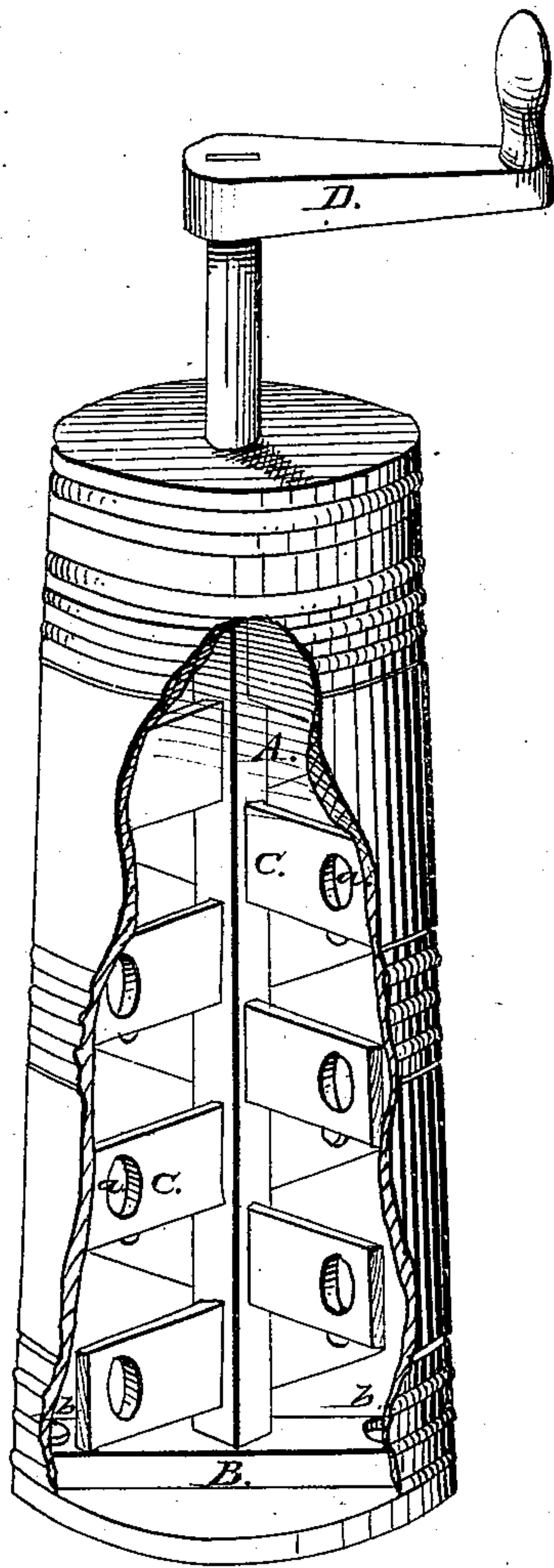


*M. E. J. Marr,*

*Churn Dasher,*

*N<sup>o</sup> 76,484.*

*Patented Apr. 7, 1868.*



*Attest* } *Witnesses:*  
*John*

*Inventor:*  
*Mary E. J. Marr*

# United States Patent Office.

MARY E. J. MARR, OF JEFFERSON, LOUISIANA.

*Letters Patent No. 76,484, dated April 7, 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, MARY E. J. MARR, of Jefferson, in the parish of Jefferson, and State of Louisiana, have invented a certain new and useful Improvement in Churn-Dashers; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawing, making a part of this specification.

My invention has for its object the accomplishment of several important economic results, among the more prominent of which it will be sufficient to indicate the following, to wit: To avoid all injurious effect upon the milk or butter, by entirely dispensing with the use of metal in the fabrication of the dasher, and the parts with which it is connected inside the churn; to provide for the easy withdrawal of the dasher from the churn, and for its instant adaptation to and introduction into another, if its use in connection with more than one churn be desirable, by employing with it a removable socket-block, for the lower end of its axis or spindle, which may be readily fixed at and upon the bottom of any other churn to which it may be transferred; to have all its parts so constructed and united as that there shall be no point, chink, or place in it that is not easily accessible, and thus to secure a speedy and thorough cleansing of it after each churning; and lastly, to effect a more expeditious production of the butter, with less labor to the operator, than can be effected with existing dashers, partly by the substitution of a rotary in lieu of a reciprocating up-and-down motion of the dasher, and partly by the novel construction and arrangement of the agitating-arms or vanes of the same.

But my invention will be more clearly and quickly understood by referring to the drawing, on which the part marked A represents the axis or spindle of my improvement, and that marked B, the removable block, in which a socket or seat is sunk, in the centre of its upper side, to receive the pointed lower extremity of the spindle A. This socket-block is secured in position at and to the bottom of the churn, by the agency of wooden screws *b*, or by equivalent wooden pins instead thereof. At right angles to each other, and to the axis of the spindle A, alternate agitating-arms or vanes C, which are perforated with a greater or less number of circular holes, *a*, are inserted through said spindle, one above another, as shown.

Rotary motion is imparted by means of a crank, I, or, if a very rapid revolution be deemed expedient, a system of cog-gearing may be readily applied to the spindle, above the top of the churn, to effect such object.

It will be perceived that a thorough agitation of the milk, and a consequent complete change of its condition, must necessarily result from the revolution of my dasher, because the arrangement of the arms or vanes C is such that not a particle of it can escape a positive contact with these arms, and that hence the effect, to wit, the coming of the butter, must be relatively very rapid or quick.

It will also be clearly discernible that the labor required to operate my improvement is far less than in those churns in which a reciprocating dasher is employed, whatever the construction of the same may be. After butter has been made in one churn, my dasher may be transferred to another, in a few seconds of time, by simply withdrawing the screws *b*, or the wooden pins that may be used instead of such screws.

I am aware that it is not new to revolve churn-dashers, and also that radiating arms have been employed in connection therewith. I do not, therefore, broadly claim such motion nor such arms; but, having fully described my invention,

What I do claim, and desire to secure by Letters Patent, is—

The combination of a revolving dasher, as herein described, consisting of the spindle A and arms C, provided with apertures or perforations *a*, in combination with the removable socket-block B, when provided with wooden screws *b*, or their equivalents, when each and all the connected parts are of wood, and are constructed, arranged, and operate substantially as and for the purposes herein set forth.

MARY E. J. MARR.

Witnesses:

A. HERO, Jr.,

G. CENAS.