(No Model.)

M. V. ENSLEY.

CHURN.

No. 368,708. Patented Aug. 23, 1887.

Fig. 1.

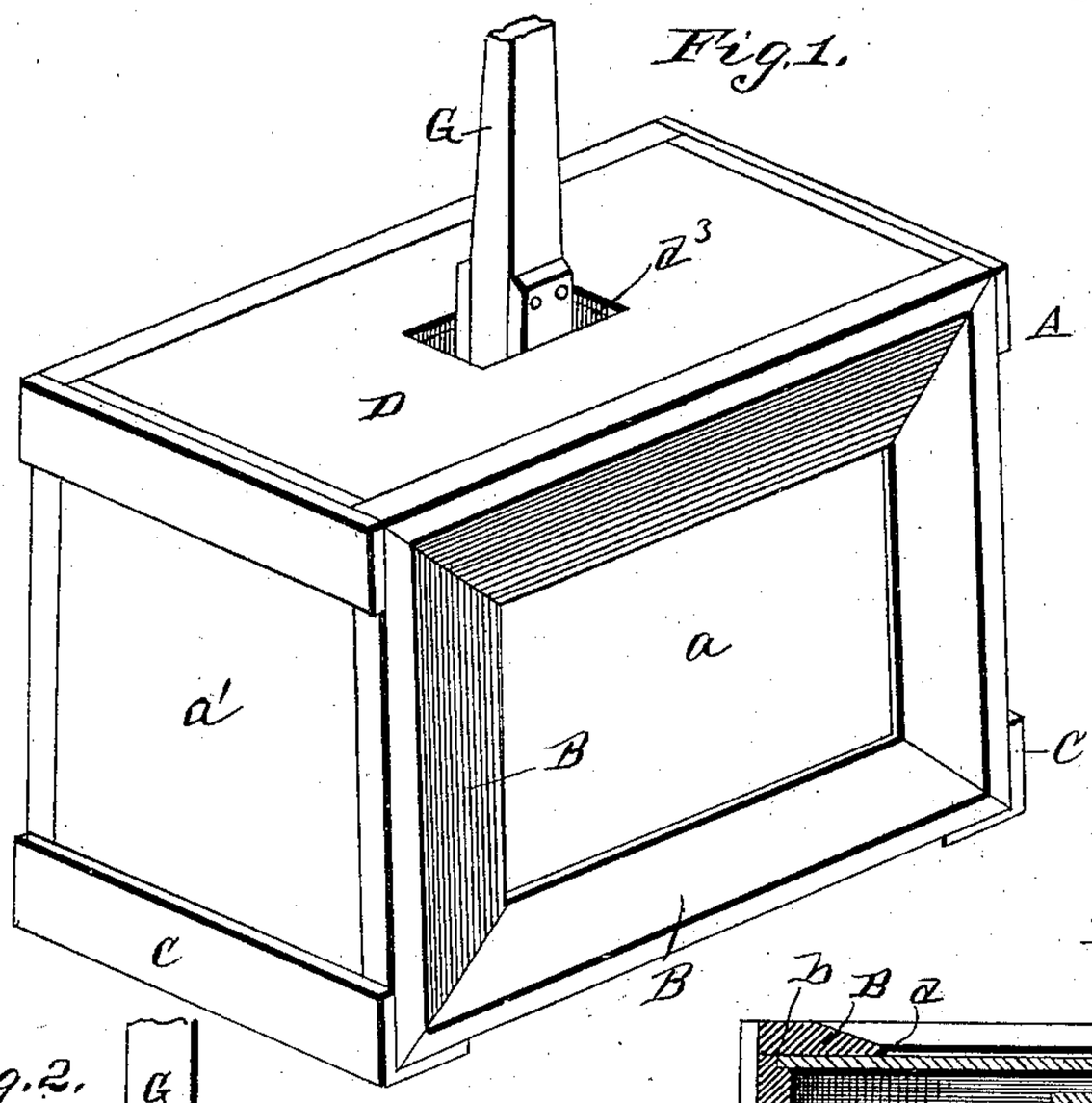


Fig. 2.

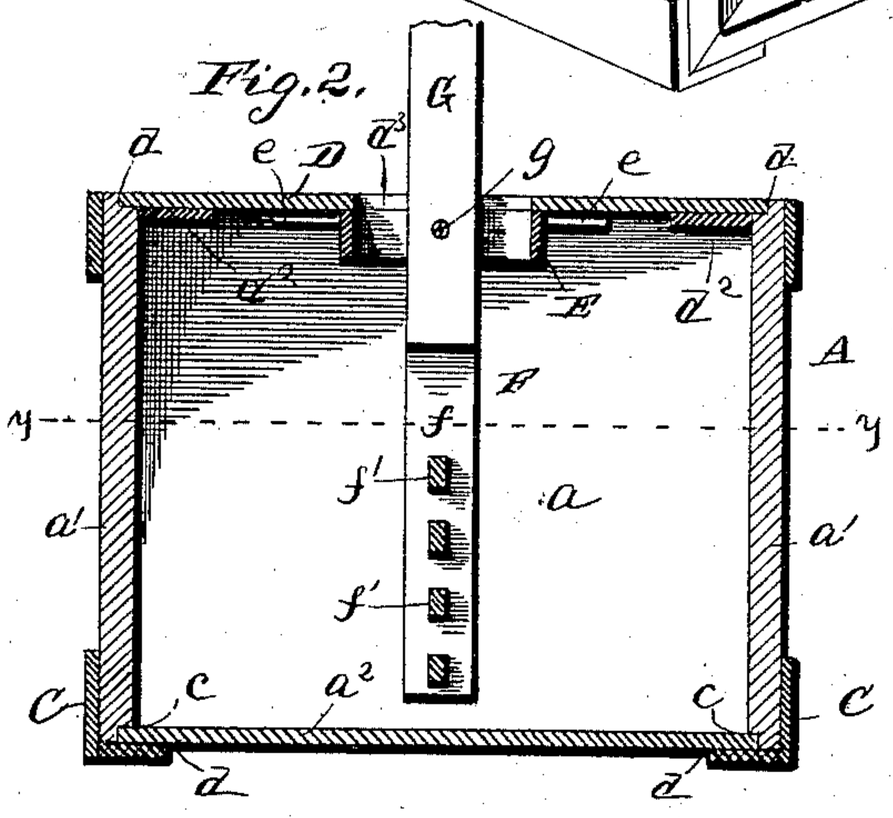


Fig. 3.

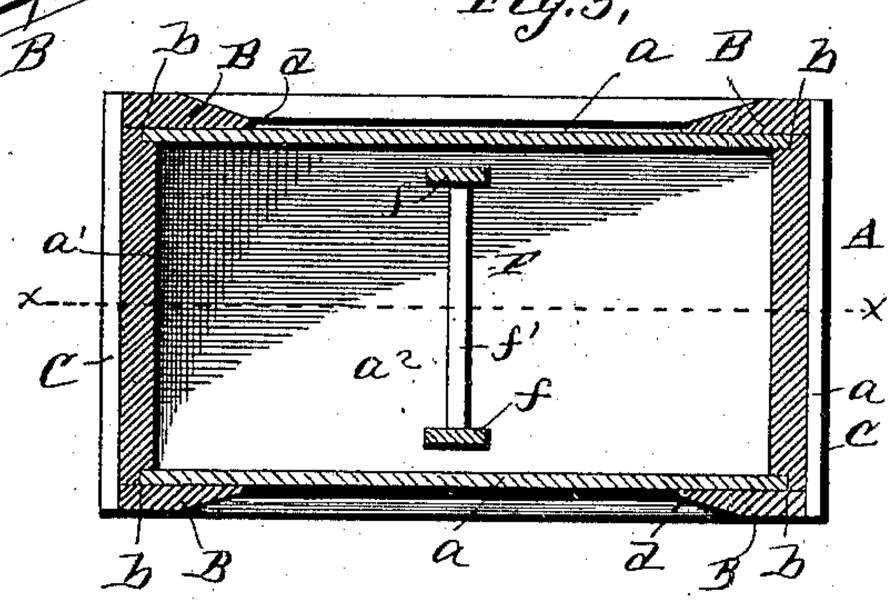


Fig. 5.

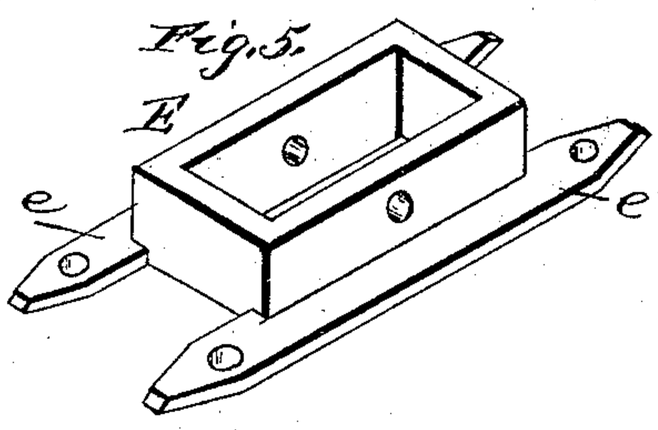
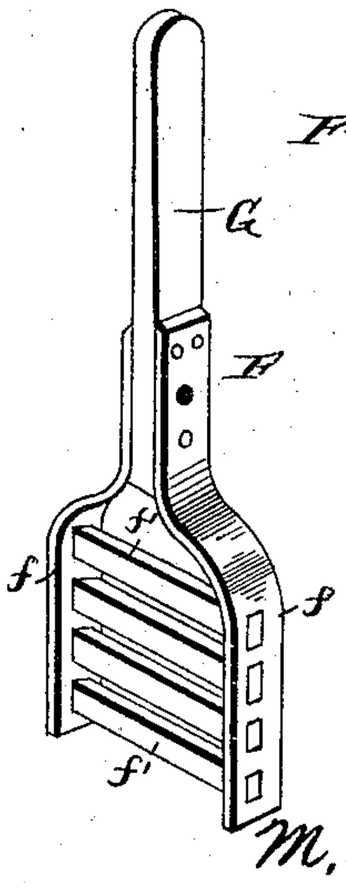


Fig. 4.



Witnesses

Chas. L. Taylor,

E. G. Siggers

Inventor

M. V. Ensley

By his Attorneys

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

MARTIN VAN ENSLEY, OF McMINNVILLE, OREGON.

CHURN.

SPECIFICATION forming part of Letters Patent No. 368,708, dated August 23, 1887.

Application filed November 6, 1886. Serial No. 218,163. (No model.)

To all whom it may concern:

Be it known that I, MARTIN VAN ENSLEY, a citizen of the United States, residing at McMinnville, in the county of Yam Hill and State of Oregon, have invented a new and useful Improvement in Churns, of which the following is a specification.

My invention relates to improvements in churns; and it consists in the peculiar construction and arrangement of the various parts for service, substantially as hereinafter fully described, and particularly pointed out in the claims.

The object of my invention is to provide a churn with a receptacle the walls or sides and bottom of which shall be hermetically sealed and secured together to prevent the possibility of leaking, and which shall present a neat and attractive appearance.

A further object of my invention is to provide improved means for effectually preventing the escape and waste of the contents of the receptacle through the opening therein through which the operating handle or lever of the dasher passes, and to provide an improved churn which shall possess superior advantages over others which have preceded it in points of simplicity and strength of construction, efficiency, rapidity, and ease of operation, and cheapness of manufacture.

In the drawings hereto annexed, which illustrate a churn embodying my improvements, Figure 1 is a perspective view. Fig. 2 is a longitudinal sectional view on the line *x x* of Fig. 3, and Fig. 3 is a horizontal sectional view on the line *y y* of Fig. 2. Fig. 4 is a detached perspective view of the dasher; and Fig. 5 is a like view of the casting for preventing the escape of the contents of the receptacle through the opening therein provided for the handle or lever.

Referring to the drawings, in which like letters of reference denote corresponding parts in all the figures, A designates the receptacle or body of a churn embodying my improvements, which comprises the parallel side walls, *a*, the end walls, *a'*, arranged at right angles to the side walls and parallel with each other, and the horizontal bottom a^2, which are all firmly united together in the manner which I will presently describe. The vertical end walls, *a'*, of the receptacle are provided with rabbets or grooves *b* in their edges, and in these rabbets are fitted the terminal ends of the side walls, and the lower edges of the side and end walls of the receptacle are provided with aligned grooves *c*, in which are fitted the edges of the horizontal bottom a^2 of the receptacle. The several side and end walls, as well as the bottom of the receptacle, are firmly united by means of a water-proof cement, as at *d*, which effectually closes and seals the joints between them, and thereby prevents the receptacle from leaking, which is very desirable. The joints between the end and side walls are concealed by means of vertical and horizontal molding-strips B, of any preferred pattern, and the joints between the vertical walls and horizontal bottom are likewise concealed and protected by means of the horizontal strips C. These molding-strips B C are permanently secured to the walls of the receptacle by means of the water-proof cement, as at *d'*, and they impart a neat and attractive appearance to the receptacle in addition to protecting the joints between the walls thereof.

The upper edges of the upper horizontal molding-strips, B, are extended above the upper edges of the vertical walls of the receptacle, and a cover or lid, D, is fitted between the said extended edges of the strips and rests upon the edges of the vertical walls, as shown. This cover is fitted very snugly in place and can be readily removed from the receptacle, and at its ends it is provided with depending battens d^2, which are rigidly affixed to the under side thereof and fit against the inner sides of the end walls of the receptacle near their upper edges.

The removable cover is further provided with a longitudinal slot, d^3, at its middle, and to the under side of the cover is rigidly affixed or secured a casting, E, which depends from the cover and surrounds the opening or slot d^3 therein, to effectually prevent the contents of the receptacle from escaping through the said opening or slot while the operation of churning is being performed.

The casting is shown in detail in Fig. 5 of the drawings, and comprises the parallel side walls and the corresponding end walls arranged at right angles to the side walls; and

each of the side walls have integral flanges *e*, which are arranged at their upper edges and at right angles thereto. The ends of these right-angled flanges are extended beyond the end walls, as shown, and through the flanges are formed transverse openings, through which are passed screws or other means to securely and rigidly affix the casting to the under side of the cover.

F designates the dasher, which operates in the receptacle A, and which comprises the parallel side bars, *f*, and the transverse slats or bars *f'*, which are rigidly affixed at their terminal ends to the side bars to provide a rigid and firm structure. The transverse bars or slats are arranged parallel and out of contact with each other, to provide spaces between their contiguous sides or edges for the free passage of the cream therethrough, and the upper ends of the parallel side bars of the dasher are curved toward one another and meet at the vertical axis of the dasher, the said ends of the side bars being rigidly and firmly secured to the hand-lever G in any preferable manner. This hand-lever passes through the slot d^3 and the casting E, and it is pivoted or supported on a shaft, *g*, which is in turn supported or journaled in the casting, as will be very readily understood.

The receptacle or body of my improved churn is made substantially rectangular in form, so that its length is greater than its width, and the swinging dasher is of a width slightly less than or equal to the width of the receptacle, and it is capable of movement in the direction of the longitudinal axis of the receptacle. When the operation of churning is being performed, the operator grasps the upper end of the hand-lever and moves it back and forth, thereby actuating the dasher in like manner. As the dasher swings back and forth in the receptacle the contents thereof are thrown from one end to the other and caused to break against the end walls of the receptacle, and by reason of the rapid motion of the dasher the cream is very violently agitated in the receptacle, and the operation of churning is rapidly and easily performed.

The cover can be readily removed from the receptacle, and the dasher, the casting, and the hand-lever are removed with the same, and ready access can be had to both the churn receptacle and dasher to easily and rapidly cleanse the same.

The operation and advantages of my invention will be readily understood and appreciated by those skilled in the art to which it relates from the foregoing description, taken in connection with the accompanying drawings.

Having thus fully described the invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the churn body or receptacle, of the lid or cover resting upon the upper edges of the side and end walls of the receptacle and provided with a longitudinal slot at its center, battens secured to underside of the cover and fitting against the end walls of the receptacle, the casting secured to and depending from the cover and surrounding the slot therein, and the dasher having its handle extended through the slot and pivoted upon a shaft passed through the same and the casting, substantially as set forth.

2. The combination, with the receptacle and the slotted cover for the same, of the casting secured to the under side of the cover, said casting consisting of the parallel sides and ends surrounding the slot in the cover and the flanges on the sides at right angles thereto, by which the casting is secured to the cover, and the dasher having its handle extended through the slot in the cover and pivoted upon the shaft passing through the same and the casting, substantially as set forth.

3. The combination, with the receptacle, of the slotted cover resting upon the walls thereof, the casting depending from the cover and surrounding the slot therein, and the dasher having its handle extended through the slot and pivoted upon a shaft passed through the casting, said dasher consisting of the side bars, *f*, secured to the handle, and the parallel bars *f'*, secured by and between the side bars, substantially as specified.

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

MARTIN VAN ENSLEY.

Witnesses:
J. E. MAGERS,
W. D. MCDONALD.