

O. V. WASHINGTON.
Churns.

No. 196,507.

Patented Oct. 23, 1877.

Fig. 1.

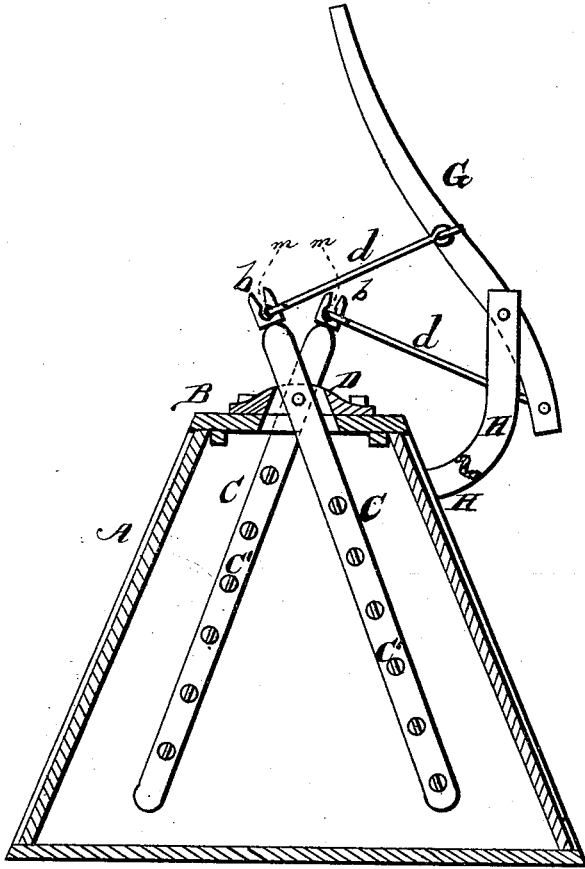
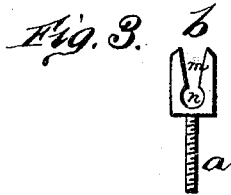
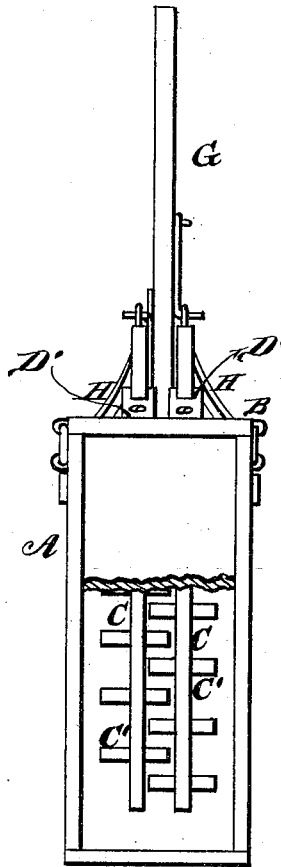


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

ORLANDO V. WASHINGTON, OF BURDETT, MISSOURI.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. **196,507**, dated October 23, 1877; application filed September 1, 1877.

To all whom it may concern:

Be it known that I, ORLANDO V. WASHINGTON, of Burdett, in the county of Bates and State of Missouri, have invented a new and valuable Improvement in Churns; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal vertical sectional view of my churn. Fig. 2 is a transverse vertical sectional view, and Fig. 3 is a detail view of one of the parts.

The nature of my invention consists in the construction and arrangement of a churn, as will be hereinafter more fully set forth.

The annexed drawing, to which reference is made, fully illustrates my invention.

A represents the body of my churn, constructed with parallel sides and the ends inclined, making the base or bottom of the churn considerably larger than the top. B is the lid of the churn, fastened to the body A by hooks or any other suitable means. In the top B are two slots or mortises for the passage of the two dasher rods or shafts C C, which are pivoted in slotted boxes or castings D D permanently fastened on top of the lid B. The rods or shafts C C are provided with arms or dashers C' C', substantially as shown, for agitating the milk. These dashers may be beveled or otherwise constructed, to produce, by the rocking motion of the shafts, the most violent agitation of the milk and the consequent breaking of the globules. In the upper end of each rod or shaft C is inserted a fork, b, which is formed with a screw-shank, a, screwed lengthwise into the end of the shaft. The forks b b are provided at their upper ends with V-

shaped slots m, terminating at their lower ends in the circular openings n, for the reception of the hooked ends of the connecting-rods d d, which can readily be introduced through the slots into their seats n, or removed therefrom through the slots, without any binding action on the rods, which would occur if introduced or removed into eyes not made with such slots. The forks b b are connected by the rods d d with an operating-lever, G, pivoted between the two arms H H, attached to and projecting from the churn-body. By this construction the hooked ends of the rods d d can readily be inserted in their seats in the circular openings n, or removed therefrom when it is desired to remove the lid and the dashers from the churn-body. The pitmen d d are connected to the operating-lever on opposite sides of the fulcrum, so that by working said lever back and forth the dasher-rods will be operated alternately in opposite directions, thus obviating the employment of double cranks and more complicated mechanism in oscillating the churn-dashers.

What I claim as new, and desire to secure by Letters Patent, is—

The dasher-shafts C C, having inserted in their upper ends the screw-shanks a a of the forks b b, provided with the V-shaped slots m and circular openings n, in combination with the hooked connecting-rods d d and lever G, pivoted between the arms H H, attached to the churn-body, substantially as described, and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ORLANDO V. WASHINGTON.

Witnesses:

A. T. MUDD,
WILLIAM BAGBY.