

(No Model.)

J. H. EDGERLY.
CHURN DASHER.

No. 474,117.

Patented May 3, 1892.

Fig. 1.

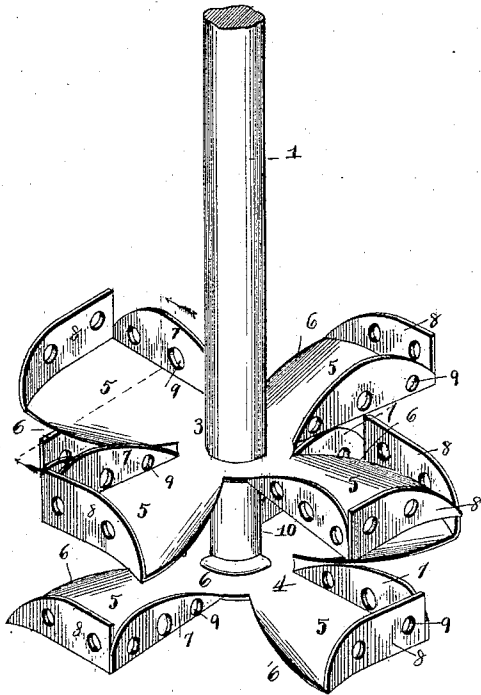


Fig. 2.

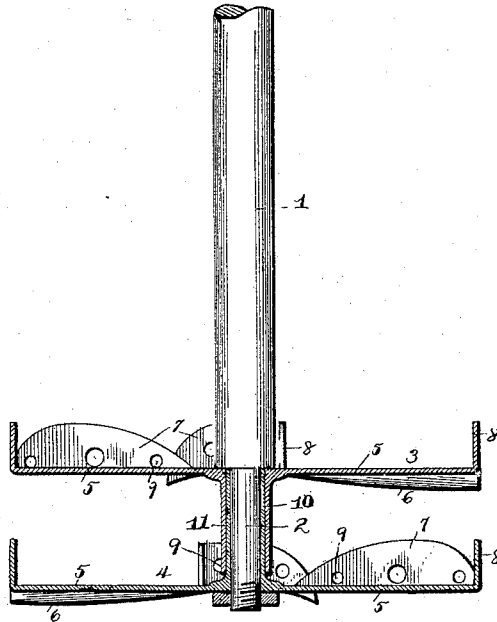
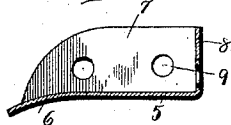


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH H. EDGERLY, OF MORRILLTON, ARKANSAS.

CHURN-DASHER.

SPECIFICATION forming part of Letters Patent No. 474,117, dated May 3, 1892.

Application filed October 23, 1891. Serial No. 409,580. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH H. EDGERLY, a citizen of the United States, residing at Morrillton, in the county of Conway and State of Arkansas, have invented a new and useful Improvement in Churn-Dashers, of which the following is a specification.

The invention relates to improvements in churn-dashers.

10 The object of the present invention is to provide for vertically-reciprocating churn-rods a dasher which will rapidly convert cream into butter, and which will not splatter or spill the cream during churning, and by which the
15 cream will be thoroughly aerated.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed
20 out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a churn-dasher constructed in accordance with this invention. Fig. 2 is a vertical sectional view. Fig. 3 is a section taken trans-
25 versely of one of the wings or blades.

Like numerals of reference designate corresponding parts in all the figures.

1 designates a dasher-rod provided at its lower end with a spindle or journal 2, upon
30 which are mounted dashers 3 and 4, which are oppositely or reversely arranged and are adapted to be rotated in opposite directions by the vertical reciprocation of the dasher-rod, whereby the cream to be churned is thor-
35 oughly agitated without splashing or spilling and butter is quickly produced. The dashers 3 and 4 are reversely arranged, and each is constructed of sheet metal or similar material and consists of four blades or wings 5
40 and is provided with a central opening to receive the spindle or journal 2. The wings or blades are approximately arranged in a horizontal plane, and each has one side 6 curved and bent downwardly, whereby the dasher is
45 rotated when the rod is reciprocated and the other side edge and the outer edge are bent upward to form flanges 7 and 8, which are provided with perforations 9, whereby air is forced through the cream when the dashers

are vertically reciprocated and oppositely ro- 50 tated. The blades or wings 5 of the upper and lower dashers are oppositely arranged—that is to say, the side edges of the wings of the upper dasher are bent downward, while the corresponding edges of the lower dasher 55 are bent upward to form flanges, whereby the dashers will be rotated in opposite directions.

A sleeve 10 is interposed between the upper and lower dashers to maintain them the 60 proper distance apart, and it is secured to the former. The lower dasher is provided with a sleeve 11, secured to it and extending upward therefrom and arranged within the depending sleeve of the upper dasher, where- 65 by the dashers oppositely rotate without friction.

From the foregoing description and the accompanying drawings the construction, operation, and advantages of the invention will be 70 readily understood.

What I claim is—

1. The combination, with a dasher-rod provided at its lower end with a journal, of the upper and lower dashers mounted thereon 75 and constructed of suitable metal and composed each of four blades and each having its edges at one side bent downward and having its edges at the opposite side and end bent upward and forming flanges, substantially as 80 described.

2. The combination, with a dasher-rod provided at its lower end with a journal, of the upper and lower dashers mounted thereon 85 and constructed of sheet metal and composed of four blades having their edges at one side bent downward and their edges at the opposite side and outer end bent upward and forming flanges and provided with perforations, 90 substantially as described.

3. The combination, with a dasher-rod provided at its lower end with a journal, of the upper and lower dashers mounted thereon 95 and each constructed of sheet metal and consisting of the four wings or blades each having one side edge bent downward and the opposite side and end edges bent upward and forming flanges and provided with perfora-

tions, said dashers being oppositely or reversely arranged, the depending sleeve secured to the upper dasher and interposed between the same and the lower dasher and the upwardly-extending sleeve secured to the lower dasher and arranged within the depending sleeve, substantially as described.

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

J. H. EDGERLY.

Witnesses:

J. A. VAN PELT,

J. W. HERVEY.