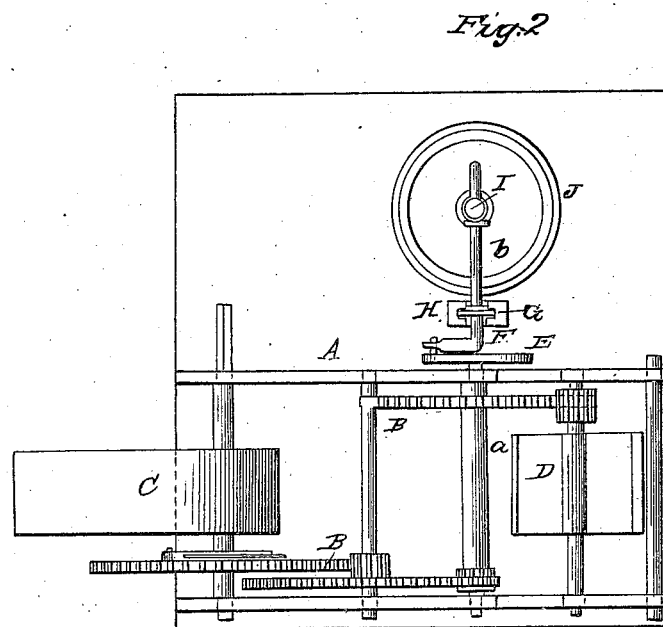
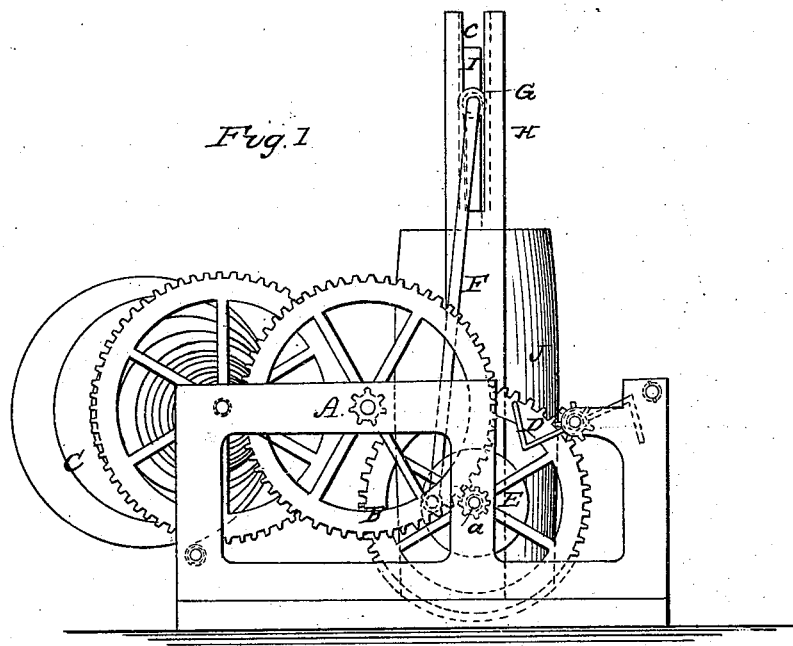


D. J. KNAPP.

Churn Power.

No. 55,120.

Patented May 29, 1866.



Witnesses.
J. M. D. Livingston
Jas. A. Service

Inventor
David J. Knapp
Per *Munn & Co.* attys

UNITED STATES PATENT OFFICE.

DAVID J. KNAPP, OF FALLSBURG, NEW YORK.

IMPROVEMENT IN CHURN-POWERS.

Specification forming part of Letters Patent No. 55,120, dated May 29, 1866.

To all whom it may concern:

Be it known that I, DAVID J. KNAPP, of Fallsburg, in the county of Sullivan and State of New York, have invented a new and Improved Churn-Power; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my invention; Fig. 2, a plan or top view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved means for operating churns such as are provided with the rising and falling dashers; and it consists of a train of wheels having a spring for a motor, by which a pitman is driven, the pitman passing through a guide and connected with the dasher-rod, as herein-after fully shown and described.

A represents a framing, in which a train of wheels, B, (multiplying-gear,) is arranged similar to an ordinary clock-movement, and driven by a spring, C.

D is a fly, which serves as a regulator, and *a* is the shaft from which the power is taken,

said shaft having a crank-pulley, E, at one end of it, to which a pitman, F, is attached. This pitman F extends upward and has its upper end bent horizontally outward, as shown at *b*, passing through a slide, G, which works freely in a slot, *c*, in an upright post, H.

I is the dasher-rod of the churn J, through which rod the upper horizontal part, *b*, of the pitman passes loosely.

The slide G insures a vertical movement of the dasher-rod, obviating much friction, the part *b* of the pitman turning freely in the slide G and dasher-rod I.

I do not claim, broadly, the operating of a dasher-rod through the medium of a spring and gearing; but

I do claim as new and desire to secure by Letters Patent—

The slide G, fitted in suitable guides or a slot in a standard or support, H, with the pitman F passing through it, substantially as shown and described, in combination with the gearing and spring, all arranged to operate in the manner substantially as and for the purpose specified.

DAVID J. KNAPP.

Witnesses:

JOHN MARTIN,
WILLIAM H. TAYLOR.