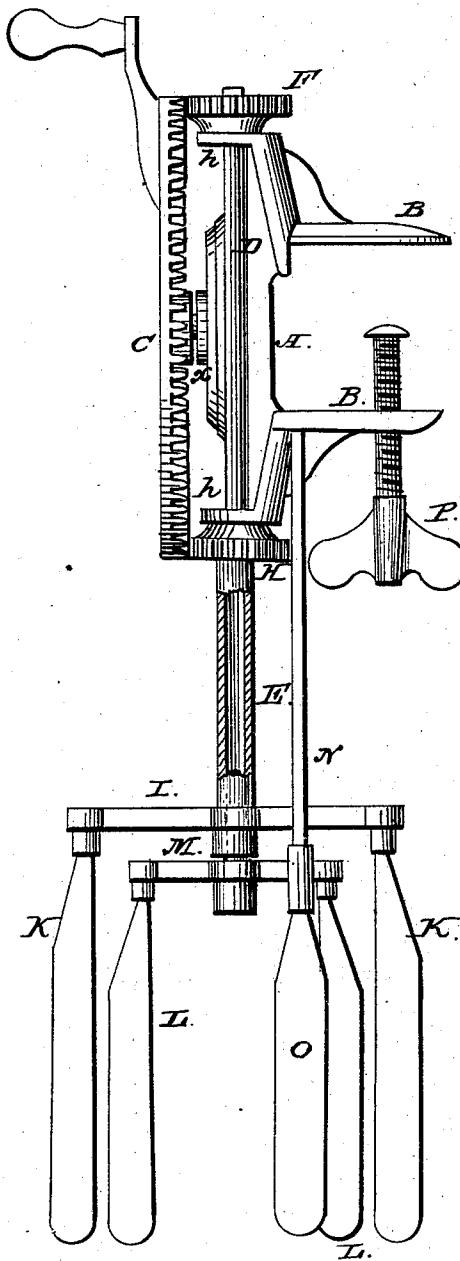


E. B. WEST.

Churn Dasher.

No. 77,939.

Patented May 12, 1868.



Inventor

*E. B. West
per Alexander Mason
atlys*

Witnesses

*Wm. Waukeen
V. D. Stockbridge*

United States Patent Office.

E. B. WEST, OF ST. ANTHONY, MINNESOTA.

Letters Patent No. 77,989, dated May 12, 1868.

IMPROVEMENT IN 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, E. B. WEST, of St. Anthony, in the county of Hennepin, and in the State of Minnesota, have invented certain new and useful Improvements in Churn-Dash; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and the letters of reference marked thereon.

In the annexed drawings, making a part of this specification, A represents a metallic plate, cast in the form shown, with two jaws B B, and a flange, α , and shoulders or ears, $h h$.

Secured to and having a bearing in the flange α , is a suitable shaft, t , to which the gear and crank-wheel C is fastened.

D represents a shaft, having its bearings in the ears $h h$, situated in a vertical position, and has the pinion F secured to its upper end on an arm, M, secured to its lower end.

Adjusted and working over the lower end of the shaft D is a sleeve-shaft, E, which has a pinion, H, secured to the upper end thereof, and the arm I at the lower end.

The gear-wheel C meshes with the pinions F and H at the top and bottom of it, and, when operated, turns them and their shafts in opposite directions. Secured or adjusted in the arm M, at the opposite ends thereof, are two dashers or agitators, L L, and also, secured in the opposite ends of the arm I, are dashers or agitators K K.

An arm, N, is secured to the under side of the lower jaw B, and projects down opposite the movable arms I and M, and has a stationary paddle, O, secured to it in the manner shown, and just so that the agitators K K will work inside of it.

Through one of the jaws B, I adjust a set-screw, P, by which this device may be secured to the edge or side of a table by slipping the lips or jaws B B over the same, and then tightening the same up by means of said screw.

This device, suspended or adjusted as above described, is used by surrounding the agitators by any suitable vessel, and as one remains stationary, and two move one way and two the other, when power is applied to the crank the most complete and perfect agitation can be given to cream or milk, thereby making the above-described machine a superior churn-dasher.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The arrangement of the arm N and stationary paddle O, as specified and for the purpose set forth.
2. The combination of the stationary arm N and its paddle O with the movable arms M I, their paddles, and the plate A, all constructed and operated as specified.

In testimony that I claim the foregoing, I have hereunto set my hand, this third day of March, 1868.

E. B. WEST.

Witnesses:

JOHN PARKER,
DAN. M. DEMMON.