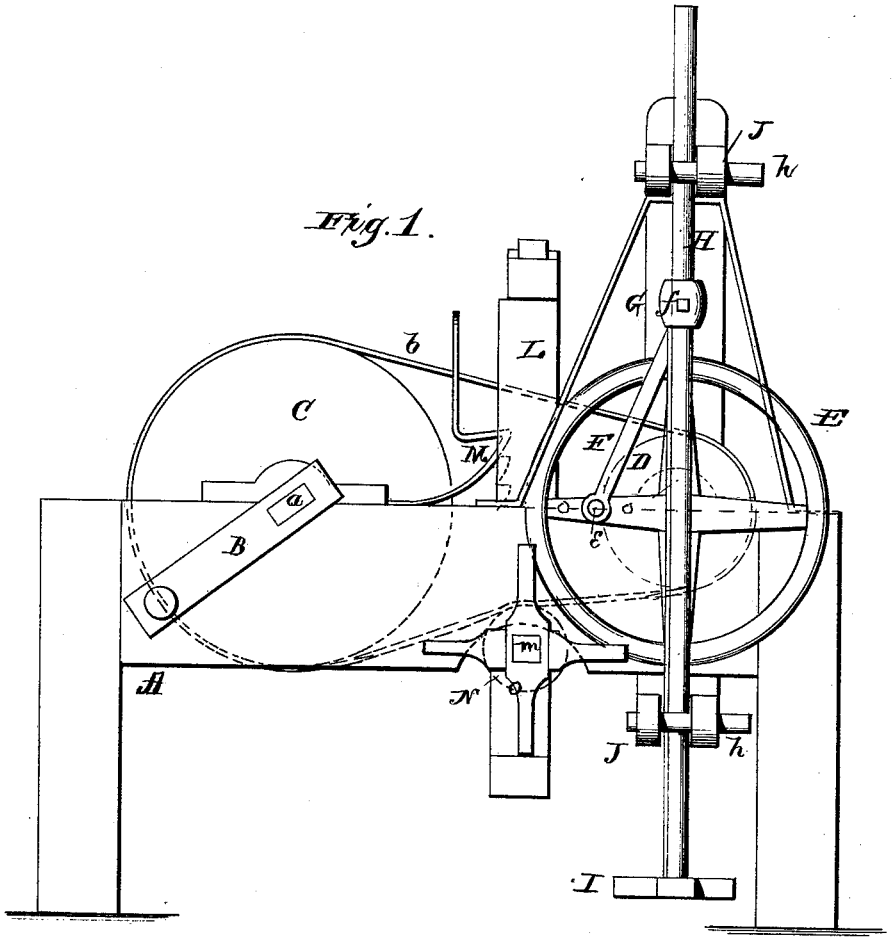
2 Sheets—Sheet 1.

# J. N. BELLINGER.

## Churn-Power Mechanism.

No. 217,980. Patented July 29, 1879.

Fig. 1.

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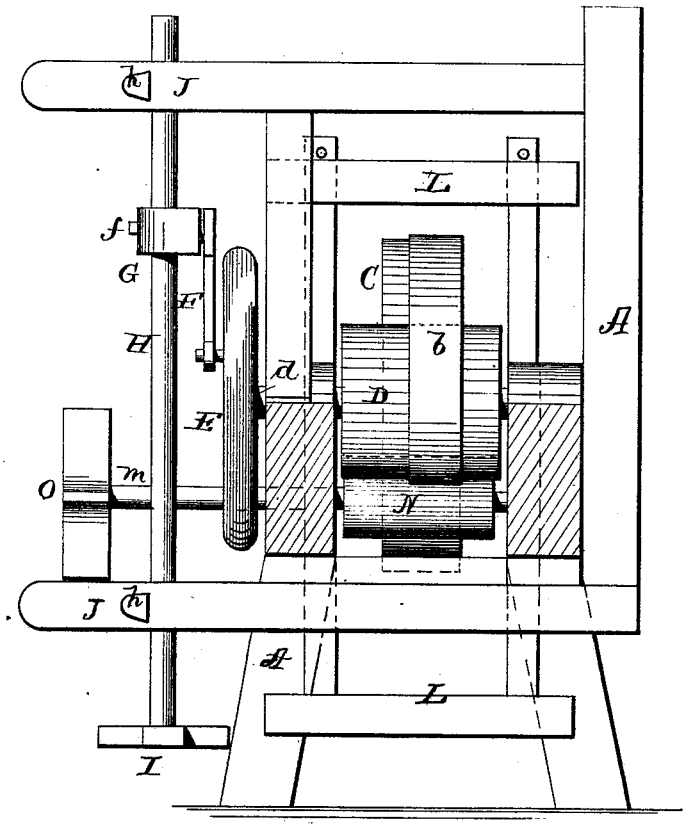
# J. N. BELLINGER.

## Churn-Power Mechanism.

No. 217,980. Patented July 29, 1879.

*Fig. 2.*

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# UNITED STATES PATENT OFFICE.

JOHN N. BELLINGER, OF WINONA, MISSISSIPPI.

## IMPROVEMENT IN CHURN-POWER MECHANISMS.

Specification forming part of Letters Patent No. **217,980**, dated July 29, 1879; application filed May 15, 1879.

*To all whom it may concern:*

Be it known that I, JOHN N. BELLINGER, of Winona, in the county of Montgomery, and in the State of Mississippi, have invented certain new and useful Improvements in Churn-Power Mechanisms; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

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

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a side elevation of my machine. Fig. 2 is an end view of the same.

A represents the frame-work of my churn-power. *a* is a shaft, with crank B on one end for turning the same. On this shaft *a* is a wheel or pulley, C, connected by a belt, *b*, with a pulley, D, on a shaft, *d*, thus imparting motion to this latter shaft.

On one end of the shaft *d* is secured a fly-wheel, E, to one of the spokes of which is attached a wrist-pin, *e*. On this wrist-pin is placed a pitman or connecting-rod, F, which is pivoted to a clamp, G, and this clamp is, by a set-screw, *f*, fastened on the dasher-rod H, which has the churn-dasher I secured to its lower end.

The rod H is placed in slotted guides or arms J J of the frame, and held therein by pins *h h*, which will admit of the rod being easily and quickly put in and taken out as required. The dasher-rod H can be adjusted up and down in the clamp G and fastened at any point by the set-screw *f*, and the stroke of the rod can be easily regulated by changing the position of the wrist-pin *e* to or from the center of the fly-wheel.

Between the two shafts *a* and *d* in the main frame is a vertically-adjustable frame, L, which may be raised and lowered and held at any point by means of a spring-catch, M. The frame L carries a roller, N, which is held by the adjustment of the frame against the belt *b*, and thus forms a belt-tightener.

The roller or pulley N is fastened on a shaft, *m*, which is projected forward and carries on its end a fan-wheel, O. The roller or pulley N receives a rotary motion from the belt *b*, thus giving the fan-wheel O a rapid rotary motion.

The object of this fan is not only as a comfort to the operator during hot weather, but also blows away all dirt, flies, &c., preventing the same from getting into the churn.

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

1. In a churn-power mechanism, the combination, with the operating mechanism, of the belt-tightening roller N, shaft *m*, and fan-wheel O, as and for the purposes herein set forth.

2. In a churn-power mechanism, the adjustable frame L, with spring-catch M, roller N, shaft *m*, and fly-fan O, in combination with the belt *b*, as and for the purposes heerin set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 28th day of April, 1879.

JOHN N. BELLINGER.

Witnesses:
WILLIS BARFIELD,
TOM A. STINSON.