(No Model.)

C. F. CHAMBERLAIN.

CHURN.

No. 379,447. Patented Mar. 13, 1888.

Fig. 1.

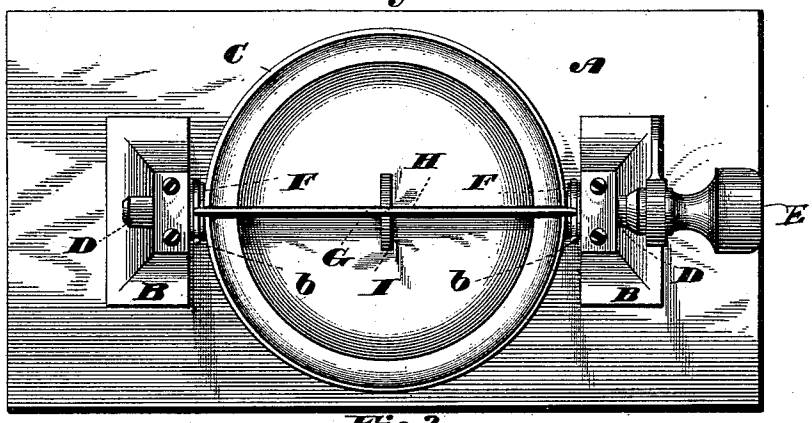


Fig. 2.

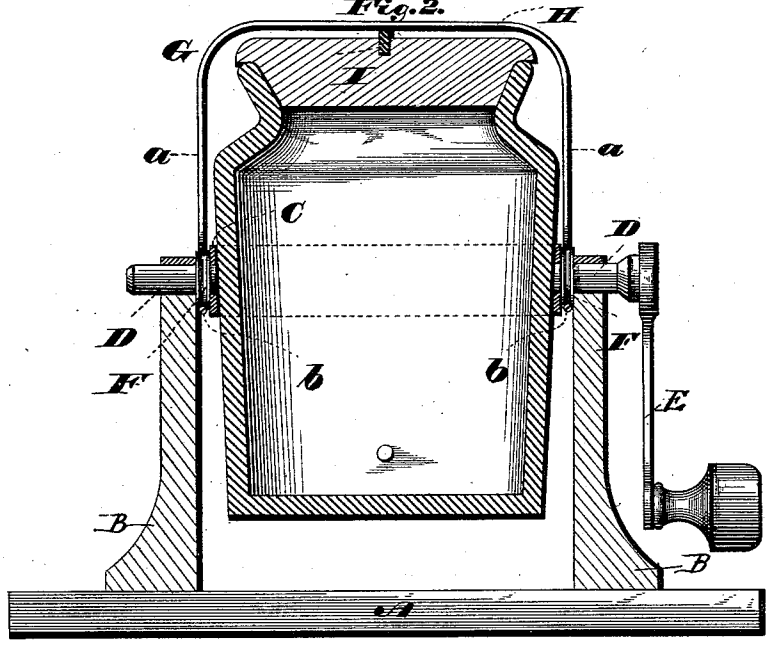


Fig. 3.

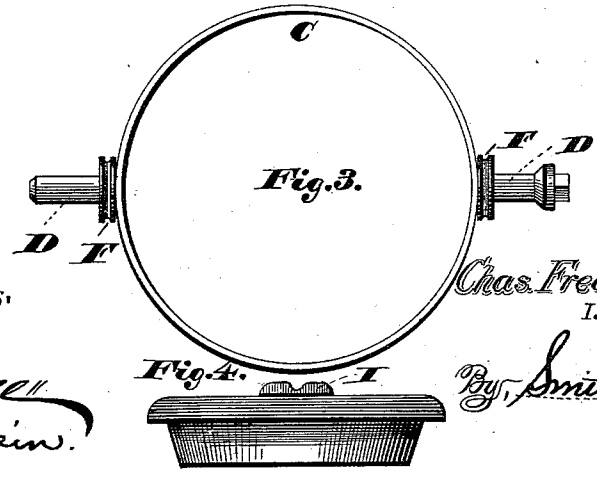


Fig. 4.

WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES FREDRICK CHAMBERLAIN, OF GOSHEN, INDIANA.

CHURN.

SPECIFICATION forming part of Letters Patent No. 379,447, dated March 13, 1888.

Application filed November 3, 1887. Serial No. 254,144. (No model.)

To all whom it may concern:

Be it known that I, CHARLES FREDRICK CHAMBERLAIN, a citizen of the United States, residing at Goshen, in the county of Elkhart and State of Indiana, have invented certain new and useful Improvements in Churns; and I 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.

This invention relates to improvements in working churn bodies, and the improvements will be fully understood from the following description and claim, when taken in connection with the annexed drawings, in which—

Figure 1 is a plan view of my improved churn. Fig. 2 is a vertical central sectional view of the same. Fig. 3 is a plan view of the band which receives the churn-body, the same being removed from its bearings; and Fig. 4 is a view of the cover removed.

Referring by letter to the said drawings, A indicates a base which is sufficiently broad to firmly support the churn and its operating devices. On this base, at diametrical points, I arrange two uprights or standards, B B, which are designed to support the journals of the hoop or ring C, into which the churn-body is placed and secured. This hoop or ring is of metal and flares upwardly, as shown, so that when a tapering cylindrical churn-body has been placed therein it will be supported from falling through and sustained firmly while in a vertical position. This ring is provided on its outer side at diametrically-opposite points with fixed journals D, which have their bearings in the upper ends of the standards B, and one of these journals has a crank, E, fixed thereto for turning the same. These journals D have formed on them between the ring and standards a grooved collar, F, to receive a fastening device for the cover, as will be presently explained.

The churn-body is preferably made of stone, glass, or earthenware, of annular form and enlarged in the direction of its mouth, so that while its lower portion may be placed in the ring or band its upper portion will be engaged thereby and the whole prevented from going through.

When the body has been placed in the band, it will be seen that it will by its gravity present the mouth of the churn in a proper position to fill it or remove its contents.

G indicates the fastening device, which consists of a single piece of spring-wire bent to form the two vertical branches *a*, having hooks *b* at their ends to enter the grooves in the fixed collars of the journals on the band, and a cross-piece, H, which connects the said vertical branches and is designed to engage a notched lug, I, on the upper side of the cover of the churn. Thus it will be seen that this wire will swing from opposite ends upon the journals of the band, and by simply turning it up over the cover and springing it into the notch in the lug thereof the said cover may be firmly secured to the churn.

In operation it is only necessary to turn the crank, when the entire body will be rotated in a vertical plane and the contents thoroughly agitated.

A churn of this character is very effective in its operation. It can be cheaply manufactured, and its parts easily kept clean.

Having described my invention, what I claim is—

The combination, with the base and standards, of the flaring band having fixed journals at diametrical points and grooved integral collars thereon, the tapering body placed in the said band, the cover having a notched lug, the wire fastening having the lower ends of its vertical branches hooked to engage the grooves of the collars on the journals and its cross portion adapted to engage the notch of the cover-lug, and a crank-handle secured to one of the said journals, substantially as specified.

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

CHAS. FREDRICK CHAMBERLAIN.

Witnesses:

DANIEL ZOOK,

CHAS. C. HERR.