H. C. HORSEY.

Churn.

No. 216,739. Patented June 24, 1879.

Fig. 1.

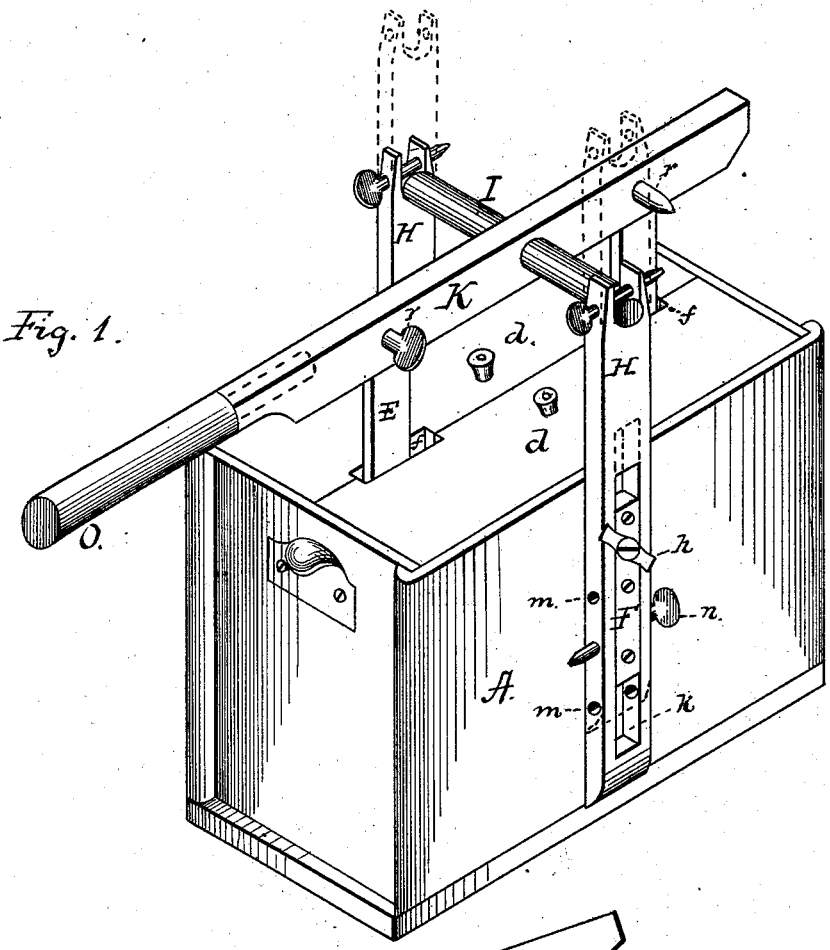
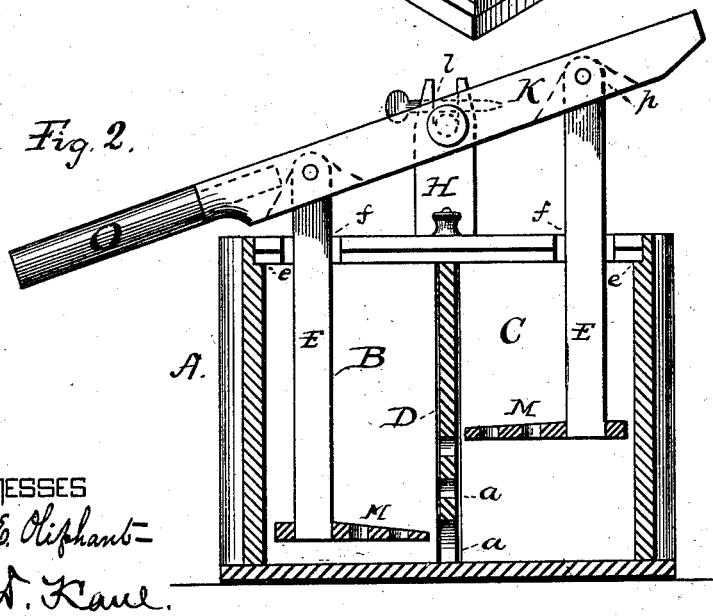


Fig. 2.



WITNESSES

Nat. E. Oliphant

D. A. Kane.

INVENTOR

Harvey C. Horsey

by Thos. Hamm

atty

UNITED STATES PATENT OFFICE

HARVEY C. HORSEY, OF MOUNT PLEASANT, IOWA.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. **216,739**, dated June 24, 1879; application filed February 4, 1879.

To all whom it may concern:

Be it known that I, HARVEY C. HORSEY, of Mount Pleasant, in the county of Henry and State of Iowa, 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, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a perspective view of my improved churn. Fig. 2 is a central sectional view of the same.

The object of this invention is to produce a churn that will be compact, cheap, and efficient, embodying two communicating compartments and two dashers operated by a single lever; and the novelty consists, principally, in the means for adjusting the operating mechanism to adapt it to the height of the person operating it, or to accommodate any circumstances that may require an adjustment, and at the same time to the amount of cream to be churned; also, in the novel combination and arrangement of the parts, as will be hereinafter more fully set forth and specifically claimed.

In the annexed drawings, the letter A represents a rectangular box of suitable dimensions, which is divided into two compartments, B C, by means of the vertical partition D. The partition D, provided with a series of perforations and slots, *a*, fits into vertical grooves on the inside walls of the box, so that it can be easily removed and put in at pleasure.

The object of the perforations and slots in the partition D is to allow the cream to pass freely from one compartment to the other and break the little butter-sacs.

The top of the churn is closed by two lids, *d d*, divided longitudinally, resting upon the ledges *e*, and are prevented from casual separation by means not shown. The lids are slotted at *f* for the passage of the dasher-rods E, hereinafter described.

To each side of the churn-box A, about midway, is permanently secured the vertical narrow strip or cleat F, having at the upper end the pivoted button *h*. The lower ends of the cleats are provided with a transverse hole to receive a pin, hereinafter described.

The letters H indicate adjustable uprights or standards, provided with elongated slots or openings *k*, to pass over or straddle the cleats F. (Only one shown—see Fig. 1 of the drawings.)

The lower end of each standard is provided with a series of holes, *m*, to receive a pin, *n*. The upper ends of the standards are notched or recessed at *l*, to afford a bearing for the rock-shaft I, carrying the operating-lever K, as shown in the drawings.

To the operating-lever K, within the recesses *p*, are attached, by means of the connecting-pin *r*, two vertical rods, E, known as "dasher-rods." To the lower ends of these rods are secured the perforated agitators or dashers M, of such size as to conform to the size of the compartments in the box A. The upper surfaces of the dashers are inclined in the direction of the partition, for the purpose of throwing the cream that is lifted with the dasher in its ascent forcibly inward against the partition, to agitate the same and lessen the power in operating the churn.

To adjust the standards H, carrying the rock-shaft, with operating-lever and dashers, the pin *n* is removed and the standards raised or lowered to suit the circumstance; and when the desired adjustment is had the pin is again inserted in the proper hole *m*, registering with the hole in the cleat F, and the button *h* assists in retaining the standards in position. This adjustment to suit the height of the person operating the churn does not affect the stroke of the dashers—that is to say, the dashers pass from the top to the bottom of the cream in the churn-box.

One end of the operating-lever is recessed to receive a socketed handle, O, which is detachable when the machine is not in operation.

What I claim as my invention is—

1. The combination, with the churn-box A, having side cleats, F, arranged on opposite sides, of the vertically-adjustable standards H, straddling the cleats on the box and carrying

the operating mechanism, substantially as set forth.

2. In a churn, the body-box A, having the side cleats, F, the standards H, having elongated slot and a series of holes, the rock-shaft I, operating-lever K, dasher-rods E, and dashers M, all combined as set forth.

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

HARVEY C. HORSEY.

Witnesses:

JAMES DOUGHERTY,

A. MCCARTNEY.