S. JEFFERS.

RECIPROCATING-CHURN.

No. 193,119. Patented July 17, 1877.

Fig. 1.

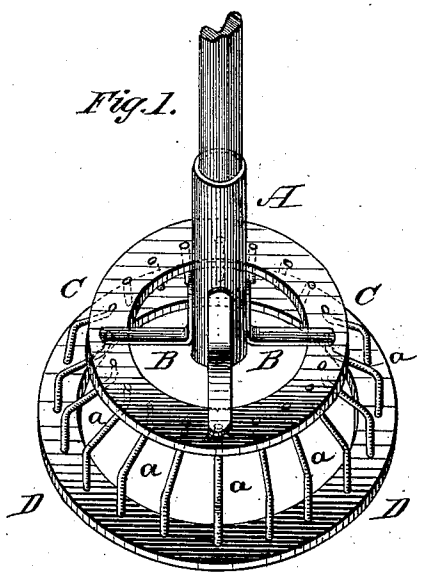


Fig. 2.

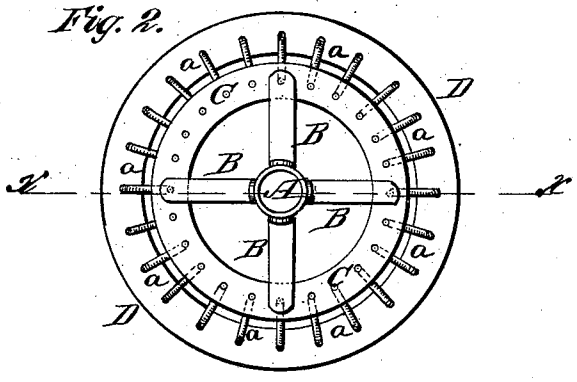
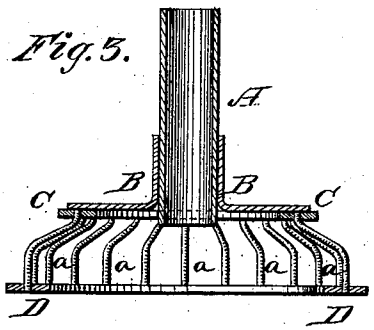


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

SELAH JEFFERS, OF LITCHFIELD, MICHIGAN.

IMPROVEMENT IN RECIPROCATING CHURNS.

Specification forming part of Letters Patent No. **193,119**, dated July 17, 1877; application filed April 20, 1877.

To all whom it may concern:

Be it known that I, SELAH JEFFERS, of Litchfield, in the county of Hillsdale and State of Michigan, have invented certain new and useful Improvements in Churn-Dashers; and I 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 appertains 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.

The nature of my invention consists in the construction and arrangement of a churn-dasher, as will be hereinafter more fully set forth.

In the annexed drawing, which fully illustrates my invention, Figure 1 is a perspective view. Fig. 2 is a plan view, and Fig. 3 is a central section on line *x x* of Fig. 2.

A represents a ferrule or socket for the reception of the dasher rod or handle, which may be fastened therein by any suitable means. To the lower end of this ferrule or socket are attached L-shaped arms B B, to the outer ends of which is secured a flat ring, C, arranged to be concentric with the socket or ferrule. D represents a similar flat ring, so much larger that the inside diameter of the said ring D is the same as the outside diameter of the ring C, or thereabout. This ring D is placed below the ring C, and connected with the same by a series of wire arms, *a a*, bent in the angular form, substantially as shown, and having their ends inserted and riveted, soldered, or otherwise fastened in holes made in the two rings at suitable distances apart.

This dasher is to be worked in the ordinary up-and-down manner. As it descends into the cream the flat rings C D necessarily carry a small quantity of cream down with them into the cream, and the numerous wire arms, in connection with the flat surfaces of the rings, cut the cream finer, and hence make more butter. At the same time there is not any excessive quantity of air carried down, which would create resistance, and therefore even a child can operate the dasher.

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

1. The within-described churn-dasher, composed of the flat rings C and D of unequal diameter, and connected together by a series of angular or bent wire arms, *a*, substantially as and for the purposes herein set forth.

2. The combination of the flat rings C D, angular or bent connecting-wires *a*, the L-shaped arms B, and central socket or ferrule A, substantially as and for the purposes herein set forth.

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

SELAH JEFFERS.

Witnesses:

L. B. WOODWARD,

DAN. H. MILLS.