

H. A. NEVERS & C. ROSS.
CHURN.

No. 30,686.

Patented Nov. 20, 1860.

Fig. 1.

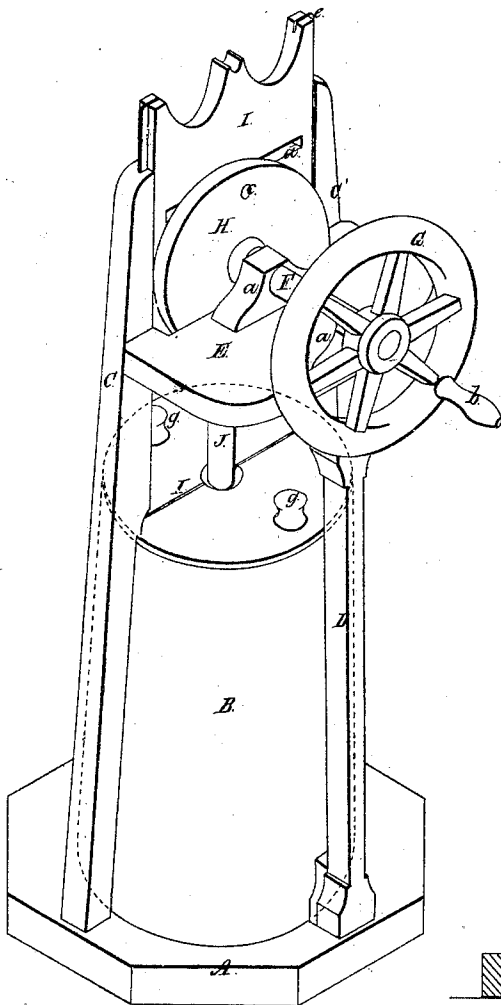
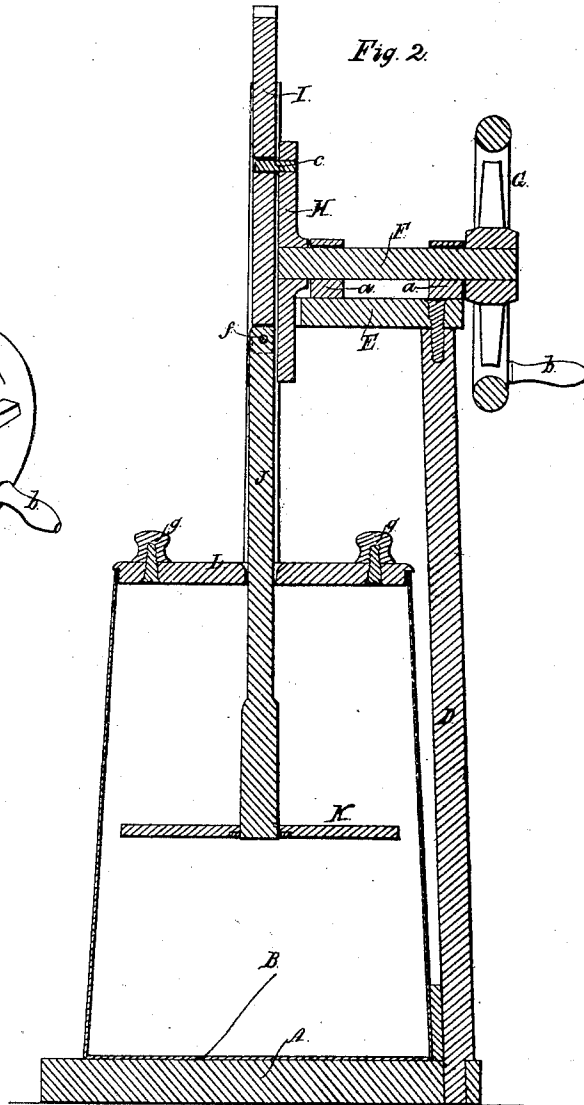


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

H. A. NEVERS AND C. ROSS, OF CLAREMONT, NEW HAMPSHIRE.

CHURN.

Specification of Letters Patent No. 30,686, dated November 20, 1860.

To all whom it may concern:

Be it known that we, HENRY A. NEVERS and CHAS. ROSS, of Claremont, in the county of Sullivan and State of New Hampshire, have invented certain new and useful Improvements in Churns, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1, is a perspective view of a churn with our improvements attached. Fig. 2, a vertical section through the same.

The object of our present invention is to produce a neat and compact churn, which may be easily operated, and consists in causing the rotary motion applied to a shaft to operate an eccentric pin which plays in a groove or slot cut in a gate or slide attached to the dash rod, by which means the dash is raised and lowered vertically within the churn as required.

To enable others skilled in the art to understand and use our invention we will proceed to describe the manner in which we have carried out the same.

In the said drawings, A, is the base, on which rests the body of the churn B, from the base A, rise the standards C, C', and D, between which is secured the shelf or platform E, in suitable bearings *a* on which is supported the horizontal shaft F. This shaft carries at one end a wheel G, to which is attached the handle *b*, and at the other end a circular plate or disk H. To the outer face of this disk near its periphery is secured a pin *c* which plays eccentrically in a horizontal slot *d* cut in a gate or slide I I, so that as the disk H, is revolved, the gate I, will be raised and lowered vertically as required.

This gate is furnished with tongues *e* which slide in corresponding grooves in the standards C, C', by which means it is guided in its motions. To the lower end of the gate I, is attached by a pin *f* (Fig. 2,) the dash rod J, which passes through a hole in the cover L, and to the bottom of which is secured the dash K, which works in the body of the churn B. The cover L is made in two pieces, each of which is provided with a knob or handle *g*.

The following is the operation of this churn: Motion is communicated to the wheel G, and through the shaft F to the disk H, the pin *c* on which as it revolves plays in the slot *d*, in the gate I, by which means the gate is raised and lowered vertically and with it the rod J, and dash K, which agitates the cream as required.

When it is desired to remove the dash from the churn it is only necessary to remove the cover L, and take out the pin *f*, when the rod J, may be detached from the gate I. By the above described arrangement of parts, we are enabled to produce a neat and compact churn, and one that is easily operated.

What we claim as of our invention and desire to secure by Letters Patent, is—

The combined arrangement of the driving shaft F, face plate and crank pin H, *c*, with the vertically reciprocating carriage I, provided with a horizontal slot *d*, and the rod J, of the dasher; the whole constructed and operating as specified for the purpose set forth.

HENRY A. NEVERS,
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Witnesses:

HENRY A. DICKINSON,
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