

ALICE W. McCLURE.

Improvement in Churn Dashers.

No. 132,767.

Patented Nov. 5, 1872.

Fig. 1.

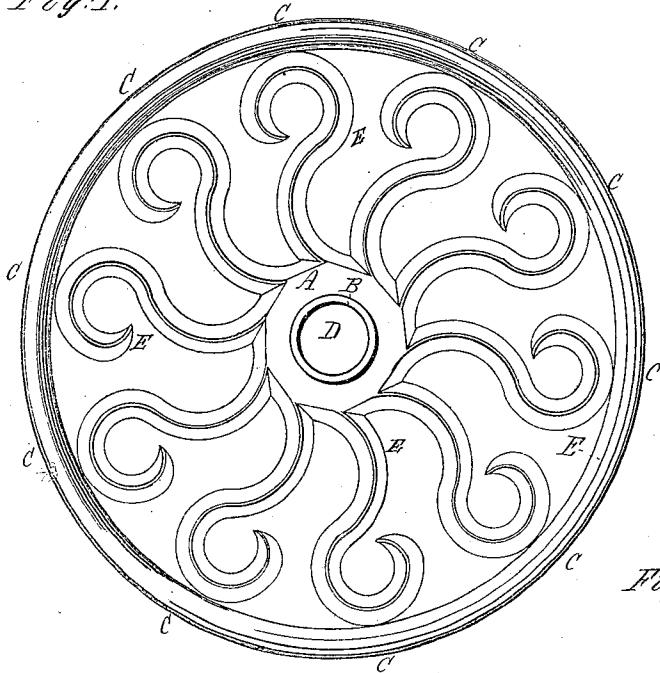


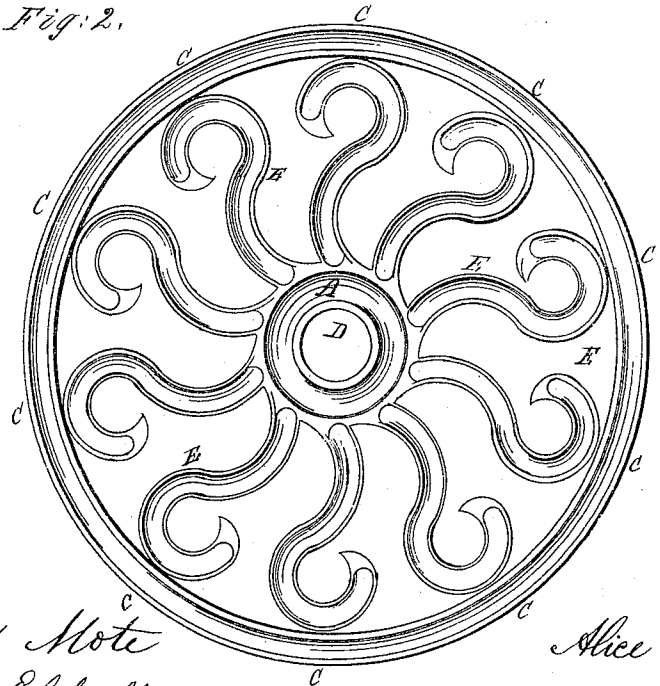
Fig. 3.



Fig. 4.



Fig. 2.



Witnesses

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ALICE W. McCLURE, OF RICHMOND, INDIANA.

IMPROVEMENT IN CHURN-DASHERS.

Specification forming part of Letters Patent No. 132,767, dated November 5, 1872.

To all whom it may concern:

Be it known that I, ALICE W. McCLURE, of Richmond, county of Wayne, and State of Indiana, have invented an Improvement in Churn-Dashers, of which the following is a full and exact description, reference being had to the annexed drawing.

Figure 1 is a plan view of the upper side of the dasher. Fig. 2 is a like view of the lower side of same. Fig. 3 is a cross-section of outer rim or circle. Fig. 4 is a similar section of one of the compound curved and grooved radiating arms.

Letters of like name and kind refer to like parts in each of the figures.

The object of my invention is to produce a churn-dasher which would answer for ordinary upright churns, and be cheap, effective, easily operated, and at the same time obviate some positive defects and inconveniences of other churn-dashers with which I am acquainted. My invention consists in the peculiar construction of my device, in which compound curved and grooved arms radiate from a common center or hub, and are attached to an outer ring or rim surrounding the whole, both the arms and outer rim being either curved downward or A-shaped on the upper surfaces, and concave or grooved on the lower surfaces.

In the drawing, A is the hub or central portion of the dasher, grooved on its under surface in a circle round the center, and containing a round opening, D, for the reception of the staff or handle. From this hub A, with its raised flange B, project radially the compound curved and grooved arms E, arranged regularly at equal distances around the hub A in such compound curves that, uniting with the outer rim C, they form a dash of great strength and beauty, and also allow greater facility for cleaning after use.

The form and construction of my dash are peculiarly adapted for casting, with suitable metal, in a single piece, the compound curved and grooved arms allowing the contraction of the metal while cooling without causing fracture by contraction, and the compound curves allow also the expansion of the same when subjected to heat from boiling water, &c. I have them manufactured in the above manner, and experience has abundantly proved their excellence by preventing frequent and vexatious losses by fracture of metal dashers of other forms from the above causes of expansion and contraction of the metal. The peculiar compound curved arms have also great advantages in carrying down atmospheric air and rupturing the butter globules in the milk or cream, and combining thereby very much to shorten the time and labor in producing butter. While I have seen and used various other metal churn-dashers, my experience has shown me that mine unites all the speed and ease of labor, strength of form, beauty of design and finish. It also possesses the additional merit above all others of greater facility for cleansing and perfect freedom from fracture by the extremes of heat and cold, and the consequent expansion and contraction of the metal which produce the fracture.

What I claim as my invention is—

The metallic churn-dasher herein described, consisting of the combination of the hub A with the raised flange B, the compound curved and grooved radial arms E attached in manner and form as shown to the outer grooved ring C, as and for the purposes herein specified.

ALICE W. McCLURE.

Witnesses:

J. A. BARTLETT,
STEPHEN ELLIOTT.