(No Model.) 2 Sheets—Sheet 1.

C. BERST.

CHURN DASHER.

No. 271,301. Patented Jan. 30, 1883.

Fig. 1.

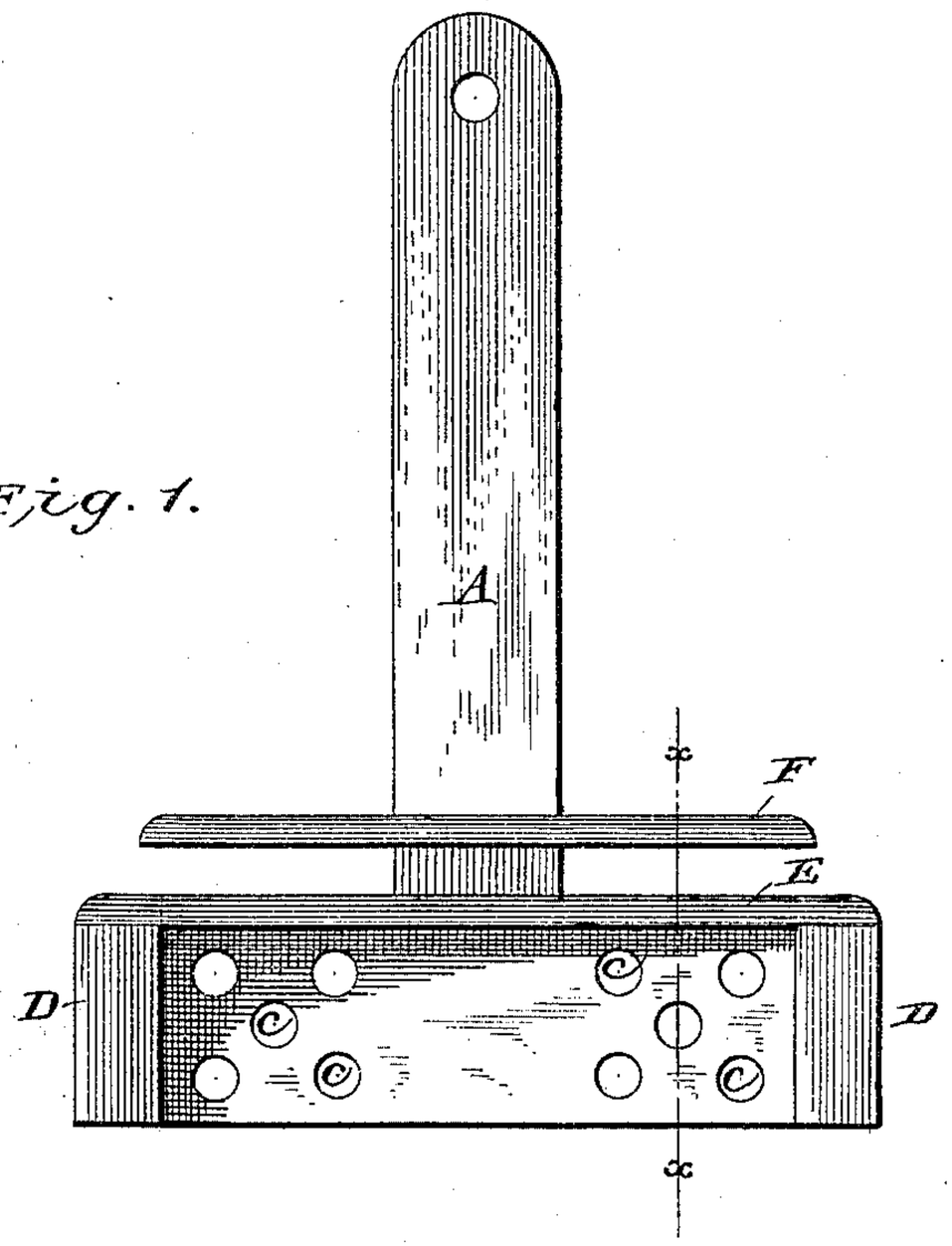
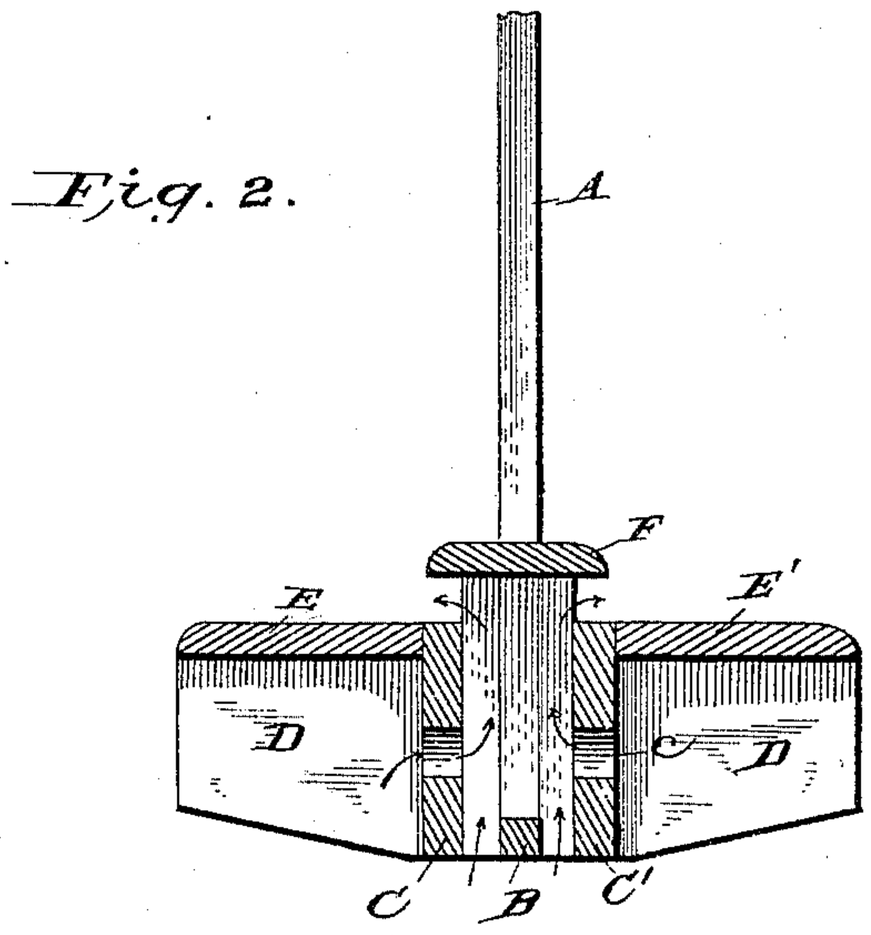


Fig. 2.



Witnesses:
A. M. Long.
Fromhold Janus.

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by Howard a. Thom.
Atty.

(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

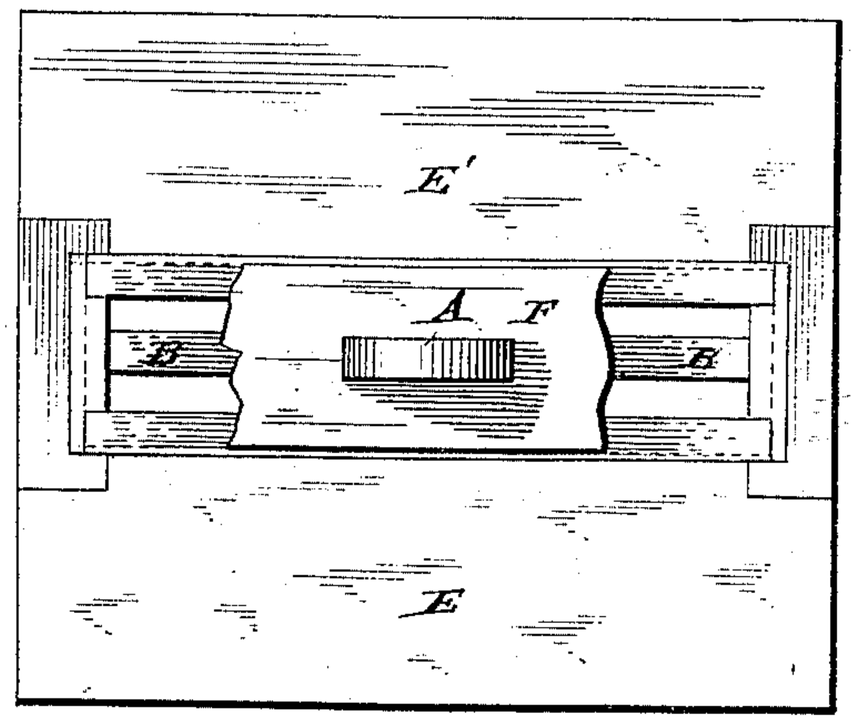
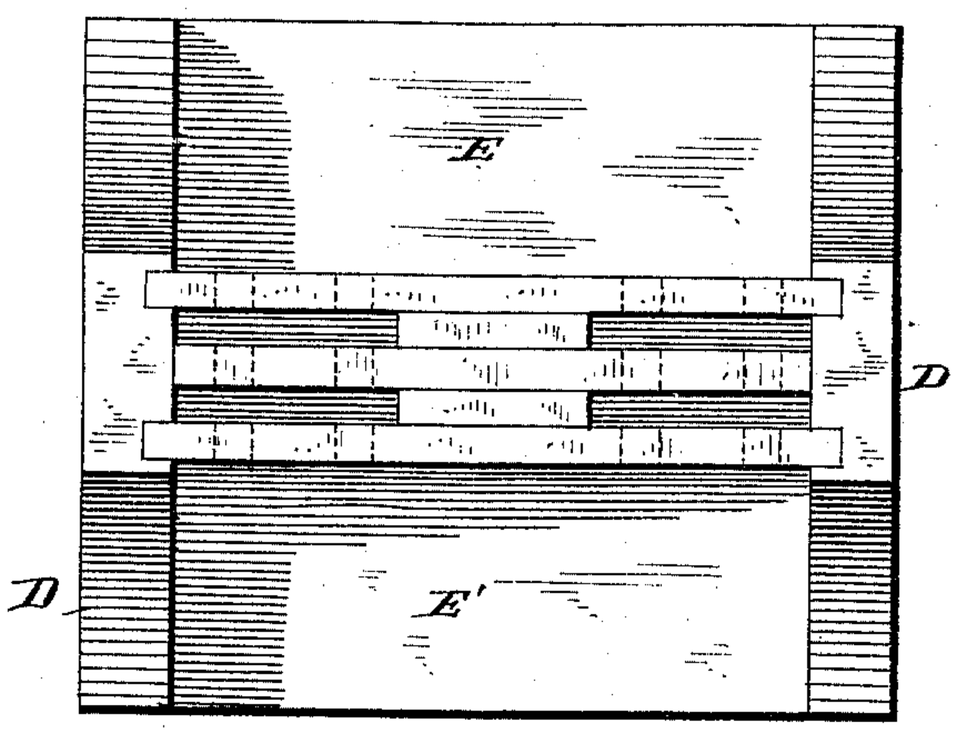


Fig 4.



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UNITED STATES PATENT OFFICE.

CONRAD BERST, OF PRINCETON, MISSOURI.

CHURN-DASHER.

SPECIFICATION forming part of Letters Patent No. 271,301, dated January 30, 1883.

Application filed October 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, CONRAD BERST, a citizen of the United States, residing at Princeton, in the county of Mercer and State of Missouri, have invented certain new and useful Improvements in Churn-Dashers, of which the following is a specification, reference being had therein to the accompanying drawings.

Figure 1 is an end elevation of my improved churn-dasher. Fig. 2 is a sectional view taken on lines *x x*, Fig. 1. Fig. 3 is a top plan view, and Fig. 4 is a bottom plan view, further showing the construction and arrangement of parts.

Similar letters denote like parts.

My invention relates to improvements in the construction of churn-dashers; and it consists in certain novel details of construction and arrangement by means of which the operation of churning may be facilitated, as will be hereinafter more particularly described.

A represents the stem or handle of my improved churn-dasher, and it passes down through a vertical chamber between the parts, and is secured to the cross-bar B. The vertical chamber referred to is formed by two side pieces of the dasher and the perforated stationary slats or ribs C C′, that extend across the dasher, and are secured to the side pieces, D D, to which side pieces are also secured the top covering-boards, E E′, which close the space between the side pieces up to the perforated slats or ribs C C′, the only passage through the dasher being through the vertical chamber between the said slats C C′. The slats are provided with lateral perforations, through which liquid can enter to vertical chamber only in horizontal streams.

The deflecting-plate F is a strip of wood or other suitable material, and is secured to the stem A about half an inch (more or less) above the chamber, between the horizontally-perforated ribs C C′, and it is slightly wider and longer than the said chamber, but not longer than the width of the dasher. As the dasher is forced downward through the cream the same is thoroughly stirred, mixed, and shaken up, as follows: That portion of the cream between the side pieces and their covering-boards E is forced through the perforations *o* in horizontal streams from both sides, which streams meet with considerable friction from the sides of the perforations as they pass through, and as they emerge into the central chamber they impinge against and around the cross-bar B and a double stream passing upward, with which they mingle and are carried up. The whole upward current strikes the deflecting-board F, and is thereby divided and spread out evenly on both sides in two thin flat streams. Should the friction caused by the horizontal streams impinging against the vertical stream and the consolidated stream striking the deflecting-board F not be sufficient to quickly reduce the cream to butter, the openings and central passages may be made smaller.

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

1. A churn-dasher formed with covered end chambers communicating by horizontal perforations with a central vertical chamber, provided with a strip or bar secured in the bottom of the lower portion and adapted to divide the entering upward current, and a deflecting-board located close above the top of the said central chamber, substantially as described.

2. In a churn-dasher, the combination, with the sides D, cross-bar B, handle A, and deflecting-board F, of the horizontally-perforated ribs C C′, and covering-boards E E′, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CONRAD BERST.

Witnesses:

JAMES F. BRADY,

T. W. BELT.