

(No Model.)

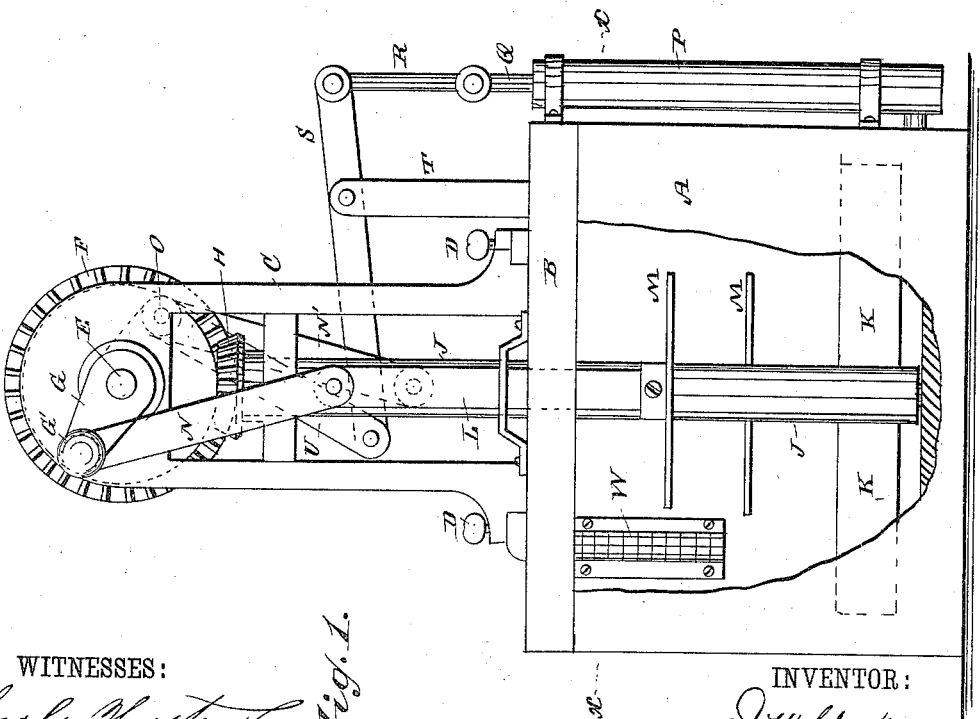
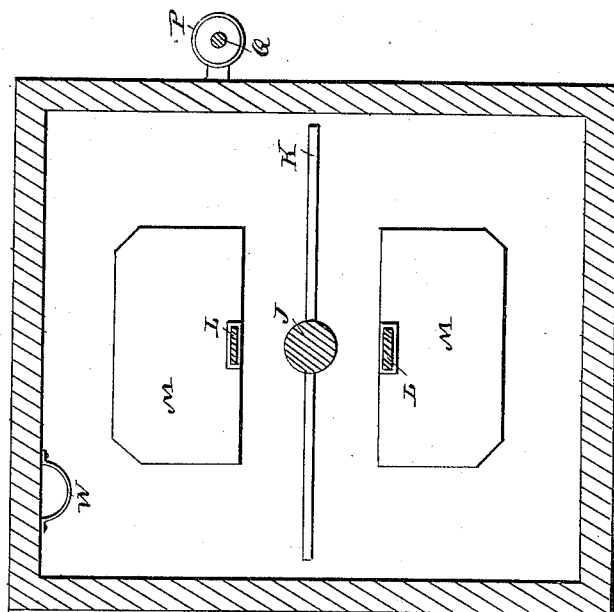
J. W. CLARK.

CHURN.

No. 306,220.

Patented Oct. 7, 1884.

Fig. 2.



WITNESSES:

*Phoebe G. Hooper*  
*W. Bedgwick*

Fig. 1.

INVENTOR:

BY

*J. W. Clark*  
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ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOHN WILSON CLARK, OF BANKSVILLE, PENNSYLVANIA.

## CHURN.

SPECIFICATION forming part of Letters Patent No. 306,220, dated October 7, 1884.

Application filed March 25, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN W. CLARK, of Banksville, Allegheny county, and State of Pennsylvania, have invented a new and Improved Churn, of which the following is a full, clear, and exact description.

The invention consists in the construction and combination of parts, as will be herein-after fully described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side view of my improved churn, parts being broken out. Fig. 2 is a sectional plan view of the same on the line *xx*, Fig. 1.

The cream-box A is provided with a cover, B, on which a hollow or two-legged standard, C, is held, which is secured detachably on the cover by two thumb-screws, D, screwed through the bases of the legs of the standard into the said cover.

In the top of the standard C a shaft, E, is journaled, on one end of which is rigidly mounted a beveled cog-wheel, F, and on the other end is rigidly mounted a crank, G, provided with a handle, G'. The bevel cog-wheel F engages with a bevel-pinion, H, mounted rigidly on the upper end of a vertical shaft, J, journaled in the bottom of the box A and in the cover, and on the lower end of which shaft wings K are mounted.

On each side of the shaft J dasher bars or rods L are held to reciprocate vertically, and on the lower end of each dasher-rod a dasher, M, is secured. The dasher bars or rods L are connected by connecting bars or rods N N', respectively, with the outer end of the crank G and a wrist-pin, O, projecting from the outer surface of the bevel cog-wheel F, diametrically opposite the crank. An air-pump, P, is

secured on one side of the box, and its piston-rod Q is connected by a connecting-rod, R, with a lever, S, pivoted in a standard, T, on the cover, the other end of the lever S being connected by a connecting-bar, U, with the wrist-pin O. The bottom of the cylinder of the pump P is connected with the interior of the box. A wire-netting receptacle, W, for a thermometer is secured on the inner surface of one of the sides of the box directly below the cover. If the shaft E is revolved, the bevel cog-wheel F revolves the pinion H and the shaft J, and the dasher bars or rods L are reciprocated. At the same time the air-pump is operated and cold air is pumped into the cream-box. If the cream is cool enough, the pump can be disconnected, so as not to be operated. If the churn is to be emptied, the entire working mechanism and the standard C carrying it can be disconnected by loosening the screws D.

The dashers M do not move downward sufficiently to interfere with the wings K.

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

In a churn, the combination, with a cream-box, of the standard C, the shaft E, the bevel cog-wheel F, the vertical shaft J, provided at its top with a bevel-pinion, H, engaging with the bevel cog-wheel F, wings K on the lower end of the shaft J, the reciprocating dasher bars or rods L, connected by connecting-bars with the bevel cog-wheel and a crank, G, the pump P, the pivoted lever S, for working the pump, and of a bar connecting the lever S with the bevel cog-wheel, substantially as herein shown and described.

JOHN WILSON CLARK.

Witnesses:

GEO. H. WOODS,  
F. C. MILLER.