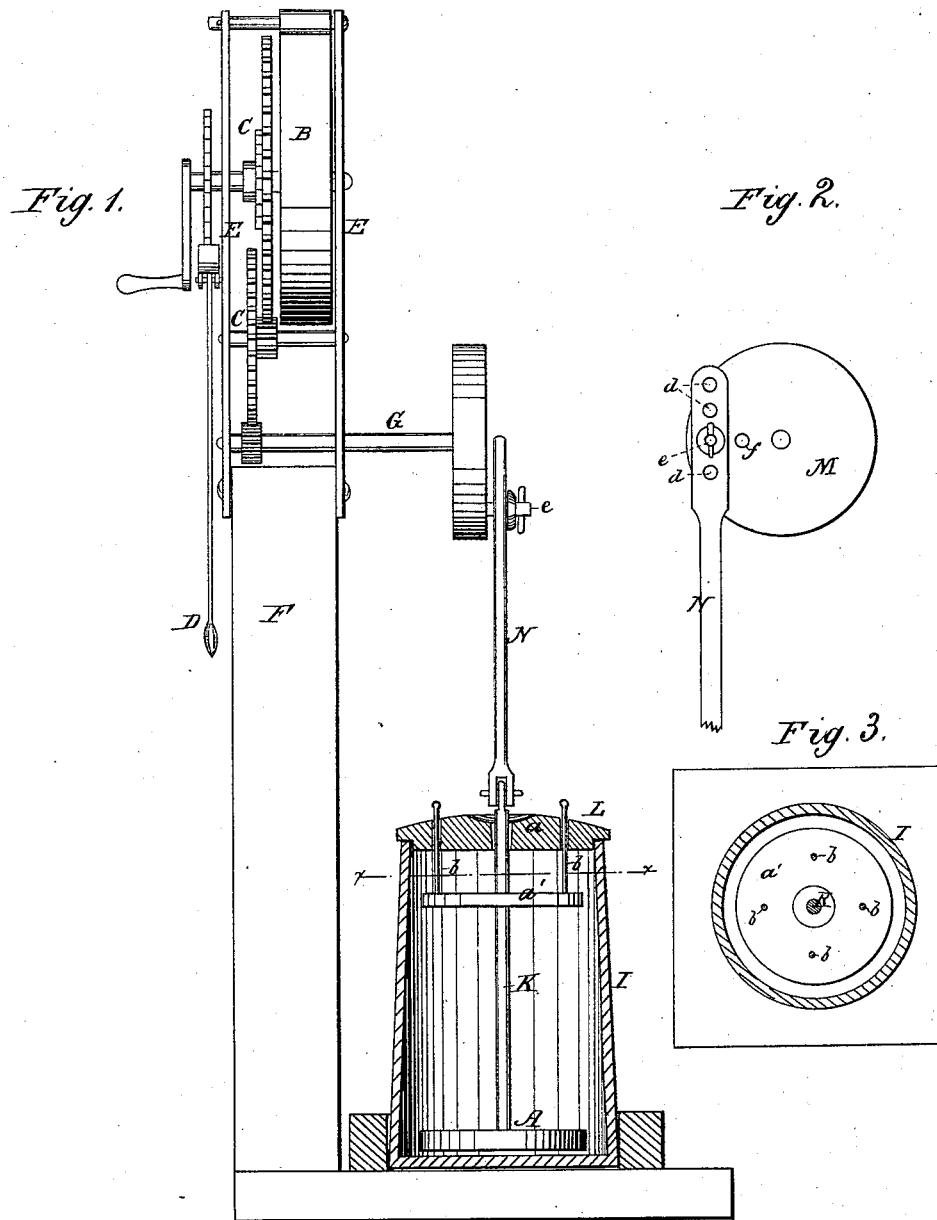


W. L. ALLEGREE.  
Churn.

No. 215,857.

Patented May 27, 1879.



WITNESSES:  
*W. W. Hollingworth*  
*Amos W. Hart*

INVENTOR:  
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BY *[Signature]*  
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# UNITED STATES PATENT OFFICE.

WILLIAM L. ALLEGREE, OF HEBBARDSVILLE, KENTUCKY.

## IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. **215,857**, dated May 27, 1879; application filed March 7, 1879.

*To all whom it may concern:*

Be it known that I, WILLIAM LIGHTFOOT ALLEGREE, of Hebbardsville, in the county of Henderson and State of Kentucky, have invented a new and Improved Churn; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention is an improvement in the class of churns having a reciprocating dasher, which is operated by spring-power.

The improvement relates to the construction of the churn-cover, as hereinafter described, and as illustrated in accompanying drawings, in which—

Figure 1 is partly a side view of my improved apparatus, the churn-body being in section. Fig. 2 is a detail. Fig. 3 is a cross-section on line *x x*, Fig. 1.

The motor which operates the dasher A is composed of a spring, B, (a weight may be substituted,) and a gearing, C, having a pendulum attachment, D, similar to an ordinary clock-movement. All the parts of the motor are attached to the two parallel bars or plates, E E, which are set vertical and bolted to the top of a standard, F. The driving-shaft G is at the bottom of the train of gearing, in suitable contiguity to the churn; but the whole apparatus is so located that the space around the churn and standard is left free or unoccupied.

The dasher A is of considerably less diameter than the interior of the body I of the churn. The dasher is guided vertically by its rod K, which works in the two-part lid or cover L.

Said cover is composed of two disks, *a a'*, the lower one, *a'*, being suspended from the other by rods *b*. The upper one, *a*, has a rabbeted edge, which rests on the rim of the tub I. The pins *b* project up through the disk *a*, so that the lower disk, *a'*, can be raised or lowered by adjusting the pins. The continual passage of the cream between the disks *a a'* causes the butter to gather on the lower disk, *a'*. On detaching the cover L, the butter thus deposited may be readily removed.

The amount of friction between the dash-rod K and disks *a a'* is less than arises from the ordinary arrangement, in which the dasher is made to work in contact with the sides of the tub I, and the cover is composed of a single disk.

The dash-rod K is connected to the disk M on the driving-shaft G by means of a bar, N, whose upper end has a row of holes, *d*, to allow adjustment of the same on the wrist-pin *e*. The latter may also be adjusted in a radial direction on the disk M by the provision of holes *f* in the disk.

What I claim is—

The combination of the churn-cover, composed of the two separated disks *a a'* and connecting-rods *b*, with the dash-rod, dasher, and body of the churn, as shown and described, for the purpose specified.

WILLIAM LIGHTFOOT ALLEGREE.

Witnesses:

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