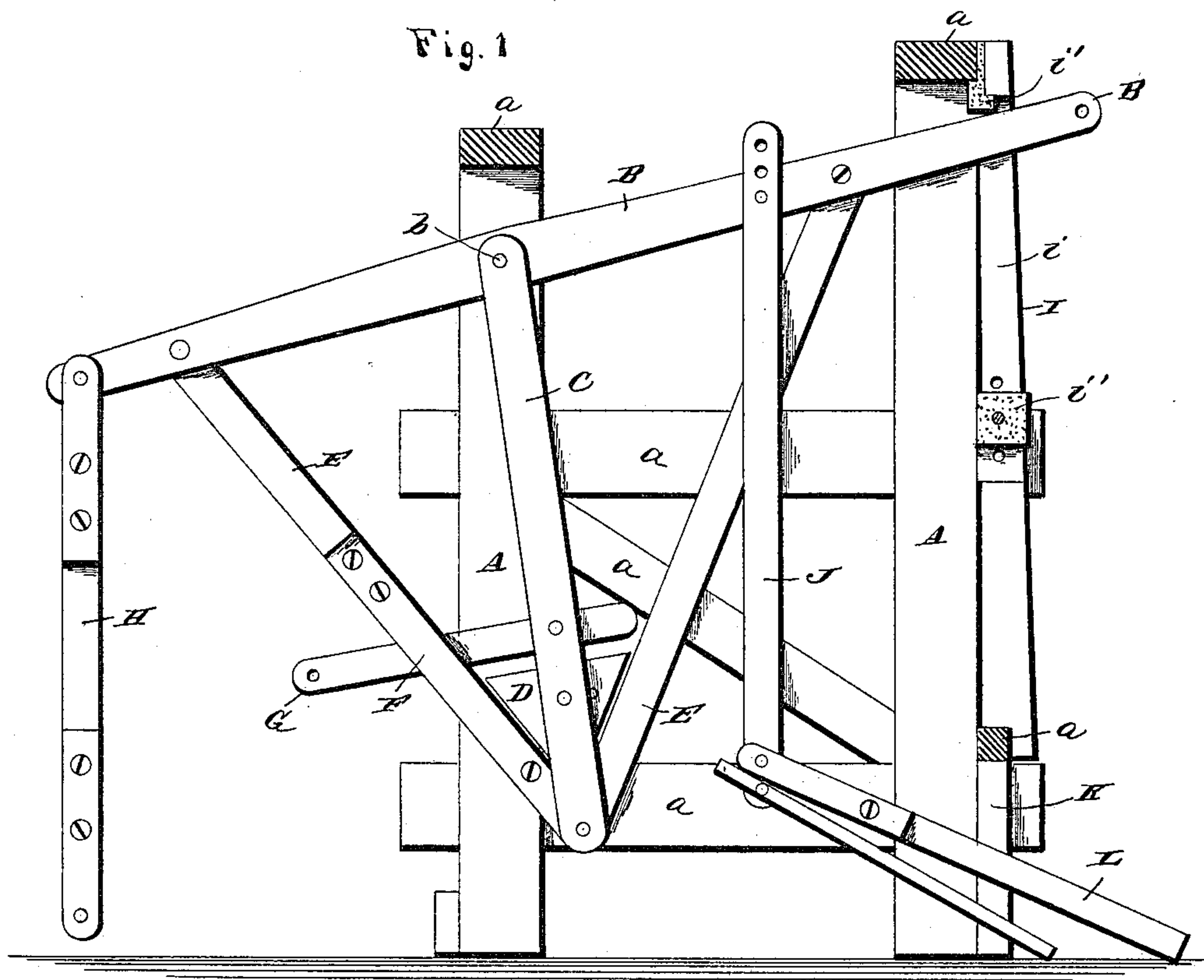


(No Model.)

G. W. THOMSON.  
MOTOR FOR CHURNS.

No. 362,797.

Patented May 10, 1887.



Witnesses

R. B. Taylor.  
R. W. Bishop.

Inventor

Inventor  
G. W. Thomson

By his Attorneys

C. A. Snowdon

# UNITED STATES PATENT OFFICE.

GEORGE W. THOMSON, OF GROVE CITY, PENNSYLVANIA.

## MOTOR FOR CHURNS.

SPECIFICATION forming part of Letters Patent No. 362,797, dated May 10, 1887.

Application filed December 16, 1886. Serial No. 221,777. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. THOMSON, a citizen of the United States, residing at Grove City, in the county of Mercer and State of Pennsylvania, have invented certain new and useful Improvements in Motors; and I do hereby declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in mechanical motors, especially adapted for operating churns and washing-machines; and it consists in certain novel features, hereinafter described, and particularly pointed out in the claim.

In the annexed drawing I have shown a side view of my device, the frame being in section and the moving parts in elevation.

Referring to the drawing by letter, A designates the frame, consisting of four posts or standards connected by braces *a*, as shown. The standards are arranged in pairs, and through the upper ends of the front pair of standards I insert a pin, *b*, upon which is pivotally mounted the lever B. The pivot-pin *b* passes through the central point of the lever B, and depending from the said lever is a pendulum, C, having a weight, D, secured to its lower end.

E E are braces, which have their opposite ends connected, respectively, to the lower end of the pendulum C and the ends of the lever B. It will be seen that one of these braces is entirely within the frame of the machine, while the other one is outside or beyond the end thereof. To this latter brace I secure a bar, F, in such manner as to leave a space between the said bar and the brace.

G is an arm secured at its inner end to the pendulum C, and passing through the said space between the brace E and bar F. This arm G is used when it is desired to operate the device by a horizontal stroke.

J is a pitman adjustably secured to the lever B, near the rear end of the same, and extending down to near the base of the machine, where it is connected to a treadle, L, working in an open space, K, between the rear standards of the frame.

I designates a guide-frame secured to the rear end of the supporting-frame, and having a slot, *i*, at its upper end, in which the rear end of the lever B works. In the ends of this slot *i*, I secure the buffers or cushions *i'*, which can be adjusted to regulate the stroke of the lever, as will be readily understood.

H is a pitman for connecting the front end of the lever B to the dasher-shaft of a churn, or the agitator-shaft of a washing-machine.

The operation of the device is simple and will be readily understood. The treadle L is operated by the foot in the usual manner, and the motion of the same is communicated to the pitman H through the pitman J and the lever B. The pendulum C acts as a governor, to make the operation of the machine easy, regular, and smooth.

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

The herein-described motor, comprising a main frame, A, a vertical guide-frame, I, affixed to one end of the main frame, and having a longitudinal slot, the elastic cushion-blocks fitted in opposite ends of the slot of the guide-frame, one of said cushion-blocks being adjustable in the slot toward and from the other block, an oscillating lever, B, pivoted centrally in the other end of the main frame, and having one end thereof working in the slot of the guide-frame, and adapted to alternately come in contact with the cushion-blocks, which thereby limit the play of the said lever, a weighted pendulum-governor suspended centrally from the oscillating lever, and having the inclined braces connected thereto, and a treadle connected by an intermediate pitman with the oscillating lever B, the free end of the said lever being adapted to be connected with the churn or other device to be driven by the motor, as and for the purpose described.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of the subscribing witnesses.

GEORGE W. THOMSON.

Witnesses:

R. G. MADGE,  
W. J. MCKAY.