

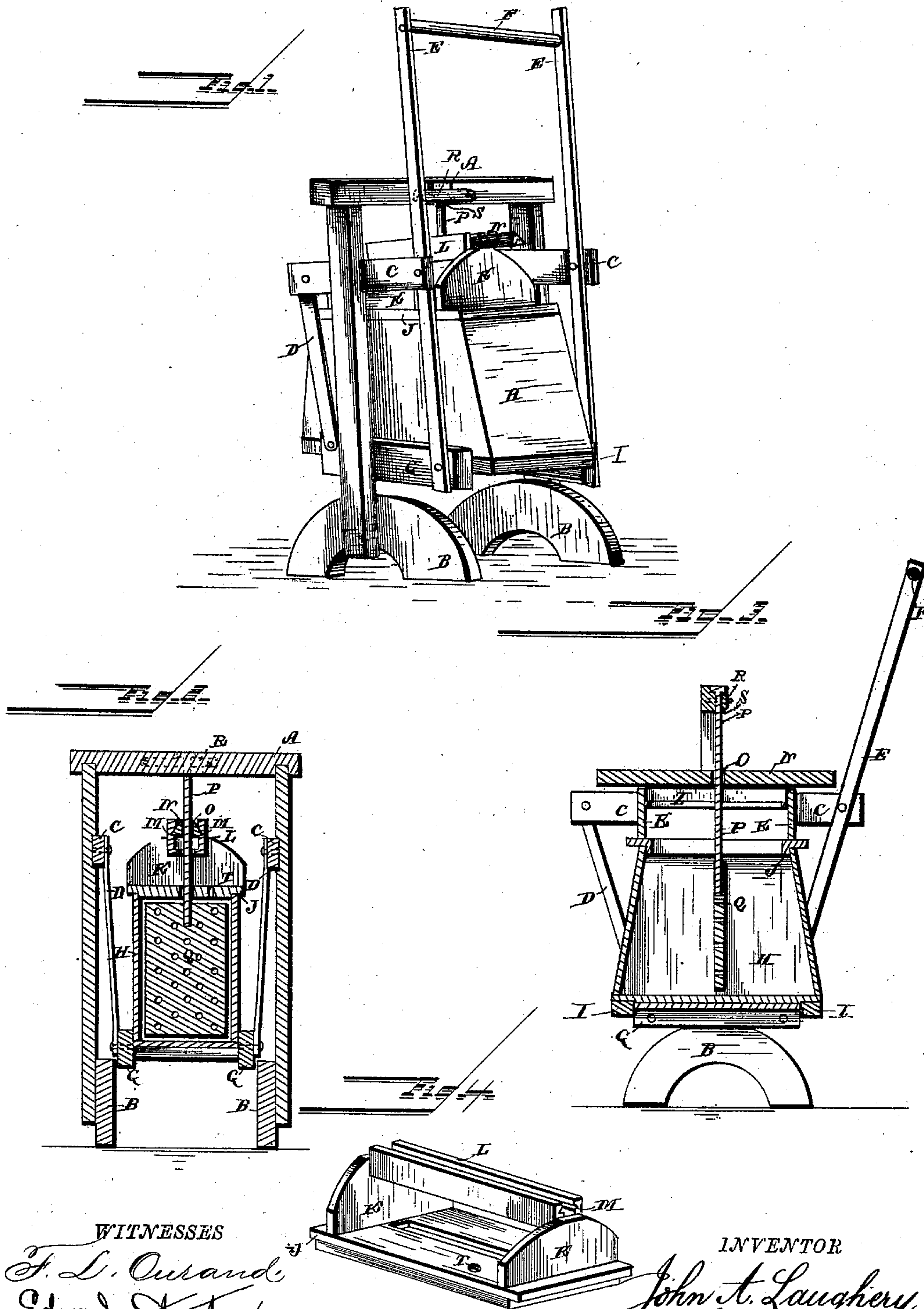
(No Model.)

J. A. LAUGHERY.

CHURN.

No. 357,013.

Patented Feb. 1, 1887.



WITNESSES

F. L. Ourand
Edward Stanton

INVENTOR

John A. Laughery
By *Louis Baggett & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

JOHN ASHBURY LAUGHERY, OF DENISON, MISSOURI.

CHURN.

SPECIFICATION forming part of Letters Patent No. 357,013, dated February 1, 1887.

Application filed July 17, 1886. Serial No. 203,260. (No model.)

To all whom it may concern:

Be it known that I, JOHN ASHBURY LAUGHERY, a citizen of the United States, and a resident of Denison, in the county of Barton and State of Missouri, have invented certain new and useful Improvements in Churns; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved churn. Fig. 2 is a vertical sectional view of the same, taken transversely through the stationary dasher. Fig. 3 is a similar view on a plane at right angles to the section, Fig. 2; and Fig. 4 is a perspective detail view of the cover and its slide.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to that class of churns in which a box or churn-body is suspended in a swinging frame, and in which a stationary dasher is suspended within the box or body; and it consists in the improved construction and combination of parts of such a churn, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates a rectangular upright frame supported upon a suitable base, B, and the side pieces of this frame are provided with horizontal cross-pieces C C, from the ends of which are suspended a pair of pivoted arms, D D, while a pair of handles, E E, connected at their upper ends by a handle-bar, F, are pivoted at or near their middles upon the other ends of the cross-pieces, the portions of the handles below their pivotal points being of the same length as the pivoted arms. A swinging platform, G, is supported from these arms and handles, having the lower ends of the same pivoted to its sides near the corners, and the box or body H of the churn rests upon this platform.

The box has outwardly-inclined end pieces, and the bottom of the box is provided with transverse cleats I I at its ends, which cleats bear against the ends of the platform, retaining the box upon the platform, and the top of the box is covered by a cover, J. This cover

is formed with two frame-pieces, K K, or braces, which support a long box, L, secured over a longitudinal slot in the cover, and the upper open end of this long box is provided with grooved ways M M, or guides, in which a plate, N, slides. This plate or slide is formed with a perforation, O, at its middle, and the staff P of the dasher Q fits in this aperture or perforation, the upper end of the staff being secured by means of a pivoted latch-bar, R, in a recess, S, in one side of the top cross piece of the frame.

The dasher is perforated, and is of nearly the same dimensions as the cross-section of the interior of the box, nearly filling the space between the sides and top and bottom.

The slide in the cover is longer than the box and slot, so that the slide may be slid to both sides, bringing the aperture in it to both ends of the slot and box and still allowing the slot and box to be covered.

When the box has been filled with cream, it is placed upon the swinging platform, and the cover is placed upon the box, with the dasher-staff projecting through the aperture of the slide, which is in position in its ways. The upper end of the dasher-staff is thereupon secured by its latch, and the swinging platform and the box may now be reciprocated, causing the cream contained within the box to be forced through the perforations of the dasher, and thus breaking the butter-globules, the passage through the perforations, together with the swinging motion of the body, which causes the cream to swash or wave in the box, causing a rapid breaking of the globules and consequent formation of the butter.

The cover is preferably provided with a suitable aperture, T, through which a thermometer may be inserted, and through which the condition of the cream and its temperature may be observed. The inclined ends of the box allow the swinging box and platform to be so reciprocated that the dasher will reach to both ends of the box, and the slide being sufficiently long will cover the slot and open side of the box upon the cover when the box and platform are at both extremities of their stroke.

The churn is very simple of construction, and may consequently be made of very strong material, causing it to be durable and not liable to get out of order, and as all parts of the churn

which come in contact with the cream may be made of wood there is no danger of tainting the cream or the butter with any metallic tastes.

Having thus described my invention, I claim
5 and desire to secure by Letters Patent of the United States—

In a churn, the combination of a rectangular upright frame having cross-bars near the upper ends of the side pieces, a pair of arms
10 pivoted at the ends of the cross-bars, a pair of handles fulcrumed upon the ends of the cross-pieces and connected at the upper ends by a handle-bar, a platform suspended from the lower ends of the arms and the handles, a
15 churn-box upon the platform, a cover upon the box having a longitudinal slot provided with a box at its edges having grooved ways

in the sides of its open top, a slide in the grooved ways having a perforation at its middle and covering the slot and extending beyond the 20 ends of the same, and a perforated dasher within the box having its staff projecting through the aperture in the slide and having its upper end secured in the top piece of the frame, as and for the purpose shown and set 25 forth.

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

JOHN ASHBURY LAUGHERY.

Witnesses:

OLIVER MCGARVEY,
ALVIN H. CRABB.