(No Model.)

S. E. MORGAN.

CHURN.

No. 488,573. Patented Dec. 27, 1892.

Fig. 1.

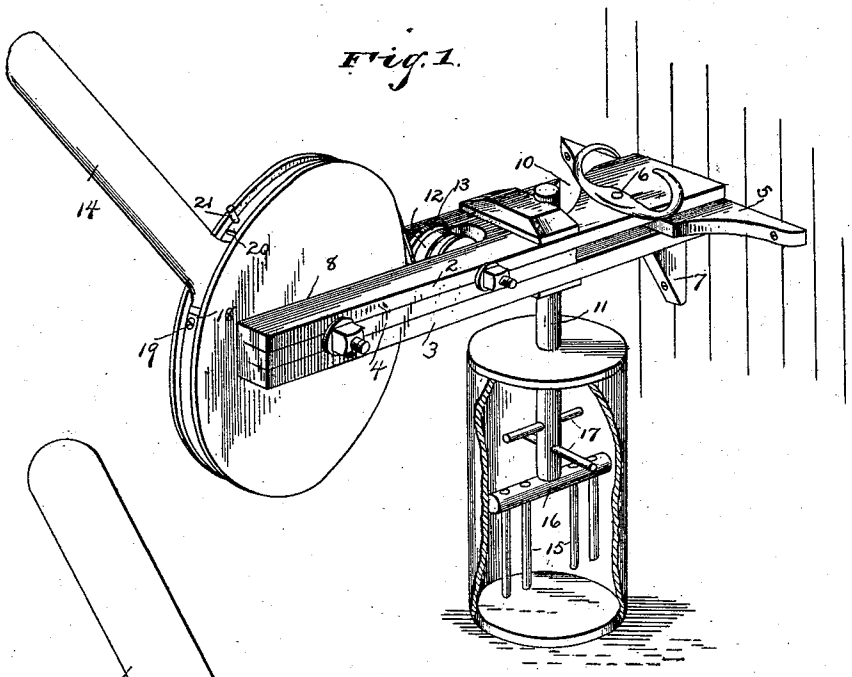
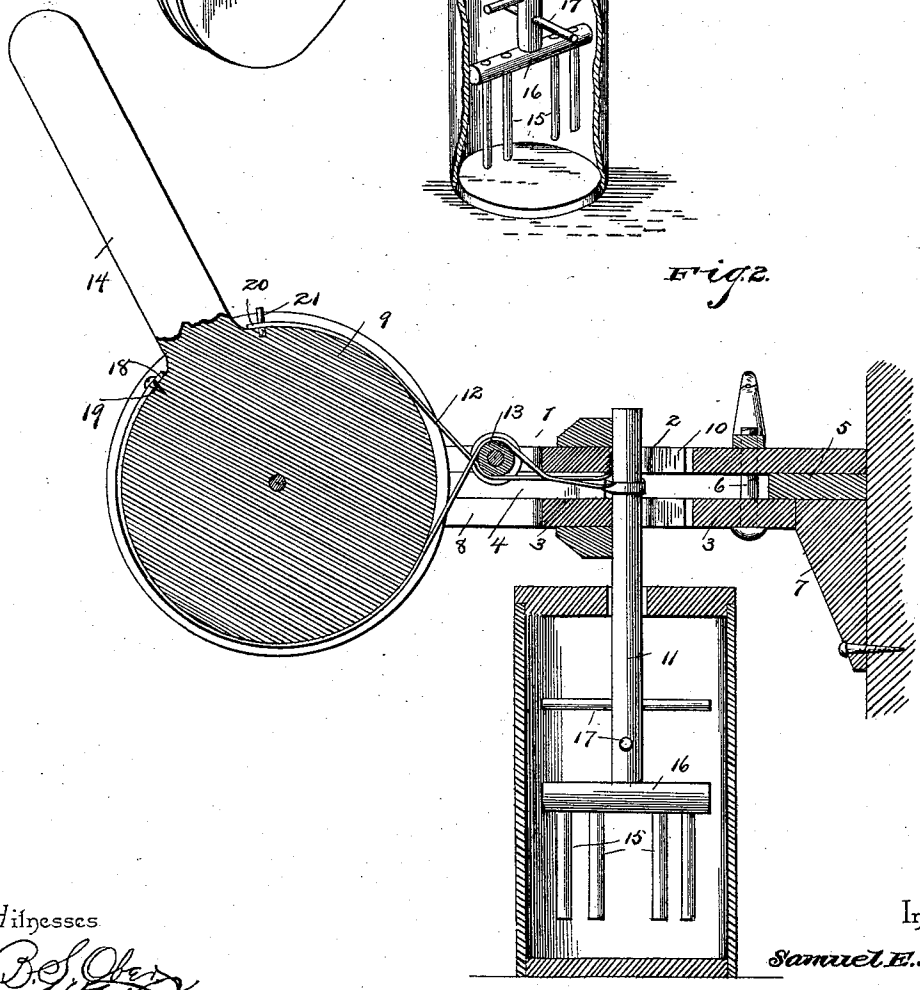


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

SAMUEL E. MORGAN, OF JASPER, ALABAMA.

CHURN.

SPECIFICATION forming part of Letters Patent No. 488,573, dated December 27, 1892.

Application filed January 28, 1892. Serial No. 419,615. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL E. MORGAN, a citizen of the United States, residing at Jasper, in the county of Walker and State of Alabama, have invented a new and useful Improvement in Churns, of which the following is a specification.

The invention relates to improvements in churns.

The object of the present invention is to simplify and improve the construction of churns and to provide one by which butter may be quickly produced.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claim hereto appended.

In the drawings—Figure 1 is a perspective view of a churn embodying the invention. Fig. 2 is a longitudinal sectional view.

Like numerals of reference indicate corresponding parts in both the figures of the drawings.

1 designates a frame composed of horizontal bars 2 and 3 which are spaced by longitudinal pieces 4 interposed between the bars 2 and 3 and arranged at the outer end thereof. The inner ends of the bars 2 and 3 are adapted to clamp bracket 5, and are held in engagement with the horizontal shelf of the same by a clamping bolt 6, and the lower bar is bifurcated at its inner end to fit the vertical support 7 of the bracket. The frame is provided at its outer end with an opening 8 in which is arranged a drive-wheel 9, and is provided intermediate its ends with bearing recesses 10, in which is arranged a vertical dasher-shaft 11, and the latter is connected with and receives motion from the drive-wheel 9, by a band 12 which has its ends secured to the periphery of the drive wheel, and which passes over a guide-pulley 13 and which is coiled around the dasher-shaft 11, whereby when the drive-wheel is reversely rotated the dasher-shaft will receive a similar motion. The drive wheel 9 is provided in its periphery with a groove to receive the band 12, which by its tension retains the dasher-shaft in the open bearing recesses without additional securement. An oscillating handle-bar 14 is secured to the drive-wheel whereby the latter is reversely rotated.

The lower end of the dasher-shaft carries a dasher, which is composed of vertical rods or blades 15 which are secured to a horizontal cross-piece 16 and horizontally disposed rods 17 secured in perforations of the dasher-shaft.

The inner end of the frame may be clamped to the bracket as illustrated in the accompanying drawings, or, it may be attached in a similar manner to the edge of a table as will be readily seen.

The end 18 of the band is secured to a pin 19 on the periphery of the drive wheel, and the other end 20 of the band is detachably secured to a pin 21, whereby the band may be detached to permit the removal of the dasher shaft.

What I claim is—

In a churn, the combination of a frame composed of upper and lower horizontal bars and longitudinal pieces 4 interposed between the front portions of the bars and spacing the latter, said frame being provided at one of its sides with bearing recesses 10 and being extended rearward beyond the recesses to form a clamp, the lower bar having a slot extending inward from the rear end of the frame, the bracket having a horizontal shelf fitting between the upper and lower bars and provided with a vertical brace arranged in the slot of the lower bar, a clamping bolt passing through the extended portion of the horizontal bars, a dasher shaft journaled in said bearing recesses, a driving wheel mounted at the front of the frame, and a band wound around the dasher shaft and secured to the driving wheel, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

SAMUEL E. MORGAN.

Witnesses:

C. C. SMITH,

J. W. CASELDRIN.