

S. K. FERGUSON.
Churn.

No. 218,669.

Patented Aug. 19, 1879.

Fig. 1.

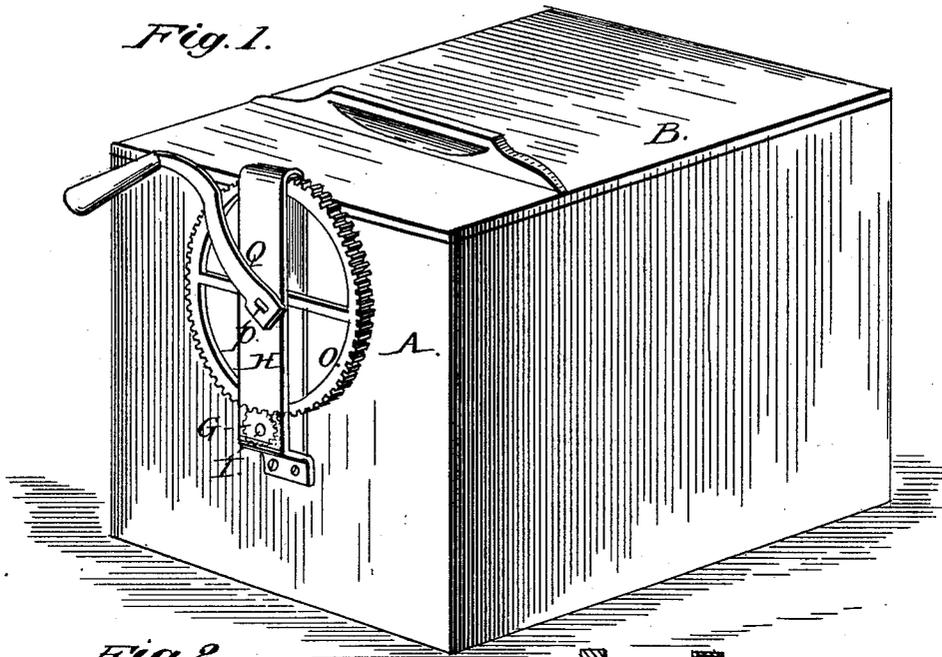


Fig. 2.

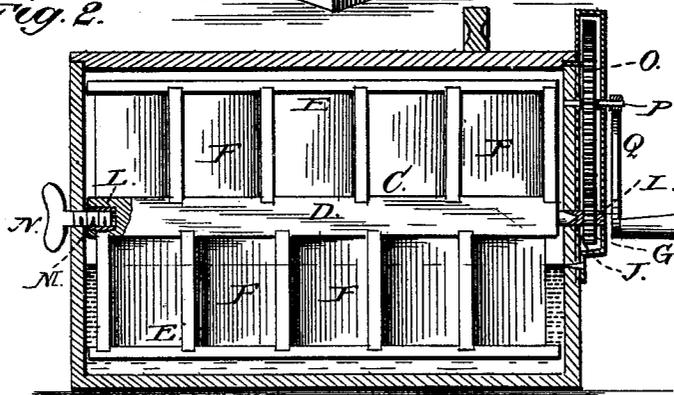
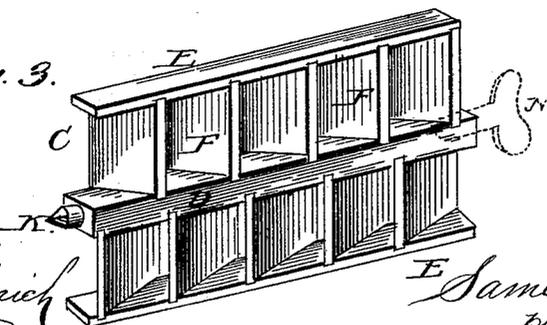


Fig. 3.



Witnesses;
Fred G. Dietrich
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UNITED STATES PATENT OFFICE.

SAMUEL K. FERGUSON, OF AIR POINT, VIRGINIA.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. **218,669**, dated August 19, 1879; application filed June 19, 1879.

To all whom it may concern:

Be it known that I, SAMUEL K. FERGUSON, of Air Point, in the county of Roanoke and State of Virginia, have invented certain new and useful Improvements in Churns; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a perspective view. Fig. 2 is a vertical longitudinal sectional view, and Fig. 3 is a view of the dasher detached.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to that class of churns having horizontal rotary dashers; and it consists in certain improvements in the construction of the same, which will be hereinafter more fully described, and particularly pointed out in the claim.

In the drawings, A represents the churn-box, which is provided with a suitable cover, B. C is the dasher, which consists of a central longitudinal shaft or shaft, D, and side pieces, E E, connected to the central shaft by leaves F F, set diagonally, as shown, and on the two sides in opposite directions. G is a pinion, the shaft of which is journaled in one end of the churn-box, and in a bracket, H, suitably secured upon the end of the box. The inner-end of the shaft I of the pinion has a polygonal recess, J, to receive a stud, K, upon one end of the dasher-shaft. The other end of said dasher-shaft is provided with a bearing, L, working upon a gudgeon or pivot, M, formed upon the end of a thumb-screw, N, inserted into the end of the churn-box. The dasher is thus arranged to rotate horizontally in the churn-box.

O is a gear-wheel suitably arranged to engage the pinion G. The shaft D of said gear-wheel is provided with a crank, Q, for operating the churn.

With my improved churn, the operation of which will be readily understood from the foregoing description taken in connection with the drawings hereto annexed, butter may be made very rapidly and easily, the dasher, from its peculiar construction, acting to beat and cut the cream very effectually. The inclined position of the wings or leaves F F renders the operation very easy, and, owing to the oppositely-inclined position of the beaters on opposite sides, the cream is constantly cut in opposite directions, thereby hastening the result.

Another important advantage is the tendency of my improved dasher to gather the butter, which, at the end of the operation, will be found to have formed into a complete lump.

After churning, the churn may be cleaned by simply filling the box with hot water and giving the crank a few turns. If it is desired, however, to remove the dasher, this can easily be done by first removing the thumb-screw N.

The construction is simple, and the device may be manufactured at a small expense.

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

The combination, with the churn-box A, of the horizontally-journaled dasher C, consisting of a central shaft, D, and side pieces, E E, connected to said shaft by wings or beaters F F, set on the two sides in oppositely-inclined directions, as shown, and mechanism for operating said dasher, as set forth.

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

SAMUEL K. FERGUSON.

Witnesses:

PEYTON A. RANDOLPH,
F. M. WILLETT.