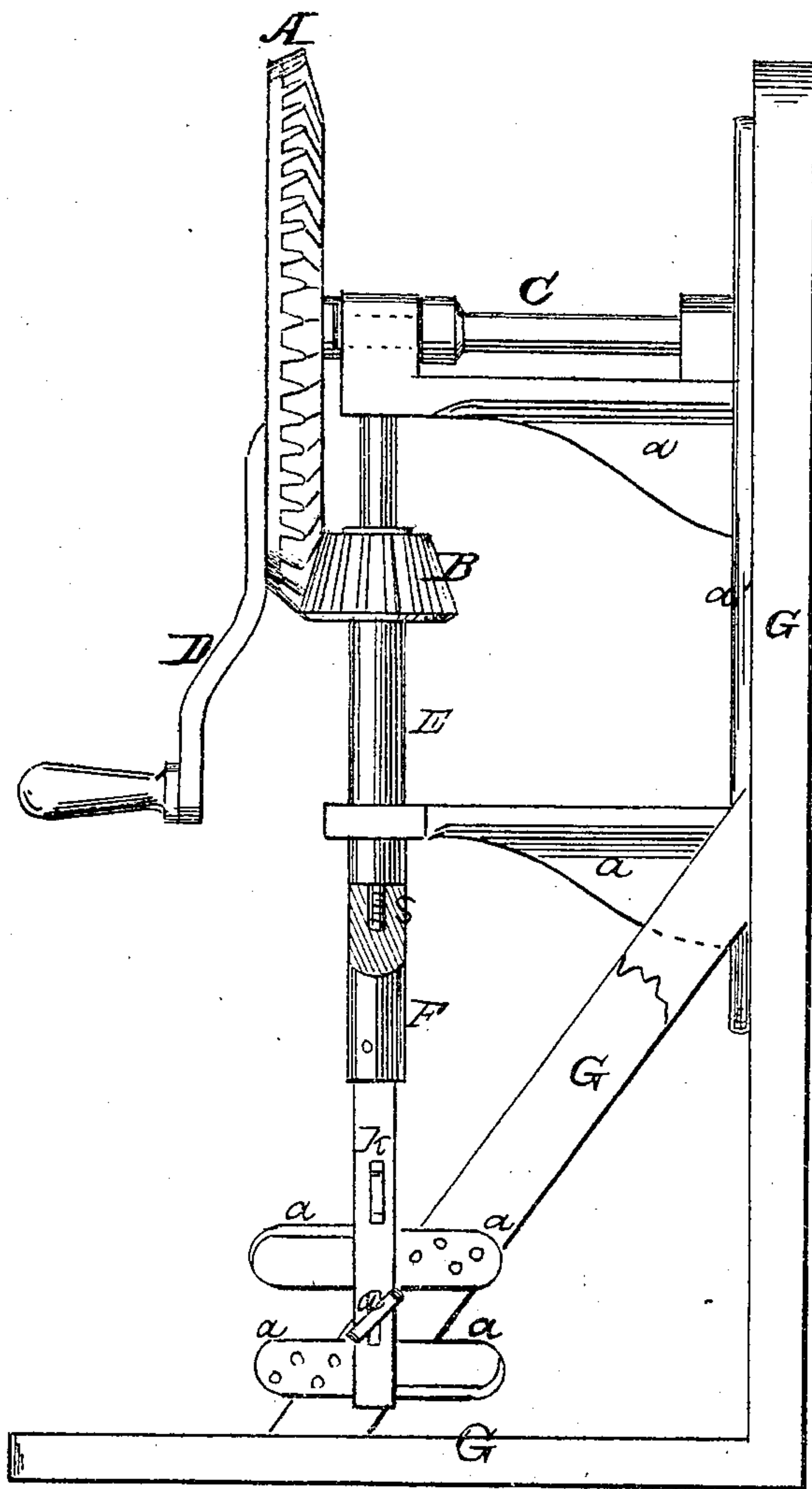


73583

*M. O. Davis' Imp<sup>d</sup> Dasher.*

PATENTED

JAN 21 1868



Witnesses.

*Theo. Incke*  
*Wm. Frewin*

Inventor.

*M. O. Davis*  
Per *Wm. Frewin*  
*Attorney*

# United States Patent Office.

MORGAN O. DAVIS, OF WARRENSBURG, NEW YORK.

*Letters Patent No. 73,583, dated January 21, 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, MORGAN O. DAVIS, of Warrensburg, in the county of Warren, and State of New York, have invented a new and improved Dasher; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and improved method of constructing dashers for churns, by means of which the butter is separated from the milk in a much shorter time, and whereby the same is easily taken apart to be cleaned.

It consists of a vertical shaft, through which are boards or paddles, having one end in a line with said shaft, and the other end inclined to said line at an angle of forty-five degrees, or thereabouts, the whole being attached to a vertical shaft, having on it a bevelled gear-pinion, driven by a bevelled gear-wheel, upon a horizontal shaft above it. Said dasher-boards are fitted in a mortise in the dasher-shaft, so that they may easily be removed, and are secured in the same by a suitable key.

The drawing represents a side view of my invention. G is an upright or frame, to which the whole is fastened. *a'* is a frame, having a back and horizontal arms, for the support of the shaft C and the shaft E, and in which they rotate. A is a bevelled-gear wheel. C is the main shaft, on which is the wheel A. D is a handle on wheel A, by means of which the same is driven. B is a pinion on the vertical shaft E, fitting into and driven by the wheel A. E is the vertical shaft to which dasher is attached. F is the dasher-shaft, attached to shaft E by the screw-thread S. *a* are the dasher-boards, fitted through the shaft F. K is the key, by means of which the dasher-boards or paddles *a* are secured in shaft F. The frame *a'* is composed of a back and two horizontal arms, at convenient distances apart, and arranged as shown in the drawing, for the support of the shafts C and E. Said frame may be secured by screws passing through the same to any upright, G, or to any convenient portion of the room. The horizontal shaft C and the vertical shaft E turn in suitable bearings on the frame *a'*, and are connected by the bevelled-gear wheel A and the bevelled-gear pinion B, in the usual way of communicating motion from a horizontal to a vertical shaft, as shown in the drawing. The wheel A is larger, and has more teeth than the pinion B, by means of which greater speed is given to the shaft E. The whole is driven by means of the handle D, attached to the wheel A. Upon the lower end of the vertical shaft E, as shown in the drawing, is a screw-thread S, by means of which the dasher-shaft F is attached to the vertical shaft E, so that the said shaft may, at any time, be removed. The lower end of the dasher-shaft F is made square, has through it mortises at right angles to each other, to receive the dasher-boards *a*, (which may be of any convenient number,) so that any one dasher-board *a* is at right angles to the one above and below it. Each mortise is cut so as to open into the mortise above and below, and so as the lower edge of one dasher-board will rest upon the upper edge of the one below, and at right angles to it. The upper mortise terminates in a key-way, through which passes the key K, and by means of which all the dasher-boards *a* are held in the shaft F, and held also firmly together. The dasher-boards *a* have one end, or the part on one side of the shaft F, in a vertical line with the said shaft F, and are provided also, in that end, with holes. The other end, or the part on the other side of said shaft, is inclined to said shaft F at an angle of about forty-five degrees.

The dasher, as above described, may be made of wood, or wood and metal combined, and, as above described, constitutes an economical and time-saving dasher for butter-churns, the advantages of which are, that butter may be quicker made and more effectually separated from the buttermilk, and also that the dash-boards, which are liable to become rancid, may be easily removed to be cleansed.

I claim as new, and desire to secure by Letters Patent—

A dasher, composed of the shaft F and dasher-boards *a* and key K, substantially as shown and described, and for the purposes set forth.

MORGAN O. DAVIS.

Witnesses:

CHAS. H. HOGAN,

WILLIAM H. DAVIS.