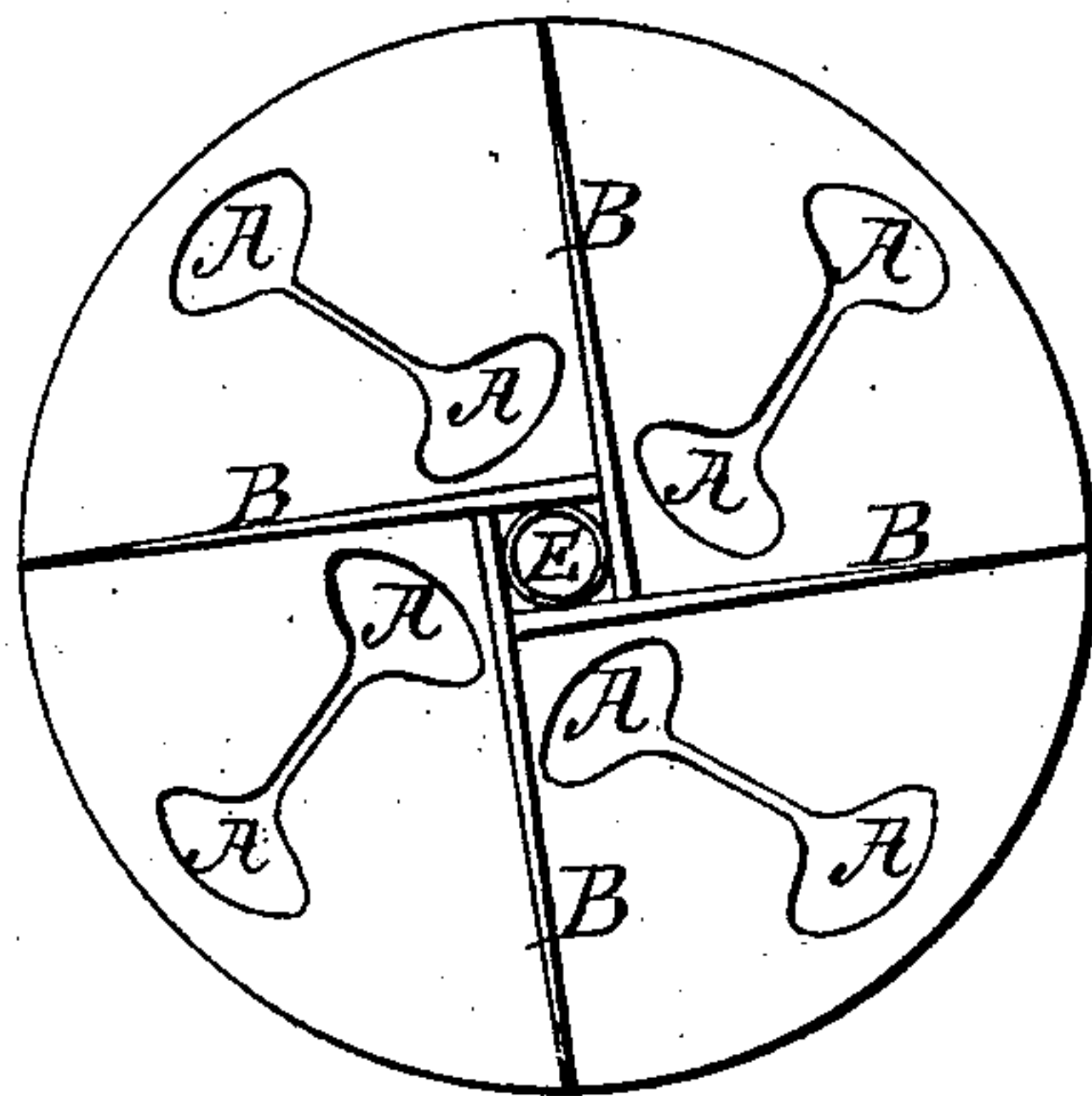
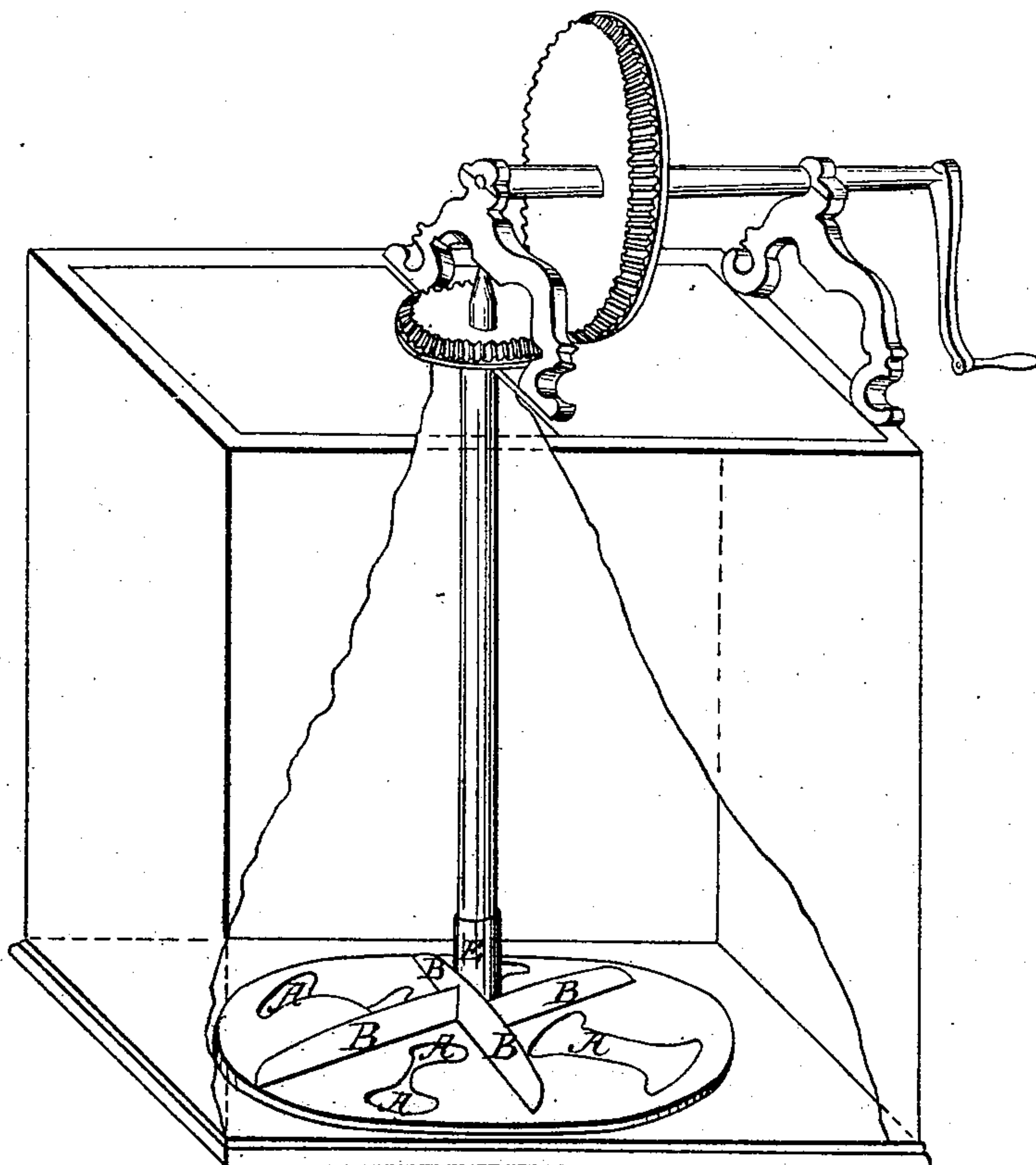


F. McTARNAHAN.

Churn.

No. 67,205.

Patented July 30, 1867.



Witnesses.
A. J. Jones
A. L. Landrum

Inventor
Francis M. Purnell

United States Patent Office.

FRANCIS McTARNAHAN, OF SANTA CLARA COUNTY, CALIFORNIA.

Letters Patent No. 67,205, dated July 30, 1867.

CHURN-DASHER.

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, FRANCIS McTARNAHAN, of the county of Santa Clara, State of California, have invented a new and improved Churn-Dasher; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and letters of reference marked thereon.

The nature of my invention consists in a circular dasher, of tin, or other sheet metal, with diagonal issues thereon, A, so as that it acts in the same manner as the blades of a main propelling-wheel, when revolving on a vertical shaft in a vessel of cream, forces the cream from above, downwards, or *vice versa*, together with four eccentric fins, B, one inch in height, on the upper face of the dasher, extending from the shaft-socket C to the edge or rim D of the dasher.

I will proceed to describe more fully its construction and operation.

First, I strike a circle the size I want the dash, then turn the edges, as tanners do, so it may not cut the hand in cleaning, &c. Then make a cross on it, and punch a hole for the shaft in the centre. One inch from that, on one of these cross-lines, I punch another hole, one inch in diameter, and on the line, one-fourth of an inch from the edge of the dash, I punch another hole, and so on all around the dash. Then I cut the space between these holes and make the edges smooth. Next, I begin at the side from me and turn these rounds; the right-hand I turn down, the left-hand turn up. Then I make a socket, the size of the lower end of the shaft, and solder it, leaving a hole the size of the shaft, about one and one-half inch deep, being in the centre of the dash. Then punch a hole from both sides near the top to fasten to the shaft, that being one and one-half inch from the bottom of the churn. The churn should be made square, either of tin or wood. Now comes the important part of my invention, the cross or eccentric fins upon the top-face of the dasher. I take a piece of tin, some two or three inches in width and long enough to fasten to the socket and reach near the edge or rim of the dasher, double it together lengthwise, and solder to the socket and top-face of the dasher edgewise, all tight together.

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

A churn-dasher, constructed as herein described.

FRANCIS McTARNAHAN.

Witnesses:

JAMES A. MORGAN,
ANDREW J. LANDRUM.