

No. 724,861.

PATENTED APR. 7, 1903.

S. HAYES.
MECHANICAL POWER.

APPLICATION FILED JUNE 28, 1902.

NO MODEL.

Fig. 1.

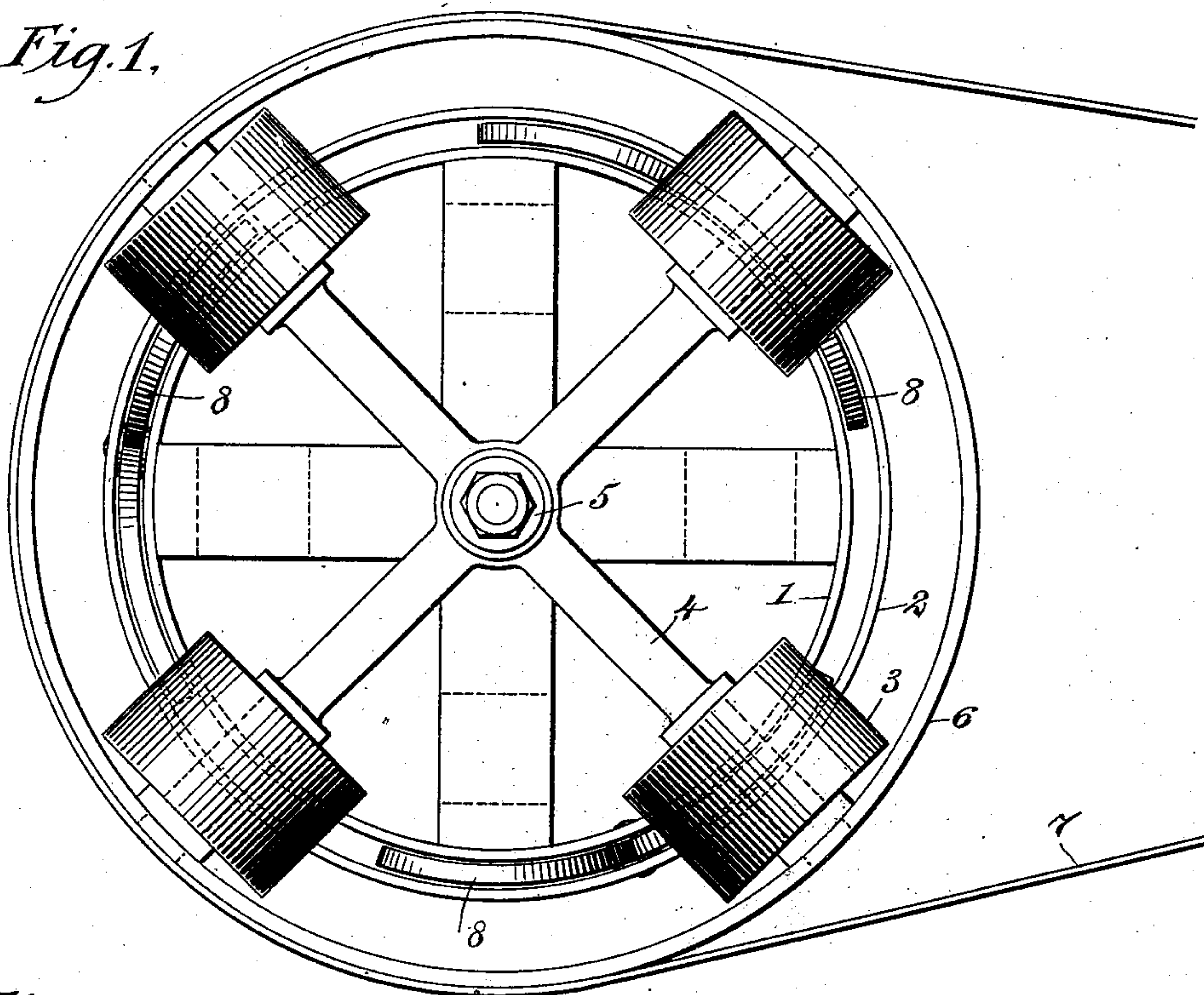


Fig. 2.

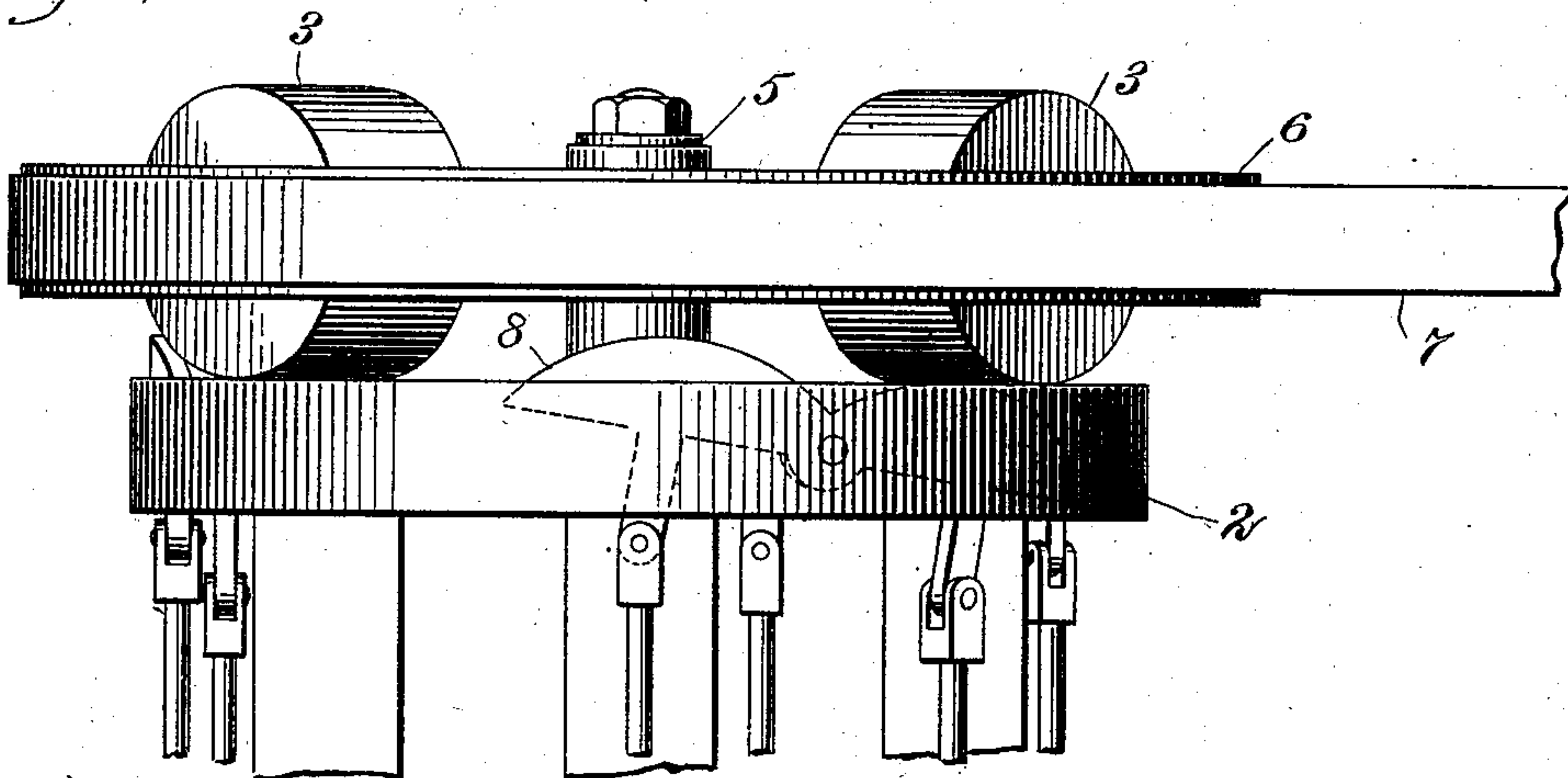
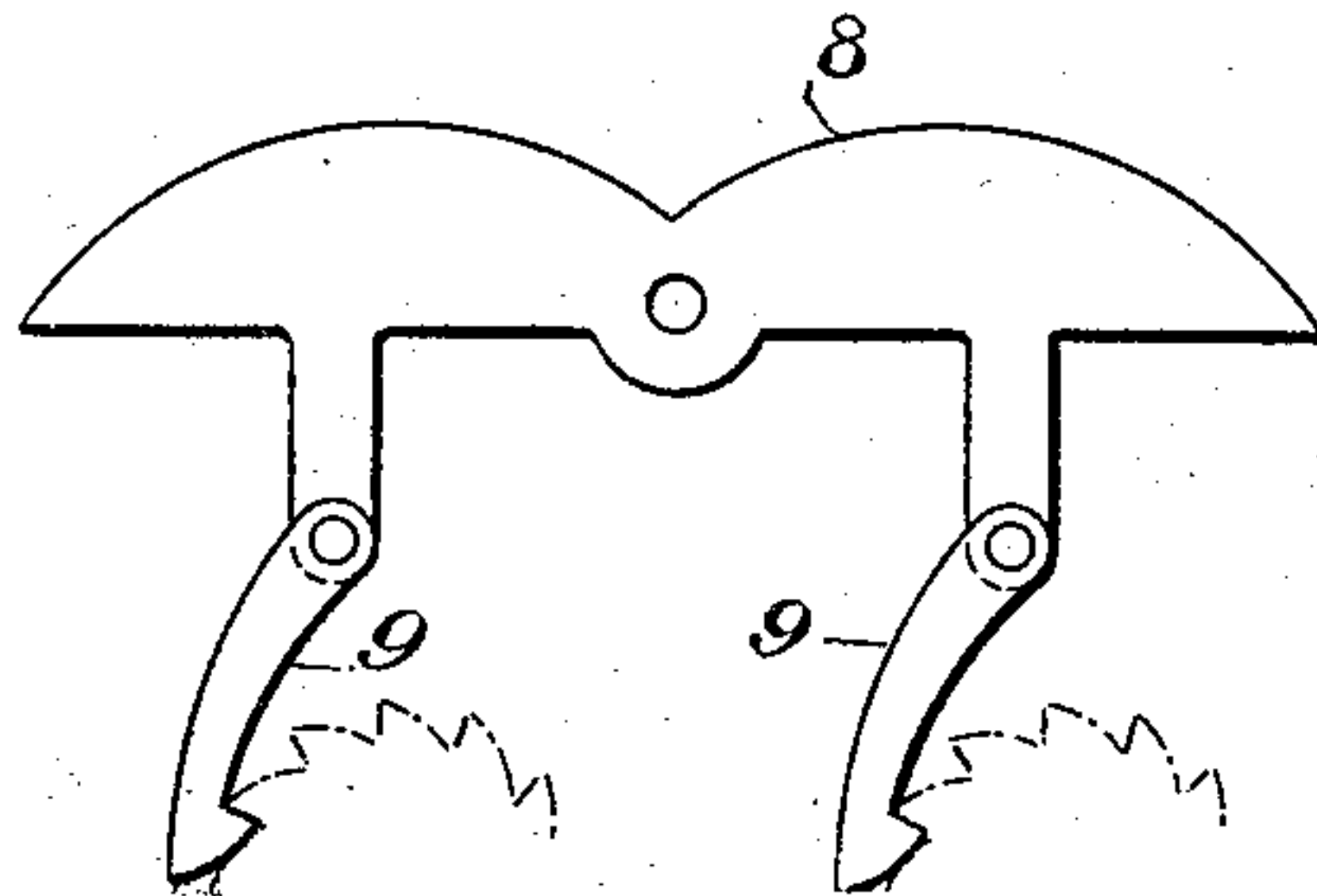


Fig. 3.



WITNESSES:

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SALVADOR HAYES, OF MACON, NEBRASKA.

MECHANICAL POWER.

SPECIFICATION forming part of Letters Patent No. 724,861, dated April 7, 1903.

Application filed June 28, 1902. Serial No. 113,592. (No model.)

To all whom it may concern:

Be it known that I, SALVADOR HAYES, a citizen of the United States, and a resident of Macon, in the county of Franklin and State of Nebraska, have invented a new and Improved Mechanical Power, of which the following is a full, clear, and exact description.

This invention relates to improvements in mechanical powers, the object being to provide a simple device employing a series of rolling weights for actuating pumping devices, air-compressors, or similar machinery.

I will describe a mechanical power embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of a mechanical power embodying my invention. Fig. 2 is a side elevation thereof. Fig. 3 is a detail showing one of the operating-levers employed.

In carrying out my invention I employ a track, here shown as circular and consisting of an inner member 1 and an outer member 2. These members are spaced apart to receive actuating devices, as will be hereinafter described, and of course they are concentric. It is to be understood, however, that the track may consist of a single member, and therefore it is to be considered as such.

Mounted to move on the track is a series of weight-rollers 3. These rollers are mounted to rotate on arms 4, extended outward from a center post 5, the said arms being adapted to rotate on the post. The outer ends of the arms connect with a rim 6, which serves as a band-wheel engaged by a band 7, driven from any suitable power. Instead of driving the device by band-power it is obvious that it may be driven by toothed gearing or the like.

Mounted to swing relatively to the track, and, as here shown, between the two members 1 and 2 of the track and at suitable distances apart, are actuating-levers 8. These actuating-levers are fulcrumed at their centers, and each end when depressed or lowered is designed to actuate a pumping rod or pawl 9 or other device. From the center each lever 8

is arched upward and outward to the ends, as clearly indicated in Fig. 3.

In operation as the weight-rollers move around the track they will first engage with the curved surface at the rear end of a lever, moving the opposite or forward end upward, causing its rod or pawl to actuate its part. Then as the roller passes onto the curved portion forward of the fulcrum the forward portion will be moved downward and the rear portion moved upward to actuate its rod, pawl, or the like.

In a machine of the character described it is obvious that a very small engine or similar power will be required to operate the device. The heavy weights serve by gravity as a means for increasing the effective power, and especially as upon once starting the device its momentum will aid in carrying the rollers around the track.

While I have shown a circular track with the rollers having a continuous motion around the same, I may in some instances employ a straight track with a roller or rollers movable back and forth on the same.

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

1. A mechanical power comprising a track, operating-levers pivoted at their centers to the track, the upper edges of said levers at the front and rear of the pivotal point being curved upward and then downward to the ends, and weight-levers movable on said track for engaging with and operating the levers, substantially as specified.

2. A mechanical power comprising a circular track, levers fulcrumed on said track, the fulcrum-point being at the centers of the levers, operating devices attached to the opposite ends of the levers, a center post or standard, arms mounted to rotate on said post or standard, rollers mounted to rotate on the arms and engaging on said track, and a rim attached to the outer ends of the arms and serving as a band-wheel, substantially as specified.

3. In a mechanical power, a track consisting of two concentric sections, spaced apart, levers pivoted between the sections, the piv-

otal points of the levers being at their centers, actuating devices attached to the opposite ends of the levers, the upper surfaces of said levers being curved upward from the
5 centers, and weight-rollers movable on said track for engaging with and operating the levers, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SALVADOR HAYES.

Witnesses:

HARRISON WHITMORE,

JAMES WALLACE CHITWOOD.