

No. 618,339.

Patented Jan. 24, 1899.

M. J. EVANS.  
CHURN LID AND DASHER.

(Application filed Jan. 15, 1898.)

(No Model.)

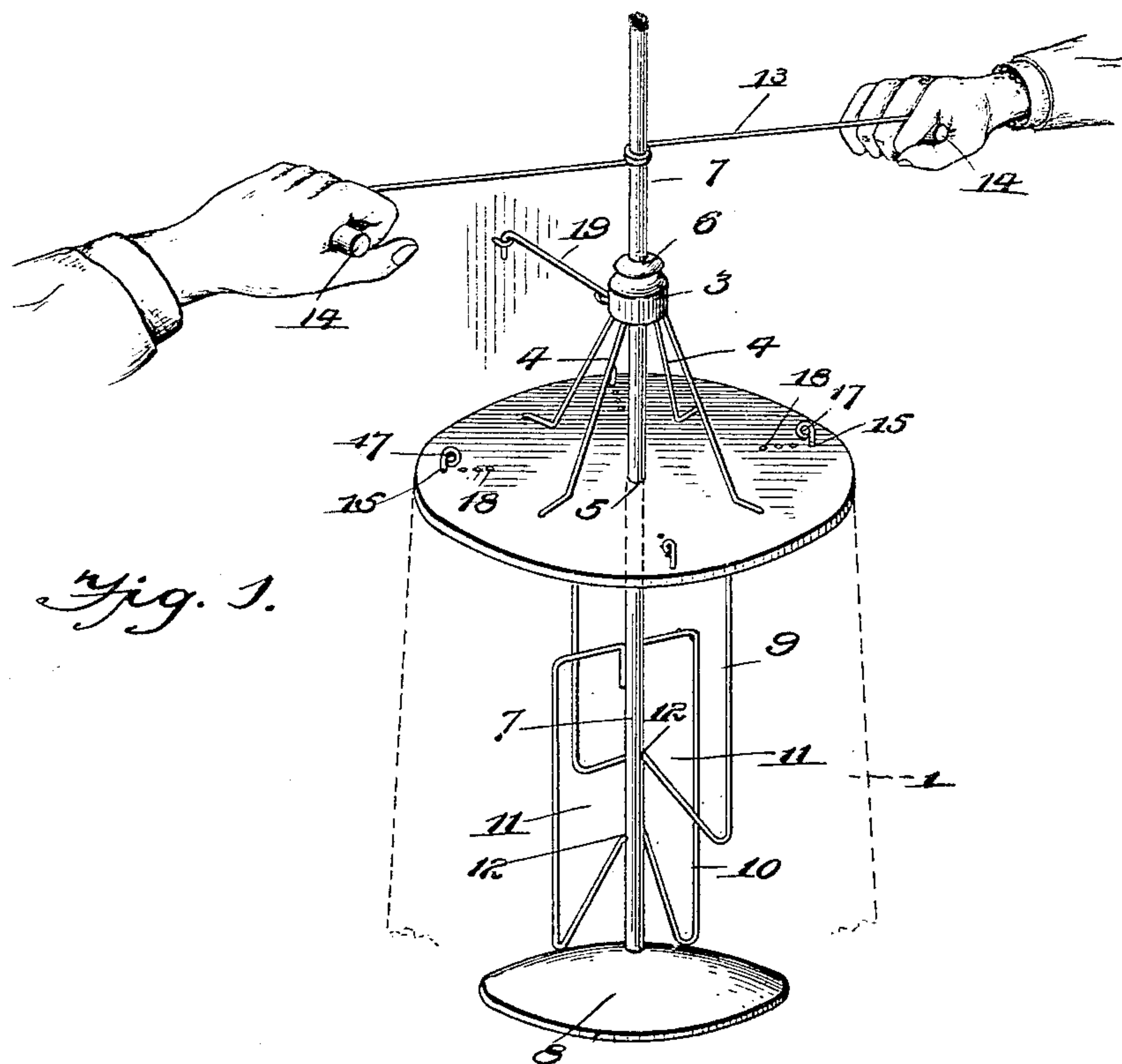


Fig. 1.

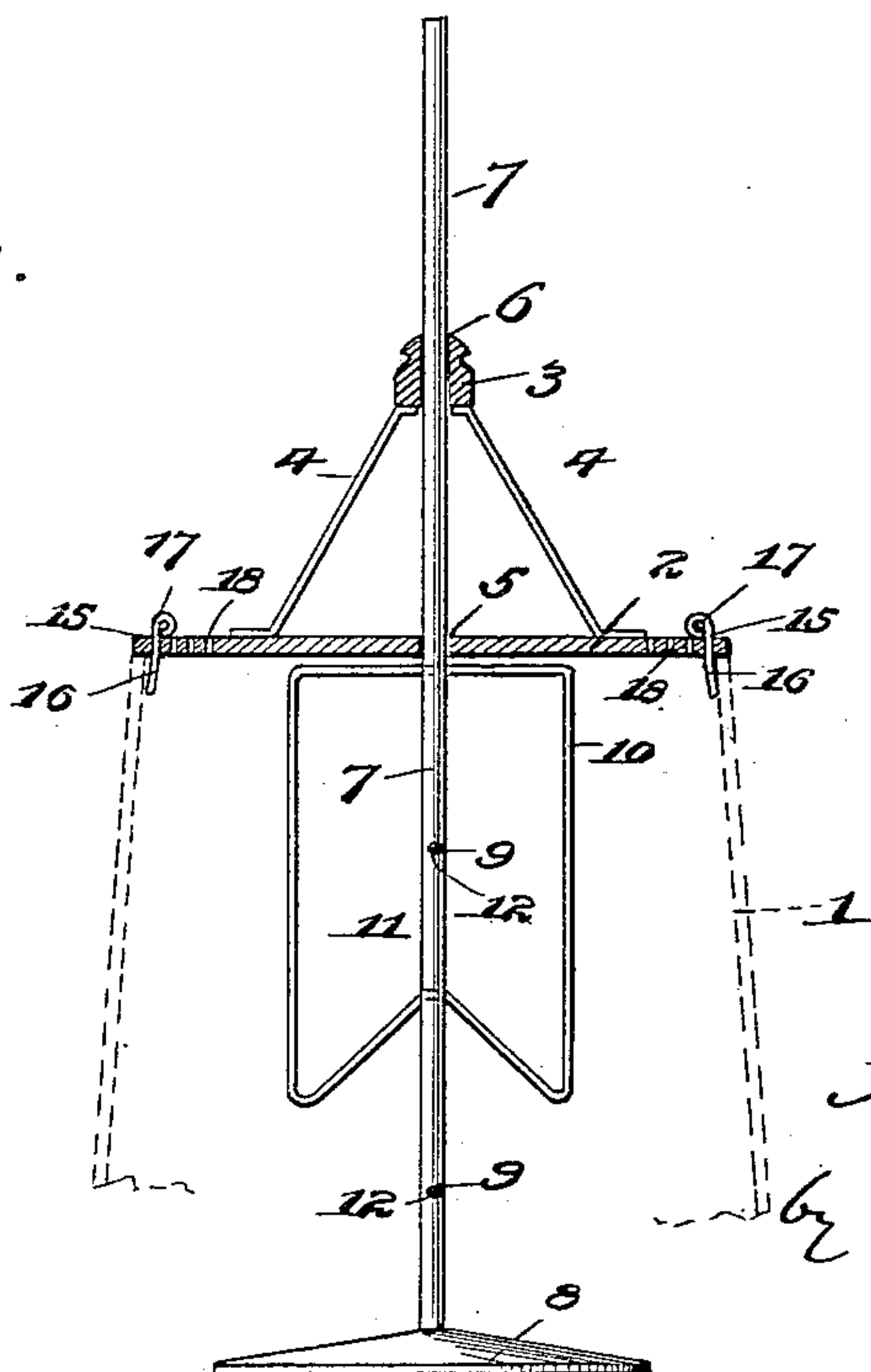


Fig. 2.

Witnesses  
C. E. Hunt,  
Harry L. Amel.

Inventor  
Martison J. Evans,  
by O. D. Stockbridge  
his Attorney.

# UNITED STATES PATENT OFFICE.

MATISON J. EVANS, OF SOLDIER, KENTUCKY.

## CHURN LID AND DASHER.

SPECIFICATION forming part of Letters Patent No. 618,339, dated January 24, 1899.

Application filed January 15, 1898. Serial No. 666,840. (No model.)

*To all whom it may concern:*

Be it known that I, MATISON J. EVANS, a citizen of the United States, residing at Soldier, in the county of Carter and State of Kentucky, have invented certain new and useful Improvements in Churn Lids and Dashers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a novel churn lid and dasher, my object being to produce a simple, durable, and efficient device of this character which may be applied to churns of varying sizes and which when so applied will greatly facilitate the operation of churning.

To these and other ends the invention consists in certain details of construction and arrangement of parts, as will hereinafter be made apparent.

Referring to the drawings, Figure 1 is a perspective view of the dasher and lid, the churn-body being illustrated in dotted lines. Fig. 2 is a vertical section of the same.

1 indicates a churn-body, and 2 my improved lid or cover, which may be of any desired size and shape, but it is preferably of the general configuration of the churns to which it is to be attached.

3 indicates a guide or bearing box supported above the center of the lid by a number of upwardly-converging standards 4, which are preferably constructed of stout wire or small metal rods having their opposite ends passed into the lid and box. The said lid and box are provided with coincident axial apertures 5 and 6, through which extends the dasher-rod 7, provided upon its lower extremity with a conical agitator 8, above which are arranged a number of skeleton agitators 9 and 10. These last-named agitators are arranged in diametrically-opposed pairs, which are disposed in different horizontal planes and at right angles. Each pair is formed from a single strand of wire bent into substantially rectangular form, with oppositely-extending loops 11, which are passed through apertures 12 in the dasher-rod.

Ordinarily the dasher is designed to be operated by hand to impart a violent reciprocatory and a more or less violent rotary move-

ment thereto, the conical agitator effectively agitating the liquid under the reciprocation and the agitators 9 and 10 being made effective by the rotary motion. If desired, however, an actuating-band 13 may be wound around the rod to cause its rotation by alternate pulls upon handles 14, secured to its opposite extremities.

Any suitable means for securing the lid to the churn-body may be provided, but I prefer to employ a series of catches 15, consisting of curved rods having pointed ends 16, depending below the lid and having handles 17 thereabove, in order that the points may be turned in to facilitate the insertion of the lid and may then be turned to cause the points to engage the sides of the churn for the purpose of securely fastening the lid in place. The catches are radially adjustable upon the lid by means of radial series of apertures 18, through any of which they may be passed to permit my device to be employed in connection with churns of various sizes.

If necessary, a hook 19, secured to the box, may be passed through a staple projecting from the wall or other fixed part for the purpose of steadying the churn.

While the present embodiment of my invention appears to be preferable, I do not, however, desire to limit myself to the structural details defined, but reserve the right to change, modify, and vary the invention without departing from the spirit and scope thereof.

What I claim is—

A churn-lid provided with several radial series of openings, in combination with longitudinally-curved and vertically-disposed catches adjustably mounted in said openings and provided with curved ends below the lid and handles above the lid, said catches being rotatably and removably mounted in said openings and arranged so that their lower extremities may be swung into and out of engagement with the churn-body, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

MATISON J. EVANS.

Witnesses:

J. W. CLUTTER,  
J. P. ZIMMERMAN.