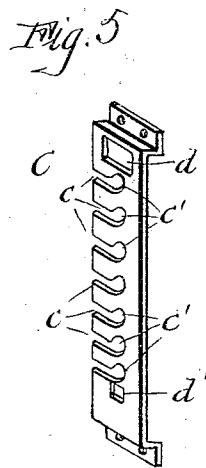
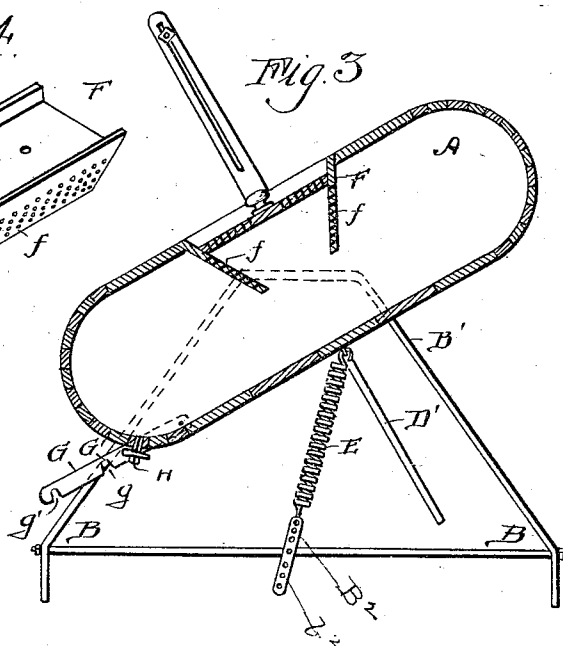
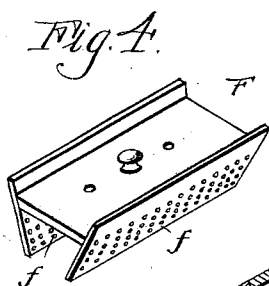
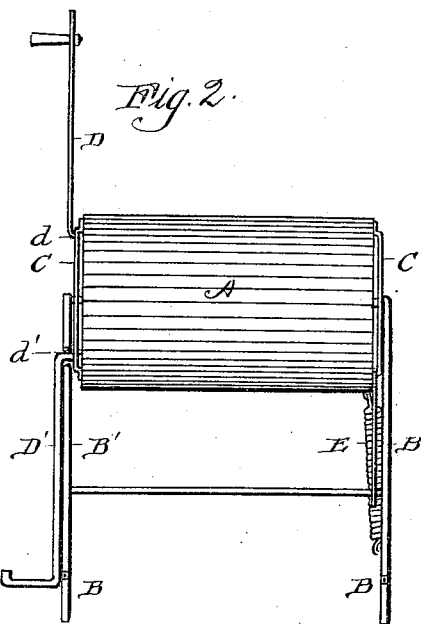
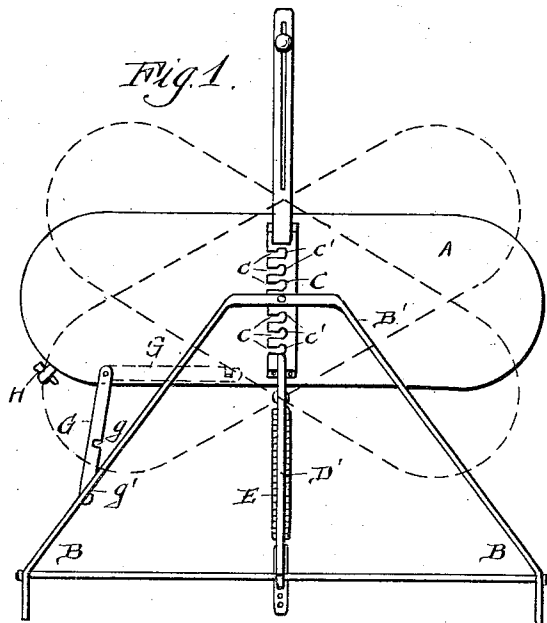


(No Model.)

J. E. GIBBS & J. R. SHIPMAN.
CHURN.

No. 543,861.

Patented Aug. 6, 1895.



WITNESSES

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JAMES E. GIBBS AND JAMES R. SHIPMAN, OF BRIDGEWATER, VIRGINIA.

CHURN.

SPECIFICATION forming part of Letters Patent No. 543,861, dated August 6, 1895.

Application filed March 14, 1895. Serial No. 541,736. (No model.)

To all whom it may concern:

Be it known that we, JAMES E. GIBBS and JAMES R. SHIPMAN, citizens of the United States, and residents of Bridgewater, in the county of Rockingham and State of Virginia, have invented certain new and useful Improvements in Churns; and we do 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a side elevation of the invention, different positions of churn being indicated in dotted lines. Fig. 2 is an end view of same. Fig. 3 is a central vertical section through invention, the churn-body being tilted. Fig. 4 is a perspective view of cover. Fig. 5 is a perspective view of the casting C.

The object of this invention is to provide a simple, efficient, and easily-operated churn; and the invention consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claim.

Referring to the accompanying drawings, the letter A designates the body or barrel of the churn, which is preferably of oblong form with rounded ends, as shown.

B designates the frame or support therefor, having parallel side arms B', between which the body sets, said arms having each at its upper portion an inwardly-projecting stud-journal, which is arranged to engage a central bearing on the churn-body to permit the latter free oscillation in a vertical plane. To provide these bearings we secure to each side of the churn-body a vertical plate or casting C, having in one of its vertical edges a series of horizontal slots c, which at their inner ends terminate in the approximately-circular bearing portions c'. Each end of said plate or casting has a perforated attachment portion whereby it is secured to the churn-body, and the intermediate portion is offset outwardly away from the churn-body to give room for the journal-studs. At the upper end portion of the plate or casting, just below the attachment-flange, is a slot d, by means of which an

operating hand-lever D may be detachably connected with said body. The lower portion of the plate or casting has a similar slot d' for the connection of a foot-lever D'. Either the foot or the hand lever may be attached or detached at pleasure to either side of the churn-body.

E designates a return or counterbalance spring, one end of which is attached to the bottom of the churn-body and the other to the arm B², which is hung on a pin b² of the frame and can be adjusted vertically to change the tension of the spring.

F designates the lid or cover for the body. Said lid or cover is formed at its front and rear edges with depending converging flanges f, which extend down into the body for a considerable distance and act as "brakes" for the cream during the operation of churning. These flanges are preferably perforated, as shown.

G designates a locking-lever, which is for the purpose of securing the churn-body in stationary position. This lever is pivoted to the churn-body and has therein the slots or notches g g', arranged to engage an arm or brace G' of the support. The lower notch g' holds the body in horizontal position for working the butter in the churn, while the upper notch g holds it in inclined position to allow buttermilk or other liquid to run out at the draw-off cock H.

It will be observed that the manner in which the churn-body is hung permits it a considerable range of adjustment. When it is desired to churn rapidly the churn is raised to the extent of one or more of the bearing-slots, which gives a greater concussion or agitation to the cream, resulting in a quicker separation of the butter. When the body is hung in the lower bearings more time is required; but this is compensated for by a better grade of butter.

The churn-body should not be filled more than half-full. It may be rocked either by the hand or foot lever, or by both, and owing to the spring E the operation is rendered very easy, but little power being required.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The herein described churn, comprising the

rocking body, having the plates or castings
C, one secured to each side thereof, and hav-
ing each a series of open bearing slots at dif-
ferent heights, a support having side arms
5 between which the body sets, said arms hav-
ing studs or journals adapted to engage said
slots, hand and foot levers detachably con-
nected to said plates or castings, a spring con-
nected to said body portion and to the sup-
10 port, a lock for holding said body stationary

when desired, and a cover arranged to act as
a cream brake, substantially as specified.

In testimony whereof we affix our signa-
tures in presence of two witnesses.

JAMES E. GIBBS.

JAMES R. SHIPMAN.

Witnesses:

S. D. WINE,

J. N. RINKER.