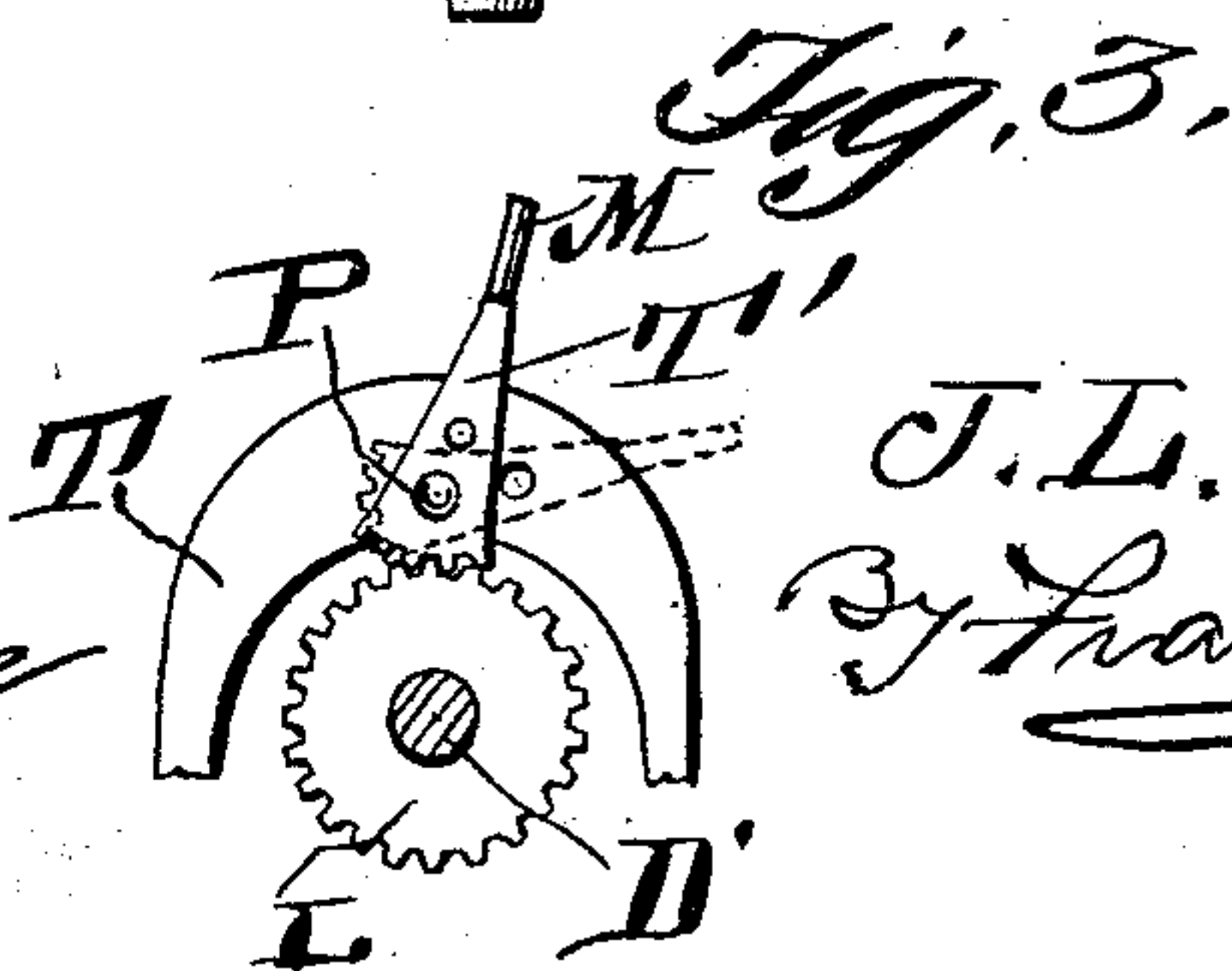
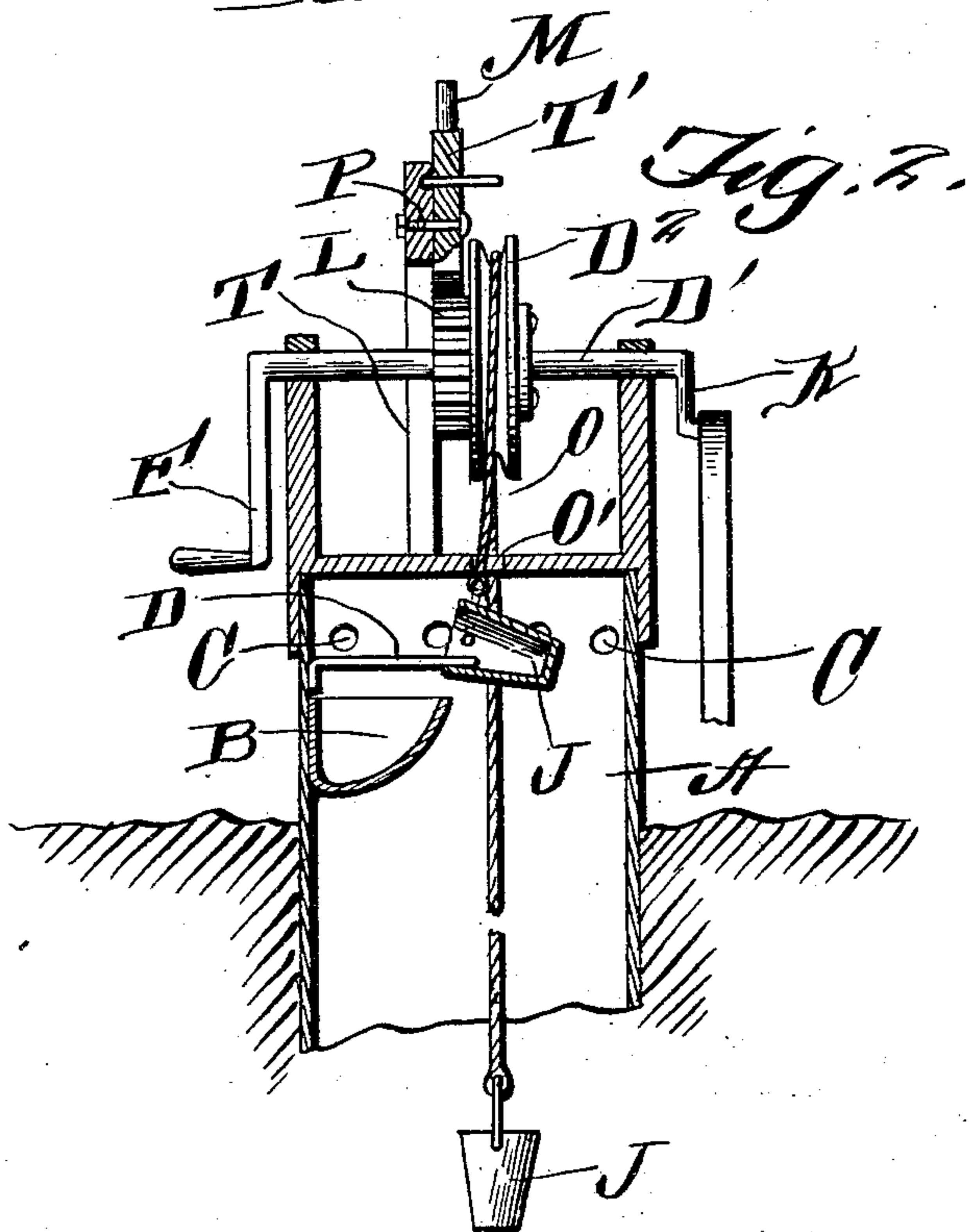
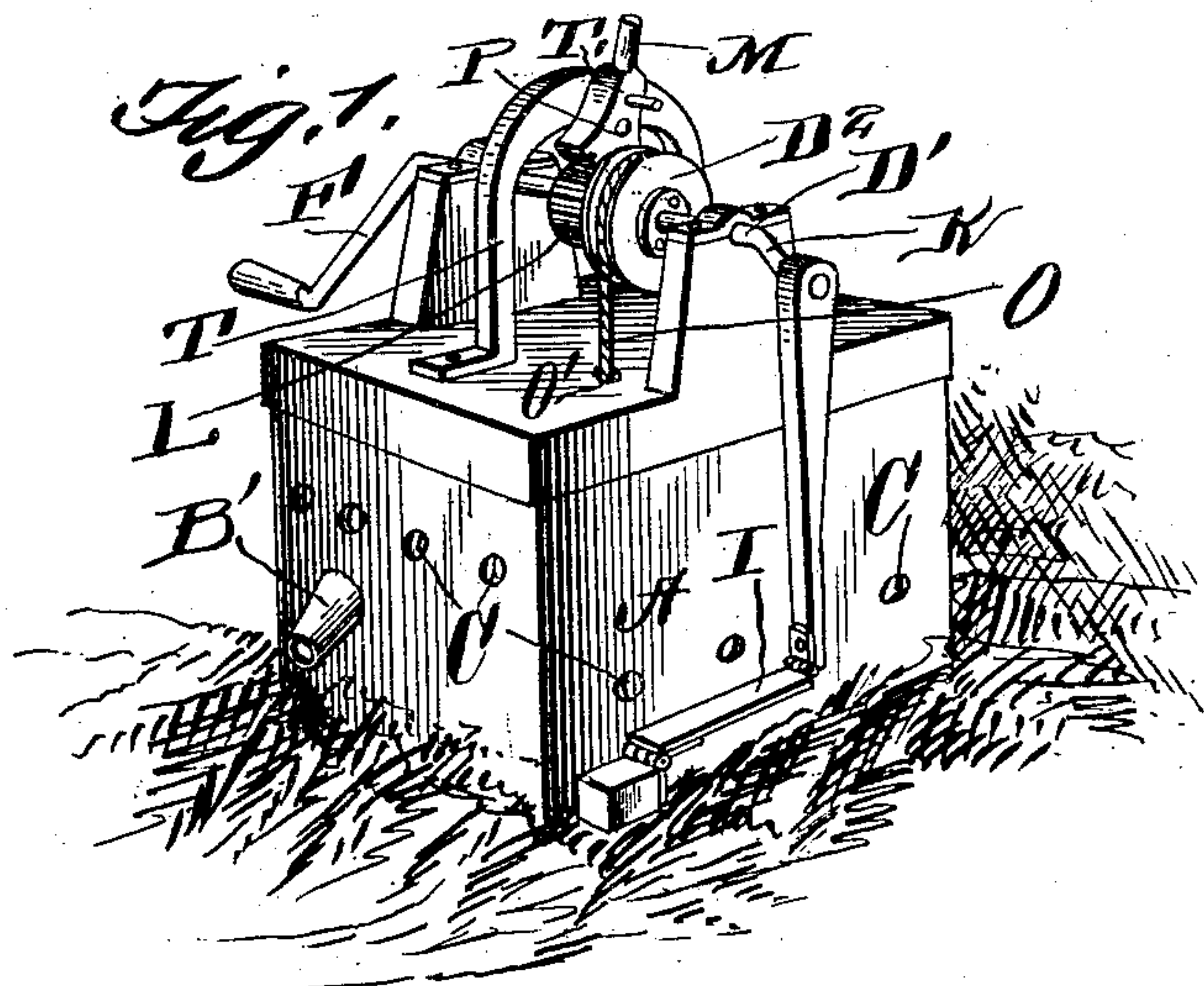


J. L. O. KING.  
WATER ELEVATOR.  
APPLICATION FILED FEB. 20, 1909.

930,295.

Patented Aug. 3, 1909.



Witnesses

*R. A. Boswell*  
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Attorney



# UNITED STATES PATENT OFFICE.

JAMES L. O. KING, OF SENECA, SOUTH CAROLINA.

## WATER-ELEVATOR.

No. 930,295.

Specification of Letters Patent.

Patented Aug. 3, 1909.

Application filed February 20, 1909. Serial No. 479,225.

*To all whom it may concern:*

Be it known that I, JAMES L. O. KING, a citizen of the United States, residing at Seneca, in the county of Oconee and State of South Carolina, have invented certain new and useful Improvements in Water-Elevators; 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 of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in water elevators and the object in view is to produce a simple and efficient apparatus of this nature which is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a perspective view of the well curb, showing parts of the invention in elevation. Fig. 2 is a sectional view showing the hooks adapted to tilt the bucket, and Fig. 3 is a detail view of the attachment mechanism for holding the windlass from rotation.

Reference now being had to the details of the drawings by letter, A designates a well curb having a trough B therein with a spout B' passing through an aperture in the curb. Said well curb is provided with perforations C for suitable ventilation, and D—D designate horizontally disposed bars which are preferably integral with the trough which is made of metal and which extend over the trough and in a downward direction and spaced apart. Mounted in suitable bearings upon the top of the curb is a crank shaft D' upon which a grooved pulley D<sup>2</sup> is fixed. Said shaft is provided with a crank handle F whereby the shaft may be rotated by hand and also by means of a short crank K to which a tread member I is connected and affording means whereby the shaft may be operated either by foot or hand power and, if desired to reduce the friction, suitable ball bearings may be employed in the bearings of the apparatus. A cable or chain O passes about said grooved pulley and extends through apertures O' in the top of the curb

and buckets J are fastened one to each end of the cable or chain. Pivotally mounted upon a pin P carried by the standard T is a segment ratchet member T', the teeth of which are adapted to mesh with the teeth of a gear wheel L which is fixed to the crank shaft. Said segment member has a laterally projecting handle M whereby the same may be rocked upon its pivot and thrown into engagement with said wheel for the purpose of holding the shaft from rotation in one direction or the other.

The operation of the apparatus is as follows:—As the shaft is rotated either by hand or foot power or, if desired, by any form of lever mechanism, one bucket or the other may be drawn from the well into the curb and, as the edge of the bucket comes in contact with one or the other of said horizontally disposed bars, the contents of the bucket will be emptied into the trough. In the event of it being desired to hold the bucket at any suitable location, it may be done by swinging the segment member so as to engage the gear wheel upon the crank shaft. A reverse movement of the shaft will lower one bucket and raise another and the operation may be repeated.

What I claim to be new is:—

A water elevating apparatus comprising a well curb, a trough mounted therein, a fixed horizontally disposed bar projecting horizontally over the edge of said trough and slightly above the same, a crank shaft, a windlass thereon, a gear wheel fixed to said shaft, a bracket mounted over said shaft, a segment member pivotally mounted upon said bracket and having teeth adapted to engage the teeth of said pinion, a pin adapted to pass through an aperture in the segment and engage and hold the segment in a locked position, a rope winding about said windlass, and a bucket fastened to the rope.

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

JAMES L. O. KING.

Witnesses:

J. O. CAMPBELL,  
J. T. LAURENCE.