

R. S. SHERMAN.

Churn Dasher.

No. 7,550.

Patented Aug. 6, 1850.

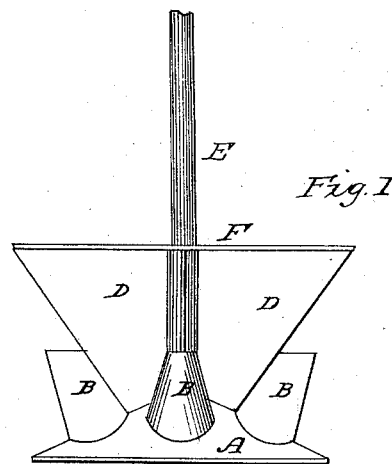
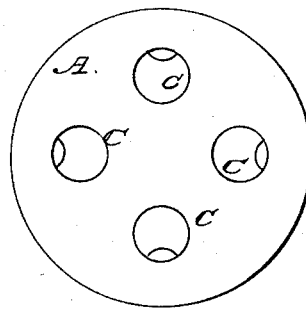


Fig. 2



UNITED STATES PATENT OFFICE.

ROBERT S. SHERMAN, OF NAPONOCK, NEW YORK.

CHURN-DASHER.

Specification of Letters Patent No. 7,550, dated August 6, 1850.

To all whom it may concern:

Be it known that I, ROBERT S. SHERMAN, of Naponock, in the county of Ulster and State of New York, have invented a new and useful Improvement in the Construction of the Churn-Dasher, which is described as follows, reference being had to the annexed drawings of the same, making part of this specification.

Figure 1 shows an elevation of the dasher. Fig. 2, is a bottom view of same.

My improvements consist in constructing the concave dasher or bottom plate A, with four or more inverted funnel shaped tubes B, projecting upward and outward therefrom at equal distances apart and concentric to the circle of the concave dasher or bottom plate A, there being openings C in said concave dasher corresponding with the funnel shaped tubes B, and in connection with these tubes, arranging four or more radial wings or plates D, around the staff E, of the dasher, whose outer edges are inclined upward and outward directly over the upper or smaller ends of the funnel shaped tubes, and having a circular cap plate or disk F, placed over their upper edges, of a circle greater than the circle of the funnel shaped tubes, by which arrangement of inclined tubes, radial wings, and cap plate or disk, it will be seen that on the descent of the dasher and staff, the cream will be forced upward through the openings C, in the concave dasher, and

inclined tubes B, in streams, against the inclined edges of the radial wings or plates D, and divided and deflected or thrown out by the cap plate or disk, nearly horizontally against the sides of the churn tub, the cream from each funnel shaped tube being divided into two streams, on either side of the radial wings before it strikes the underside of the cap plate, or disk F, by which the body of the cream is thoroughly agitated, and thrown from the underside of the cap plate or disk, in small streams or sprays, which has the effect of uniting the particles of butter in the space of a few minutes.

The ascent of the dasher and staff lifts the cream in a body and throws it from the cap plate or disk in a circular sheet, which facilitates the collection of the particles of butter as they are formed. E is the dasher staff, secured in the center of the radial wings in the usual manner.

Having described my improvements on the churn dasher, all that I claim and desire to secure by Letters Patent is—

The combination of the funnel shaped tubes B, radial wings or plates D, inclining upward and outward directly over the ends of the tubes B, with the circular cap plate or disk F, for the purpose as described.

R. S. SHERMAN.

Witnesses:

I. S. SMITH,
F. W. COLCLOZER.