

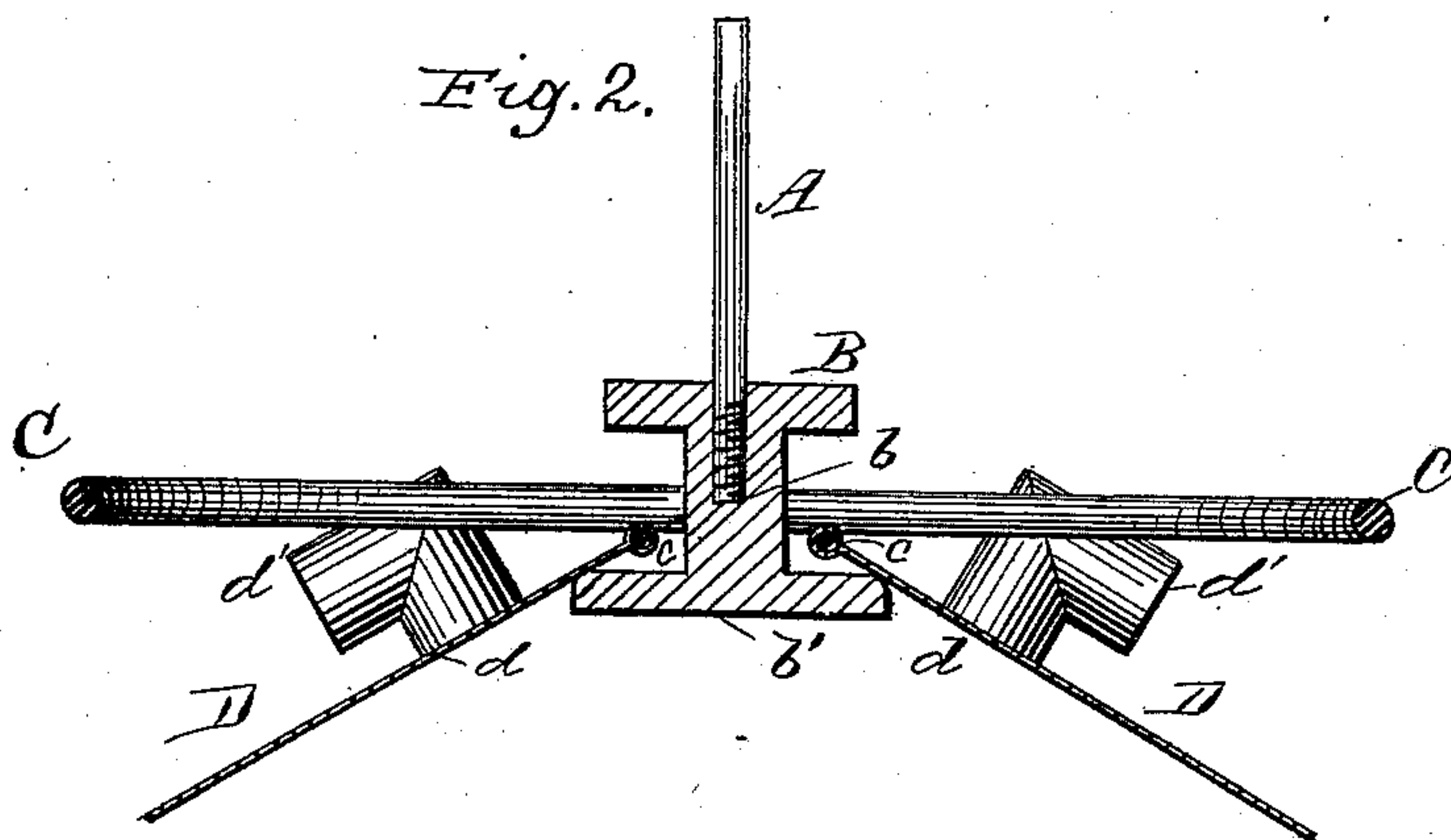
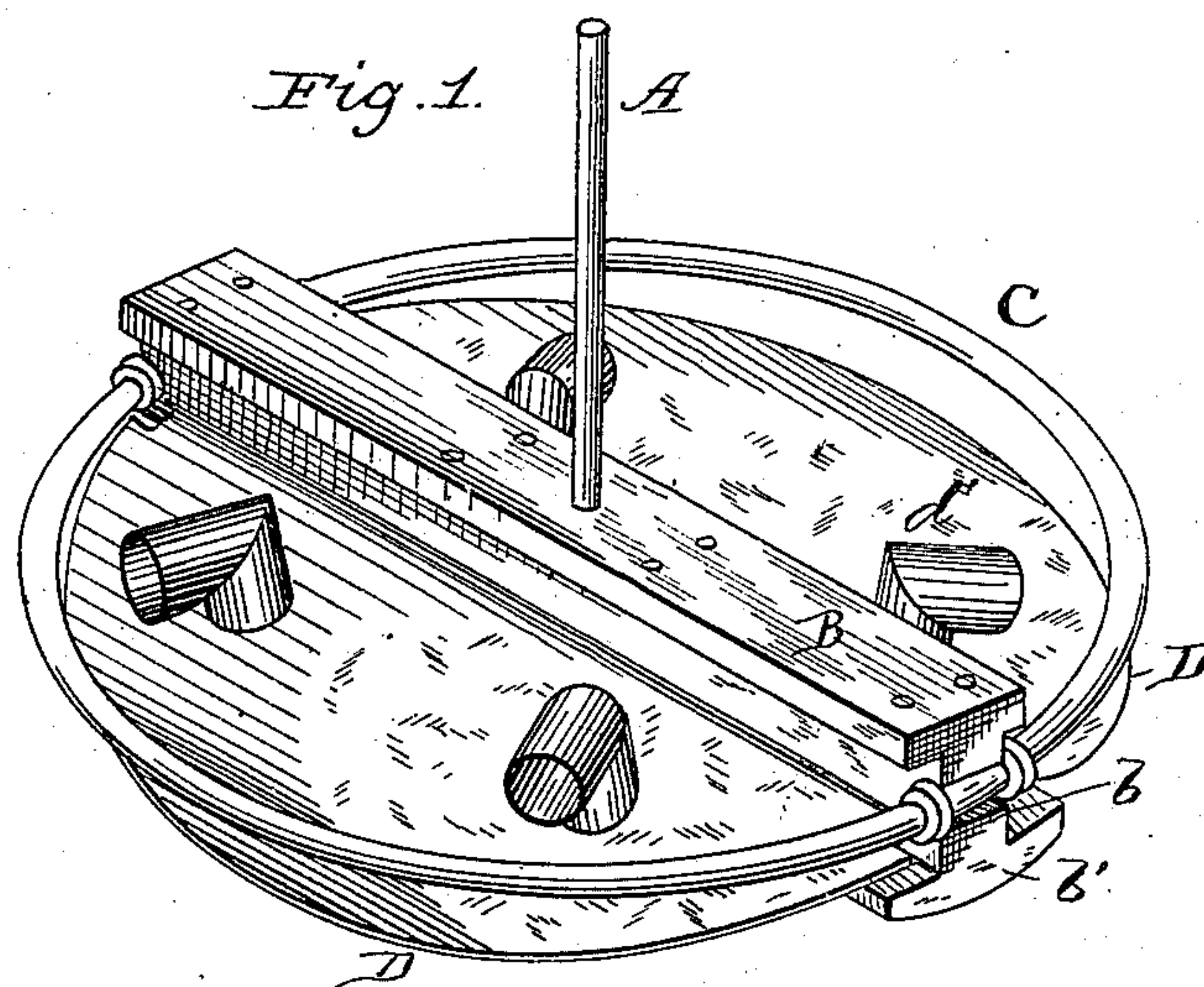
(No Model.)

R. WEBB & M. G. BROOKS.

CHURN DASHER.

No. 294,706.

Patented Mar. 4, 1884.



Witnesses:
W. Johnson
L. C. Hills

Inventors,
Robert Webb and Milton G. Brooks
[Signature]

Atty

UNITED STATES PATENT OFFICE.

ROBERT WEBB AND MILTON G. BROOKS, OF ELK FALLS, KANSAS.

CHURN-DASHER.

SPECIFICATION forming part of Letters Patent No. 294,706, dated March 4, 1884.

Application filed June 14, 1883. (No model.)

To all whom it may concern:

Be it known that we, ROBERT WEBB and MILTON G. BROOKS, citizens of the United States of America, residing at Elk Falls, in the county of Elk and State of Kansas, have invented certain new and useful Improvements in Churn-Dashers; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as 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 letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in churn-dashers, its object being to provide a means whereby the globules of cream will be readily broken, thereby hastening the operation of churning; and to this end our invention consists in the construction and combination of parts, as will be hereinafter set forth, and pointed out in the claim.

In the annexed drawings, which illustrate our invention, Figure 1 is a perspective view, and Fig. 2 is a transverse section.

A represents the handle of the dasher, to which is attached a cross-bar, B, having a central downwardly-projecting portion, *b*. Immediately under the said projecting portion of this bar B, adjacent to the sides of the under portion, *b*, of the same, are secured two wires, *c c*, which are parallel with the sides of this cross-bar, and are securely attached at their ends to a circumferential wire rim, C, which rim is attached to the cross-bar B by being inserted in a groove which is formed in the upper part of the bar *b*.

The parts hereinbefore described are all attached immovably or rigidly to each other.

To the transverse wires *c c*, under the rim C, are secured two hinged wings, D D, said wings being of sufficient length to extend beyond the rim C, so as to prevent the same from passing upwardly beyond the said rim. The wings D D are provided at suitable points with per-

forations *d*, above which are attached tubes *d'*, which are bent, as shown, so that the upper part will be parallel with the side wings, D D.

The operation of this invention may be described as follows: The dasher, being intended to be used in an ordinary churn by reciprocating the handle, should be of about the same diameter as the churn-body. On the downward stroke of the churn-dash the wings D D will come in contact with the rim C, which will hold the same in a horizontal position, and as the dasher is forced downward, the cream will be forced through the perforations in said wings and outward against the side of the churn. On the upward stroke the wings will be inclined, as shown in Fig. 2. These wings are prevented from hanging parallel with each other when the dasher is constructed as shown by means of a cross-bar, *b'*, against which the wings will strike, though when the dasher is constructed as hereinbefore set forth the pipes *d'* may be of such a length as to strike against the side plate attached to the rim C, thus providing a means of producing, when the dasher is on its upward stroke, counter-currents of cream in the churn.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a reciprocating churn-dasher, the cross-bar B, with a downwardly-projecting portion, *b*, and the rim C, secured to the cross-bar within grooves, and provided with wires *c c*, to which are hinged side wings, D D, which are perforated and provided with exit-pipes having outwardly-projecting ends, the parts being combined and organized, substantially as shown, and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

ROBERT WEBB.
MILTON G. BROOKS.

Witnesses:

W. A. BATEMAN,
JOHN ABBOTT.