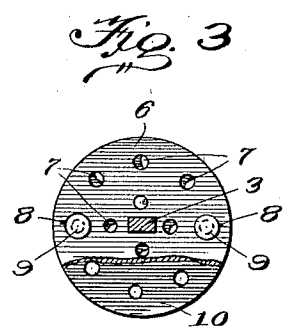
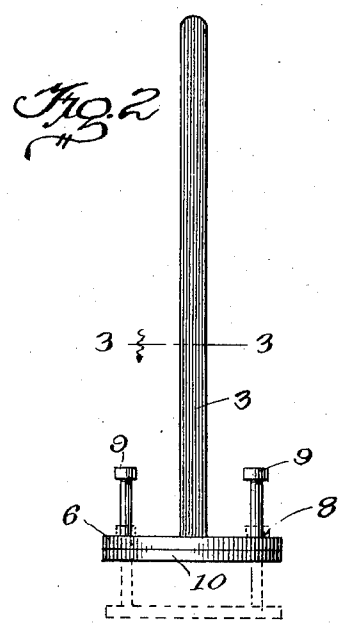
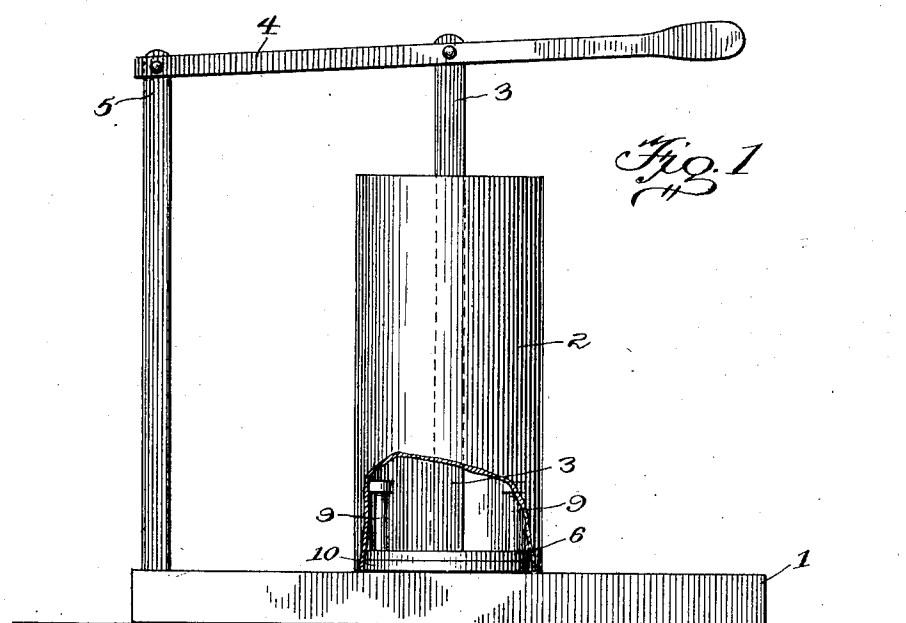


E. A. BIGGS.
CHURN AND OPERATING MECHANISM.
APPLICATION FILED JULY 23, 1910.

1,003,395.

Patented Sept. 12, 1911.



Witnesses
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EVERT A. BIGGS, OF ROCKY, OKLAHOMA.

CHURN AND OPERATING MECHANISM.

1,003,395.

Specification of Letters Patent. Patented Sept. 12, 1911.

Application filed July 23, 1910. Serial No. 573,495.

To all whom it may concern:

Be it known that I, EVERT A. BIGGS, a citizen of the United States, residing at Rocky, in the county of Washita and State of Oklahoma, have invented new and useful Improvements in Churns and Operating Mechanism Therefor, of which the following is a specification.

This invention relates to churns and more particularly to the construction of the dasher and to the operating mechanism therefor.

The object of the invention is the provision of a novel dasher which will cause a more complete agitation of the cream and a consequent rapid formation of the butter.

A further object of the invention is to provide a simple and efficient churn and dasher and a conveniently operated lever mechanism therefor.

Further objects of the invention will appear as the following specific description is read in connection with the accompanying drawing which forms a part of this application, and in which:

Figure 1 is a side elevation with parts broken away. Fig. 2 is a detail side elevation of the dasher showing in dotted lines the alternative position of the auxiliary dasher, and Fig. 3 is a horizontal section on the line 3—3 of Fig. 2, and with parts broken away.

Referring more particularly to the drawing, 1 represents a base board upon which the churn 2 is mounted. Mounted in the churn and projecting thereabove is a dasher rod 3 which is pivotally connected to a lever 4, in turn pivotally connected to a vertical standard 5 secured to and projecting upwardly from the base. The rod 3 has secured to its lower end a dasher 6 which is adapted to fit the interior of the churn and is provided with a plurality of apertures 7 and a pair of diametrically opposite holes 8 through which the connecting rods 9 of the auxiliary dasher 10 are adapted to pass.

The rods 9 are rigidly secured to the auxiliary dasher 10 and extend upwardly in parallel relation through the holes 8 and have their upper ends headed so as to prevent their removal. The auxiliary dasher is also provided with a plurality of apertures as shown in Fig. 3 and the apertures in one dasher are preferably vertically offset from those in the other. The auxiliary dasher reciprocates, the rods 9 running up and down in the holes 8 and the apertures in the respective dashers make the cream zigzag through said apertures and become thoroughly agitated. The operation of the dashers will be clearly understood from an inspection of the drawings without further description.

Having thus described the invention, what is claimed is—

In combination, a churn, a dasher rod disposed vertically in the churn, a flat circular dasher secured to the lower end of the rod and disposed horizontally in the churn, said dasher being provided with radially spaced openings of relatively small area, rods secured to the dasher and extending thereabove, a second dasher slidable on the rods and provided with radially spaced openings of relatively small area arranged out of alinement with the openings in the first dasher, whereby the fluid to be churned will describe a zigzag course through the openings in the dashers, the second dasher being adapted to lie flush on the first dasher so as to provide restricted paths for the fluid, when the dashers are approaching each other.

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

EVERT A. BIGGS.

Witnesses:

A. J. CRABTREE,
J. F. BOLDING.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."