

B. EASON.
Rotary Churns.

No. 136,226.

Patented Feb. 25, 1873.

Figure 1:

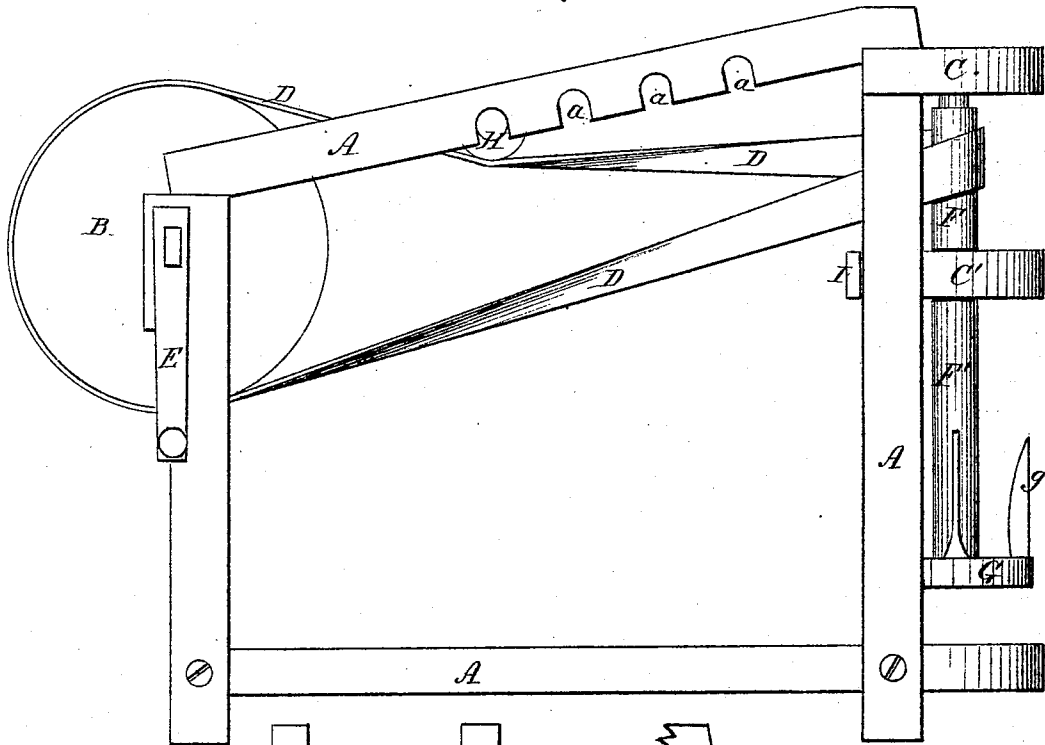


Fig: 2:

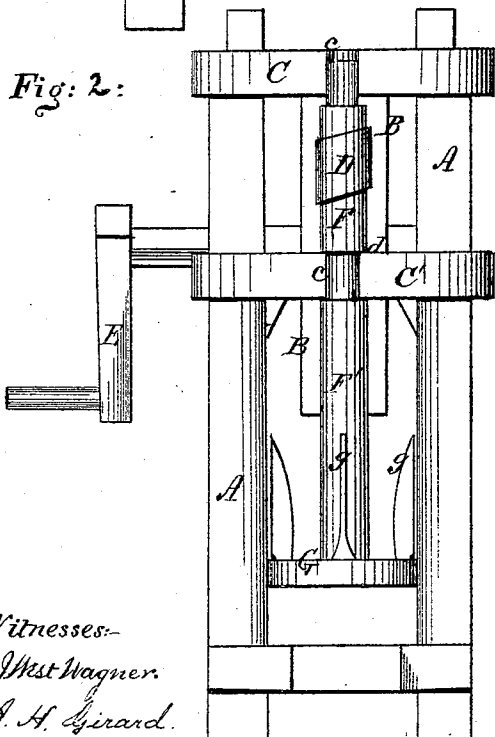
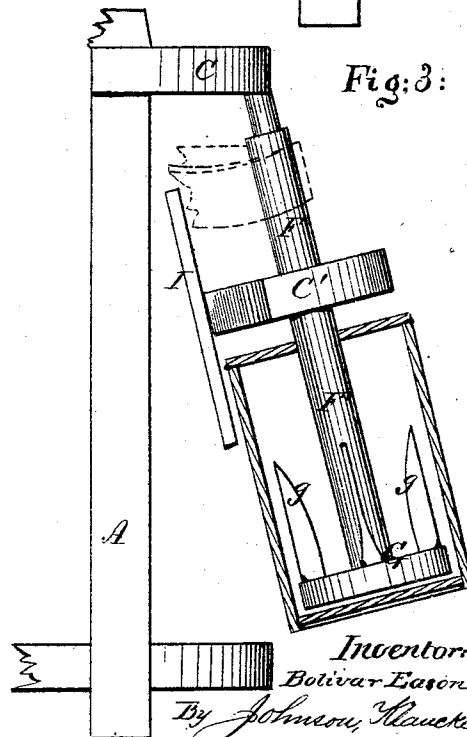


Fig: 3:



Witnesses:-
West Wagner.
A. H. Girard.

Inventor:
Bolivar Eason
By Johnson, Hawke & Co.
his Attorneys.

UNITED STATES PATENT OFFICE.

BOLIVAR EASON, OF EASONVILLE, ALABAMA.

IMPROVEMENT IN ROTARY CHURNS.

Specification forming part of Letters Patent No. 126,226, dated February 25, 1873.

To all whom it may concern:

Be it known that I, BOLIVAR EASON, of Easonville, in the county of Saint Clair and State of Alabama, have invented certain new and useful Improvements in Churning-Machines, of which the following is a specification:

The object of my invention is to produce a simple, cheap, and convenient device, which may be applied to suitable vessels containing milk, and which will effect the churning of butter without having to construct the churn and its operating parts in one machine; and the improvement which I have made consists of a churning-machine having a removable bearing-bracket for the churn-dasher stem, arranged to be clamped and unclamped between and upon the front standards to allow the removal and replacement of the churn-dasher and the churning-vessel from and upon the frame for use in connection with a band-tightener formed by the upper inclined beams, to hold the tightening-roller in place, thereby producing a very cheap machine and convenient means for securing and removing the dasher and the churn.

In the accompanying drawing, Figure 1 represents a side elevation of my improved churning-machine. Fig. 2 represents a front view of the same. Fig. 3 represents a view, showing the manner of detaching the dasher-stem from the frame for the purpose of inserting it into or removing it from the vessel.

The frame A consists of four uprights from a platform, two at one end supporting the axle of the driving-pulley B, and two at the other end acting as supports for the suspended dasher-stem. One of these supports, C, is fixed to the top of the posts, and the other, C', is arranged horizontally between the posts and is removable, for a purpose which will be presently described. A band, D, passes around the pulley B, which pulley is provided with a suitable crank-handle, E, and this band embraces a pulley, F, on the stem F' of the dasher G. The top rails of the frame A incline upward from the driving-pulley, and are provided on their under sides with notches *a a*, at suitable distances apart, for the reception of the journals of a roller, H, which is moved in the direction of the driving-pulley

when it is desired to tighten the band, and vice versa when it is desired to loosen it. Both dasher-stem blocks C and C' are provided with slots or openings *c c*, into which the spindle F is inserted and removed laterally, and which act as guides to said spindle, which is supported upon the lower block by a shoulder, *d*, which suspends it at the front of the frame. The lower block C' is made removable for the purpose of removing the stem to insert the dasher in the vessel, and is held in place by a button, I, locking with the frame. The dasher G is provided with peculiar-shaped blades *g*, as shown in the drawing, located directly around the lower end of the dasher-stem, by means of which the churning is effected.

By turning the crank slowly the machine will gather the butter after the churning is done.

When it is desired to commence churning the removable spindle-block C' is unlocked by the button and drawn out horizontally, and the lower dasher-end inserted into the suitable vessel containing the milk, when the block with dasher is again adjusted, the band tightened, and churning is commenced. The milk-tub is supported upon the front end of the platform, and is slid off and on with the dasher, the removable block C' serving as a handle by which to remove and insert the suspended dasher, in order to get it in and out of the pail, which latter is simply slid off and on the front end of the platform, the driving-band being first removed from the driving-pulley to allow the dasher to be drawn out from its supporting-blocks.

The dasher, being suspended by its collar directly upon the removable support C', leaves the dasher free to be applied to separate churn-tubs; and therefore no bearing is required for the dasher either upon its top or bottom, but the dasher and tub are entirely separate from each other.

This arrangement is found to be very convenient, as it leaves the churn-vessel to be used for other purposes, if necessary, and to be more easily kept clean.

The dasher-stem may be suspended from the top bearing C.

Having described my invention, I claim—

The churning-machine having the removable dasher-stem bracket C', arranged to be clamped and unclamped by the button between the frame-posts, and the upper inclined beams and tension-roller arranged to tighten and loosen the holding-band, as shown and described, and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of the undersigned witnesses this 20th day of August, A. D. 1872.
BOLIVAR EASON.

Witnesses:

S. P. McCLEBEN,
GEO. W. STONE.