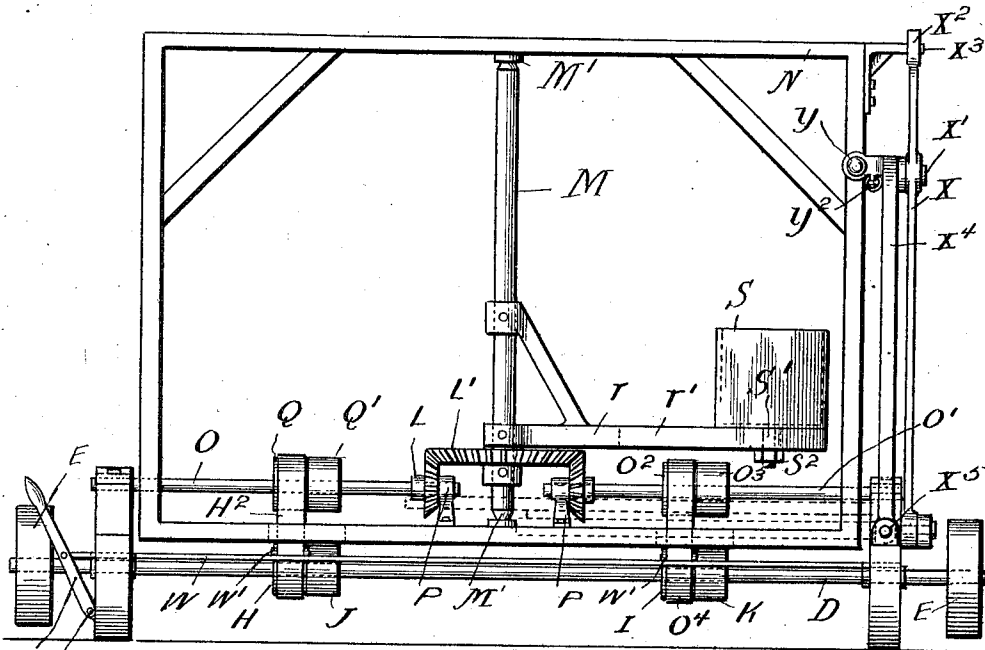


A. C. GEIGER.
WEIGHT MOTOR.

APPLICATION FILED FEB. 2, 1912.

1,029,285.

Patented June 11, 1912.



V V' FIG. 1.

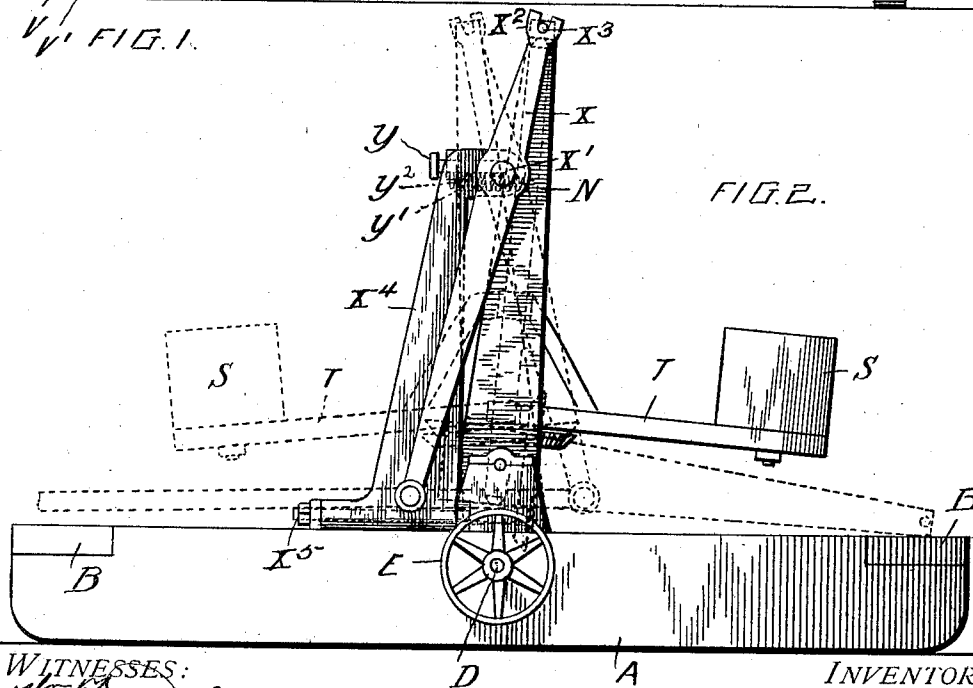


FIG. 2.

WITNESSES:

W. F. Kaye
J. W. Sherwood

INVENTOR

Alfred C. Geiger,

BY *Franklin H. Hough*
Attorney

UNITED STATES PATENT OFFICE.

ALFRED C. GEIGER, OF GLENALLEN, VIRGINIA.

WEIGHT-MOTOR.

1,029,285.

Specification of Letters Patent.

Patented June 11, 1912.

Application filed February 2, 1912. Serial No. 675,043.

To all whom it may concern:

Be it known that I, ALFRED C. GEIGER, citizen of the United States, residing at Glenallen, in the county of Henrico and State of Virginia, have invented certain new and useful Improvements in Weight-Motors; 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 mechanical motor apparatus and comprises a simple and efficient device of this nature having various details of construction and combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claim.

I illustrate my invention in the accompanying drawings, in which:—

Figure 1 is a side elevation of the apparatus, and Fig. 2 is an end view showing in dotted lines parts of the apparatus folded.

Reference now being had to the details of the drawings by letter, A designates the runners upon which the apparatus is mounted, said runners being connected by cross-pieces B. A shaft, designated by letter D, is journaled in suitable bearings in said runners, preferably at a location adjacent to the middle of the same, and pulleys E are fastened to said shaft whereby connection may be made with any motor apparatus. Mounted upon the shaft D are the fixed pulleys K and H and the loose pulleys J and I.

A rectangular outlined frame N has journaled in the ends thereof the counter shafts O and O', and upon the former of which a pulley Q is mounted and adapted to rotate therewith and also a loosely mounted pulley Q' by its side. The inner ends of the shafts O and O' each has a beveled pinion L fixed thereto which are in mesh with the beveled pinion L' keyed to the vertically disposed shaft M, which latter has tapering ends M' engaging bearings in the top and bottom of said frame. Bearing members, designated by letter P, are mounted upon the bottom of the frame and support the inner ends of the shafts O and O'. Fixed to said shaft M is a bracket arm T having a longitudinal slot T' formed therein and a receptacle S having

a lug S' projecting from its bottom passes through said slot T' and a nut S² is mounted upon the threaded end of the lug and serves as means for holding the receptacle in different adjusted positions upon said arm. The shaft O' has a pulley O³ fixed thereto and a loose pulley O², while a belt O⁴ passes about the loose pulley I upon the shaft D and the loose pulley O², and a similar belt H² passes about the fixed pulleys H and Q.

A belt shifter is provided, consisting of a longitudinally movable rod W, having laterally projecting fingers W' for engagement with the belts and an operating lever V is pivotally mounted upon a pivot V' and has pivotal connection with the rod W, whereby the latter may be moved longitudinally and the fingers W' causing the belt to be shifted from one set of pulleys to the other accordingly as it may be desired to cause the weighted arm T to swing in different directions. A lever X is pivotally mounted upon a pivot X' carried by the pivotal standard X⁴, which latter is mounted upon a pivot X⁵ upon one of the runners. Said lever has its upper end X² forked and receives the end of the bracket member X³ which is fixed to one end of the frame.

When the device is adapted for use as a toy, a push button Y is provided which may be pushed upon for the purpose of causing the frame to tilt in one direction, and a coiled spring Y' is fastened to a fixed pin Y² projecting from the lug carrying the push button and the other end of the spring is fastened to the frame, said spring being put under tension as the spring is pushed upon and serving to return the frame after having been pushed forward by the push button.

In operation, as the frame is swung upon its pivot, the weighted bracket arm may be caused to rotate and also the shaft M carrying the same, thereby transmitting rotary movements in opposite directions to the shafts O and O'. In Fig. 1 of the drawings the belted connection shows the shaft O adjusted to transmit a rotary movement in one direction to the shaft D, while the shaft O' turns idly by reason of the belt O⁴ passing over loosely mounted pulleys I and O². In the event of it being desired to impart a reverse movement to the shaft D, it may be done by throwing the belt shifter to cause the belt O⁴ to be thrown upon the fixed pulleys K and O³ and the belt H² upon the loose pulleys J and Q'.

What I claim to be new is:—

A momentum power apparatus having runners, a shaft journaled therein, counter shafts journaled in suitable bearings upon the runners, a frame pivotally mounted upon said counter shafts, means for driving the counter shafts, an upright rotatable shaft mounted in the frame and having gear connections with the counter shafts, a weighted arm fixed to said upright shaft, a standard pivoted to the runner, a lever pivoted to the standard, a bracket member upon said frame

and having pivotal connection with the lever, a push button mounted upon said standard and adapted to bear against the frame, and a spring fixed at one end to the standard and its other end to the frame, as set forth.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

ALFRED C. GEIGER.

Witnesses:

M. R. YARBROUGH,
J. B. BALLENOCH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."