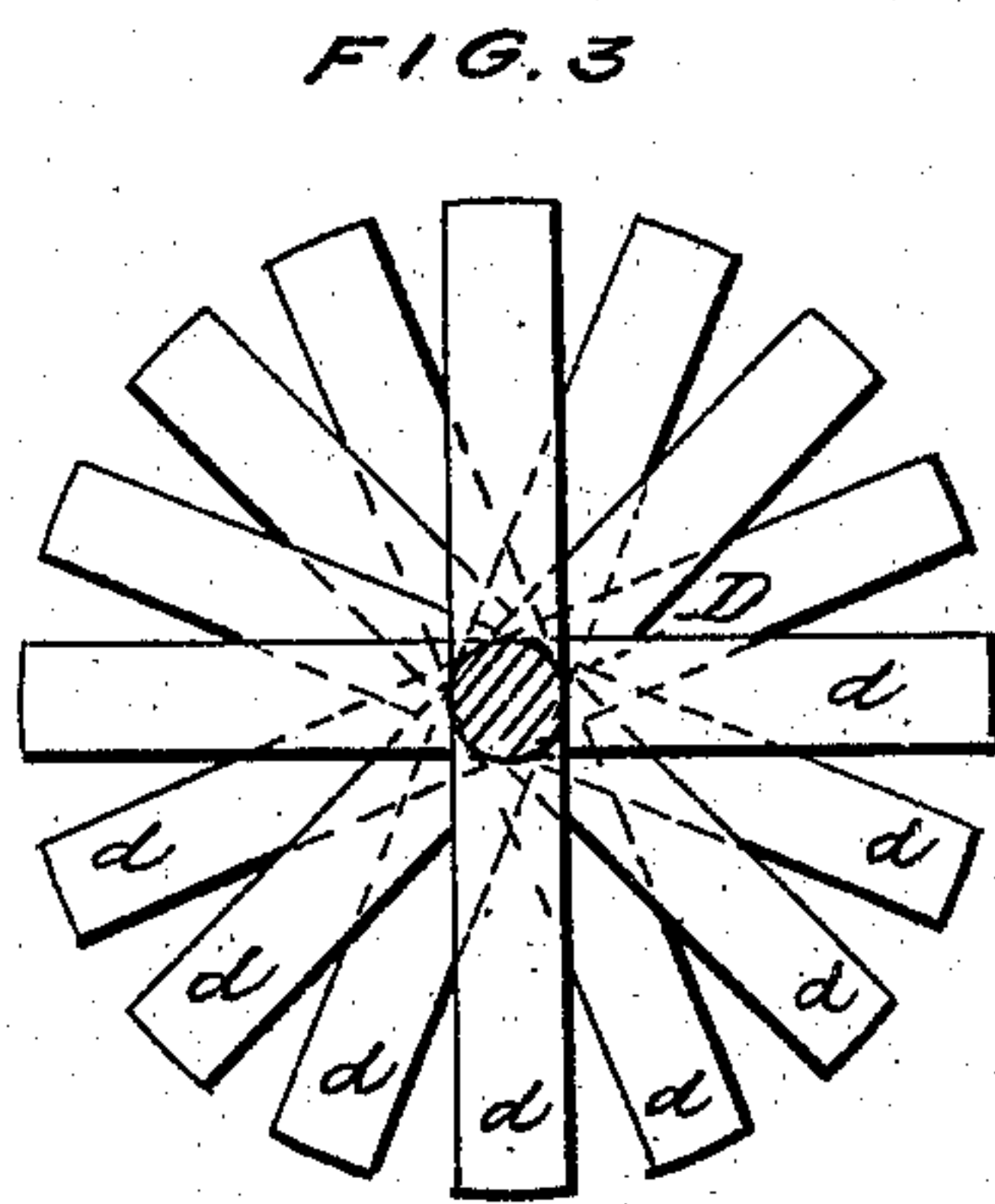
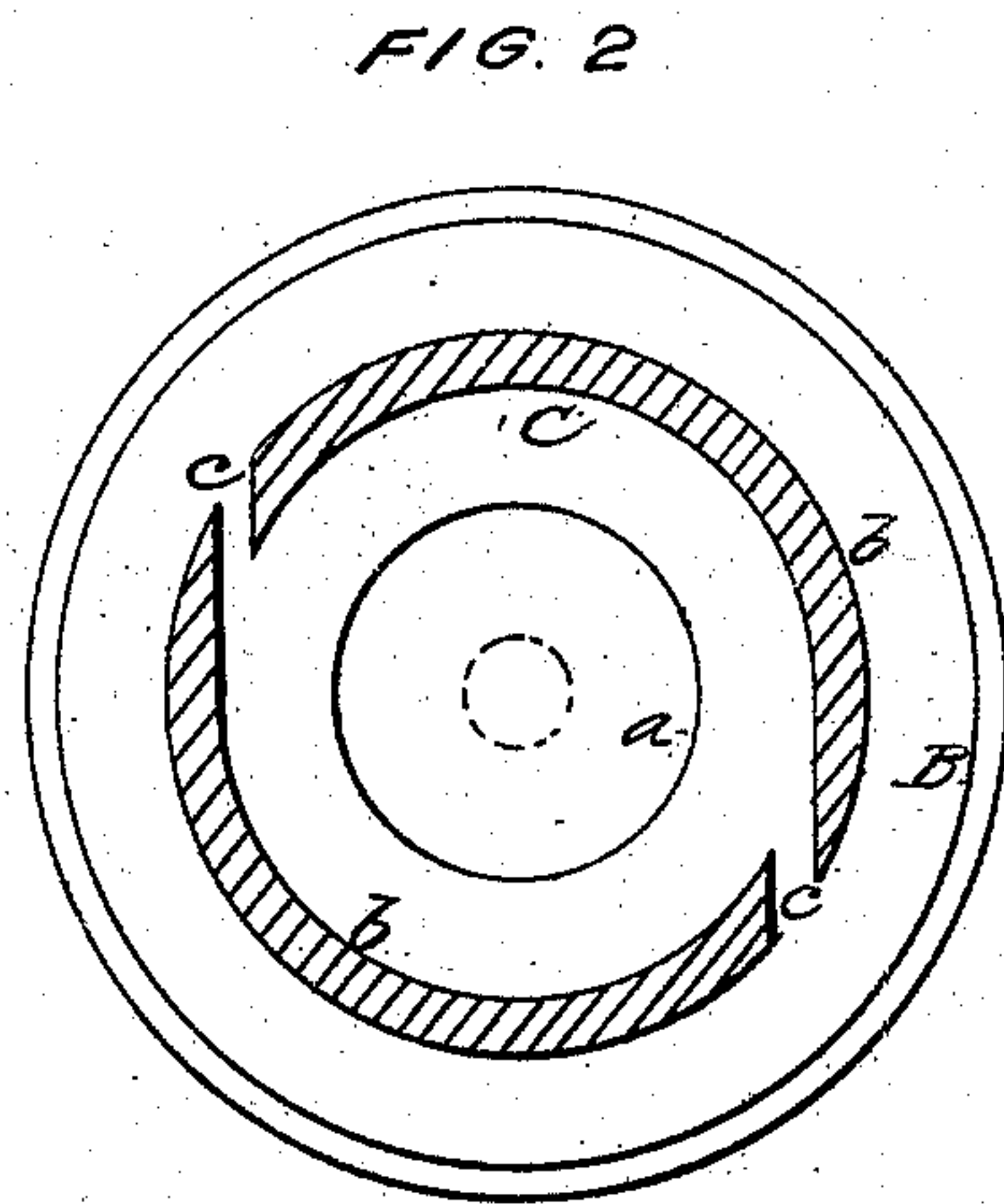
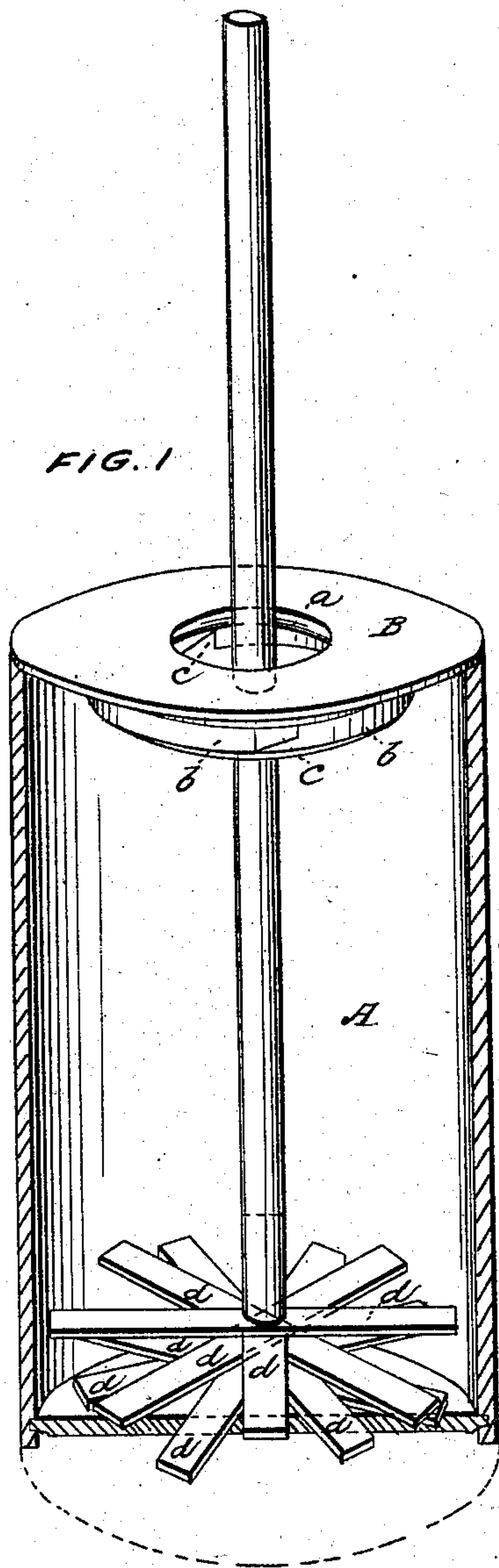


J. C. GASTON.

Churn.

No. 66,015.

Patented June 25, 1867.



WITNESSES:
Charles L. Fisher
William B. LeGrand.

INVENTOR:
J. C. Gaston

United States Patent Office.

JAMES C. GASTON, OF CINCINNATI, OHIO.

Letters Patent No. 66,015, dated June 25, 1867.

CHURNS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, J. C. GASTON, of Cincinnati, Hamilton county, and State of Ohio, have invented a new and useful improvement in Churns, of which the following is a full and clear description, reference being had to the accompanying drawings, making part of this specification.

The nature of my invention consists in the construction of the cover of the churn whereby an ample amount of fresh air may have access to the interior of the churn through openings in the side walls of a guard-chamber immediately below the cover to which it is secured, or part of, and at the same time prevent splashing out of the milk when churning; and also to the dasher, which is composed of eight pieces, more or less, of thin strips of wood placed one above the other, and crossing in the axis of the dasher-handle, to the inner end of which they are firmly secured.

Figure 1 is a sectional perspective view of a churn embodying my improvements.

Figure 2, a sectional plan of the under side of the cover of a churn, the section being taken through the guard-chamber.

Figure 3 is a plan of my improved dasher.

A is the barrel of the churn, the upper end of which is provided with the cover B. The cover B has a large central opening, *a*, of much greater diameter than the dasher-handle which passes through it. C is the guard-chamber, having a larger diameter than the opening *a*. In the full-sized churn the depth of the chamber C is made more or less than one inch, according to the size of the churn. It is symmetrically located beneath the cover B. Through the vertical wall *b* of the chamber C are made the openings *c*, of sufficient size to admit of an ample volume of air to the interior of the churn, and so formed that no milk can pass through them, and thence over the central opening *a*. These openings *c* are in the most simple form of construction, rectangular, and are so located that a line drawn from the outer edge of an opening through the inner opposite edge of the same opening, shall be tangential to or lie without the edge of the large central opening *a* in the cover B. The opening through the bottom of the chamber C is only sufficiently large to allow of free play to the handle of the dasher. To the dasher-handle D is firmly secured the armed dasher, consisting of a pile of eight, more or less, thin strips, *d*, of wood or other suitable material; they cross each other in the centres of their lengths, the flat or broad surfaces being perpendicular to the dasher-handle D.

One of the great inconveniences experienced in churning is derived from the splashings, which is entirely obviated by using the double cover, or cover having a guard-chamber beneath it, as represented in the accompanying drawings. What little milk is drawn up through the opening in the bottom of the chamber C, is caught upon it, and does not flow over the cover B, and over the sides of the churn and on to the floor; at the same time that a free access of air is had to the interior of the churn, to commingle with the milk and aid in the collection of butter by means of the openings *c* in the vertical wall *b* of guard-chamber C. The splashings are prevented from having an egress through said openings *c*, and out through the large central opening *a*, by coming in contact with inner vertical corner of the openings *c*, in the direction of the opening *a*. The splashings are thus met by the entire exterior surface of the guard-chamber C, or are deflected from the faces of the openings *c*, and fall upon the bottom of the chamber. This construction of churn-cover enables one to perform the necessary operation of churning in a carpeted room without fear of soiling the floor-covering. The liability to splash is lessened by the use of my improved dasher, which, being provided with elastic arms *d* crossing each other at equal angles, agitates more uniformly the milk, displacing it with less violence, and renders the operation of churning more agreeable.

What I claim as my invention, and desire to secure by Letters Patent, is—

The guard-chamber C, having one or more openings, *c*, in its side wall *b*, substantially as shown and described.

J. C. GASTON.

Witnesses:

CHARLES L. FISHER,
WM. C. McCOMAS.