

W. B. NUNN.

CHURN.

No. 177,148.

Patented May 9, 1876.

Fig. 1

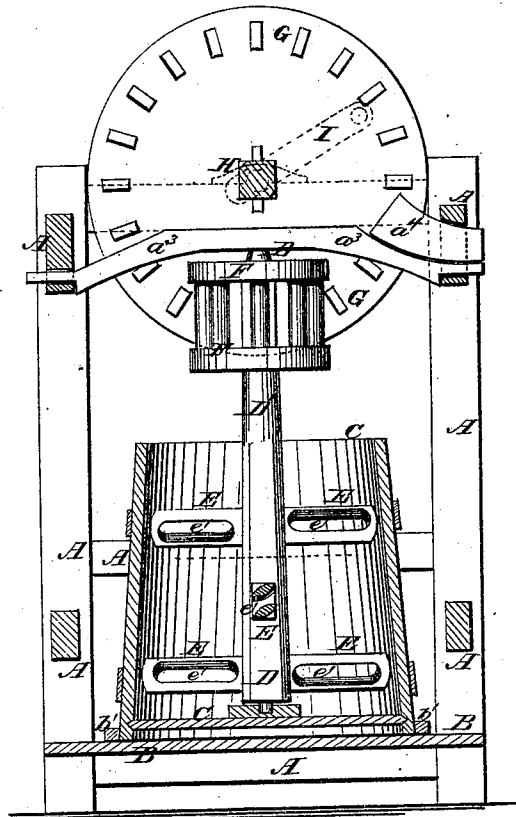
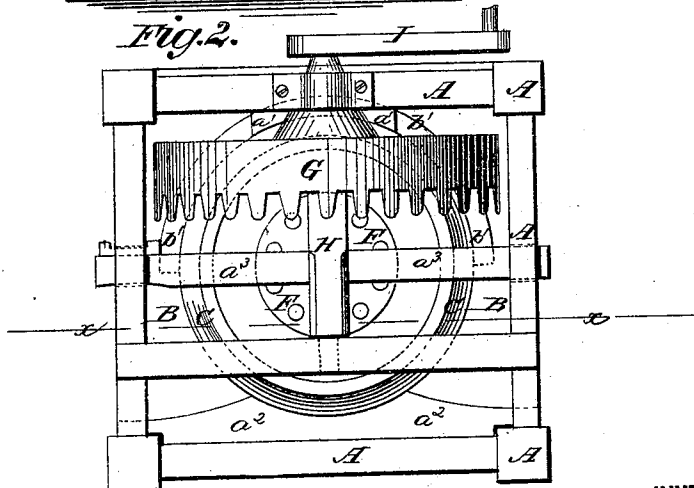


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM B. NUNN, OF EDMONTON, KENTUCKY.

IMPROVEMENT IN CHURNS.

Specification forming part of Letters Patent No. 177,148, dated May 9, 1876; application filed January 3, 1876.

To all whom it may concern:

Be it known that I, WILLIAM BARTON NUNN, of Edmonton, in the county of Metcalfe and State of Kentucky, have invented a new and useful Improvement in Churning Apparatus, of which the following is a specification:

Figure 1 is a vertical section of my improved churning apparatus, taken through the line *xx*, Fig. 2. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved churning apparatus which shall be simple in construction, convenient in use, easily operated, and effective in operation, bringing the butter in a very short time.

The invention consists in means for securing the churn-barrel in place, as will be hereinafter more fully set forth.

A is the frame, which is made rectangular in form, and to the lower cross-bars of which is attached a platform, B, for the churn C to stand upon. The churn C is centered upon the platform B by a half-ring rib, *b'*, attached to said platform for the churn C to fit against. The rear side of the churn C rests against a concaved block, *a*¹, attached to a cross-bar of the frame A. The churn C is locked in place by a cross-bar, *a*², the inner side of which is concaved to fit against the side of the churn C, and the ends of which rest upon the side cross-bars of the frame A, and are notched upon their forward sides, to fit upon the forward posts of the said frame A. The churn C is thus firmly locked in place. D is the dasher-shaft, the lower end of which revolves in a socket in the center of the bottom of the churn C. To the dasher-shaft D are attached two or more cross-bars, E, which are made of such a length that their ends may reach to or nearly to the sides of the churn C. The end parts or arms of the bars E have longitudinal slots *e'* formed in them. The sides of the slots

e' in the upper bar E incline downward from the forward toward the rear side of said bar, and the slots *e'* in the lower bar or bars E incline upward from the forward toward the rear side of said bar or bars. The edges of the bars E are beveled or inclined in the same direction as the sides of their slots. By this construction, as the dasher is revolved the upper bar E tends to throw the milk downward, and the lower bar or bars E tend to throw it upward, which currents meet and are broken up, throwing the milk into violent agitation, and bringing the butter in a very short time. The upper end of the dasher-shaft D revolves in a socket in the cross-bar *a*³, the ends of which enter mortises in the side cross-bars of the frame A. One of the mortises for the ends of the cross-bar *a*³ is made wide, so that the end of said cross-bar may be raised sufficiently to allow the dasher-shaft D to be detached. The cross-bar *a*³ is held down upon the end of the dasher-shaft D by a wedge, *a*⁴, inserted in the wide mortise above the end of the said cross-bar *a*³. To the upper part of the shaft D is attached a lantern-wheel or trundle-wheel, F, the trundles or rounds of which mesh into the cogs of the large cog-wheel G, attached to the shaft H. The journals of the shaft H revolve in bearings in cross-bars of the frame A, and to its outer journal is attached the crank I, by which the churn is operated.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the detachable bar *a*³ and the wedge *a*⁴ with the frame A, having opening for receiving the bar and wedge, the churn-barrel C, and the dasher D, as and for the purpose set forth.

WILLIAM BARTON NUNN.

Witnesses:

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