

Patented Mar. 14, 1916.

Fig. 1.

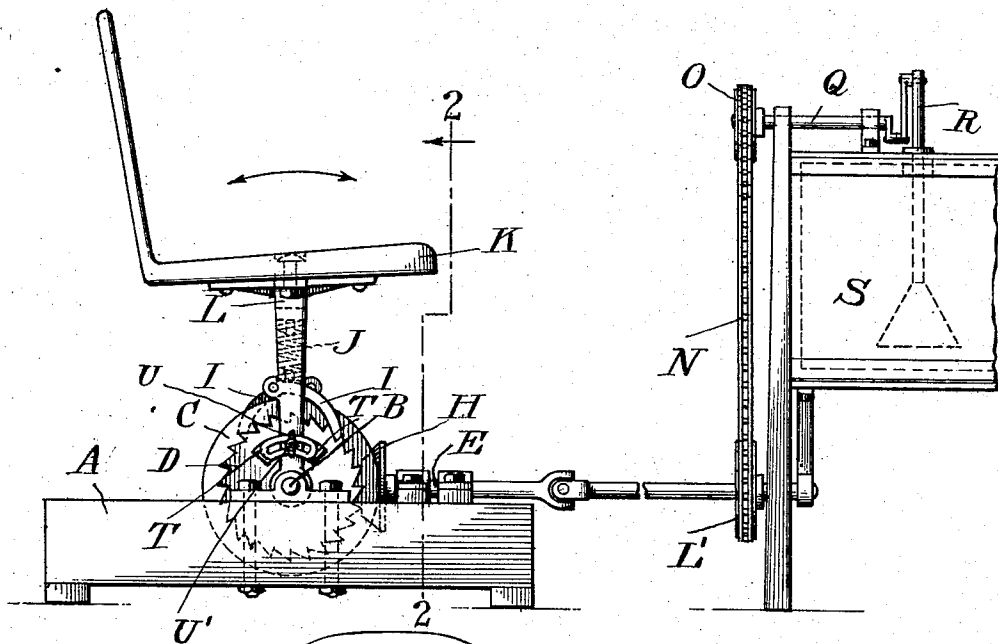


Fig. 2.

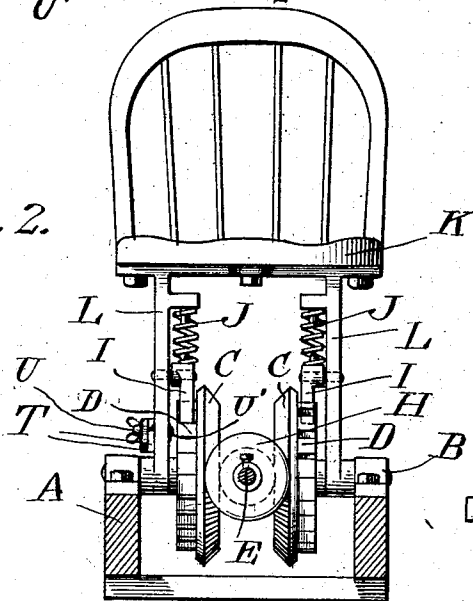
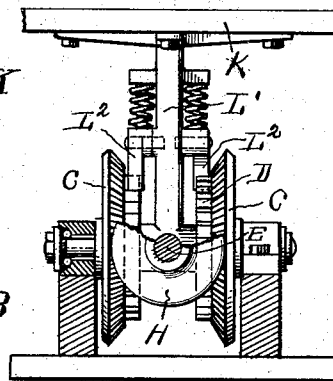


Fig. 3.



Witnesses

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INTERMITTENT OPERATING MECHANISM.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALBERT H. DRAKE, a citizen of the United States, residing at Waterloo, in the county of Blackhawk and State of Iowa, have invented certain new and useful Improvements in Intermittent Operating Mechanism; and I do hereby declare the following to be a full, clear, and exact description of the invention, 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 drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in mechanically operated mechanism for operating washing machines, churns, etc., and consists essentially in the provision of a gear mechanism actuated by the rocking of a chair and affording means whereby power may be transmitted.

The invention comprises a simple and efficient apparatus of this nature having various details of construction, combinations and arrangements of parts which will be hereinafter fully described, shown in the accompanying drawings and then specifically defined in the appended claim.

My invention is illustrated in the accompanying drawings, in which:

Figure 1 is a side elevation of the apparatus. Fig. 2 is a front view. Fig. 3 is a detail view showing a single support.

Reference now being had to the details of the drawings by letter, A designates a base upon which the apparatus is mounted and B is a shaft journaled in suitable bearings upon said base and upon which two beveled wheels C are loosely journaled and integral with each wheel is a ratchet wheel D. A driving shaft, designated by letter E, is journaled in suitable bearings and has a beveled gear wheel H at one end which is in mesh with the two gear wheels C and D. A seat, designated by letter K, has supports L fixed thereto, their lower ends being apertured and journaled upon the shaft B. Pawls, designated by letter I, are mounted one upon each of said supports and each has a spring J bearing against the same to nor-

mally hold the end of the pawl in engagement with the teeth of said ratchet-wheel. The driving shaft has fixed thereto a sprocket wheel L' which is connected by means of the sprocket chain N with a sprocket wheel O upon the shaft Q which is adapted to drive the pounder R of a washing machine S. In order to limit the rocking movement of the chair, I provide two segments T, having curved slots therein, and a thumb nut U is mounted upon a bolt U' carried by one leg L and serves to hold the two segments in different relative positions and the outer end of each segment is adapted to contact with the frame upon which the seat is mounted to limit its backward and forward movements.

In Fig. 3 of the drawings, I have shown a slight modification of my invention in which a single support L' is provided, having pawls L² pivotally mounted, one upon each side thereof and which engage the teeth of the ratchet wheels D integral with the beveled gears C.

By the provision of a mechanical motor made in accordance with my invention, it will be noted that a person rocking a chair may cause a continuous rotary motion to be imparted to the driving shaft, the pawls being so arranged that each time the seat is tilted a partial rotary movement may be transmitted from the shaft B to the shaft L'.

What I claim to be new is:—

A mechanical driving motor comprising a frame, shafts carried thereby, beveled and ratchet wheels mounted upon said shafts, a rack member having arms terminating in collars which are journaled upon said shafts, said member being provided with laterally extending lugs, pawls pivotally mounted upon the arms and engaging the teeth of the ratchet wheel, springs intermediate said lugs and pawls, screws fastened to said arms and segment members having elongated slots therein through which said screws pass, nuts fitted to the ends of the screws, said segment members adapted to contact with said frame to limit the swinging movement of the rack.

ALBERT H. DRAKE.