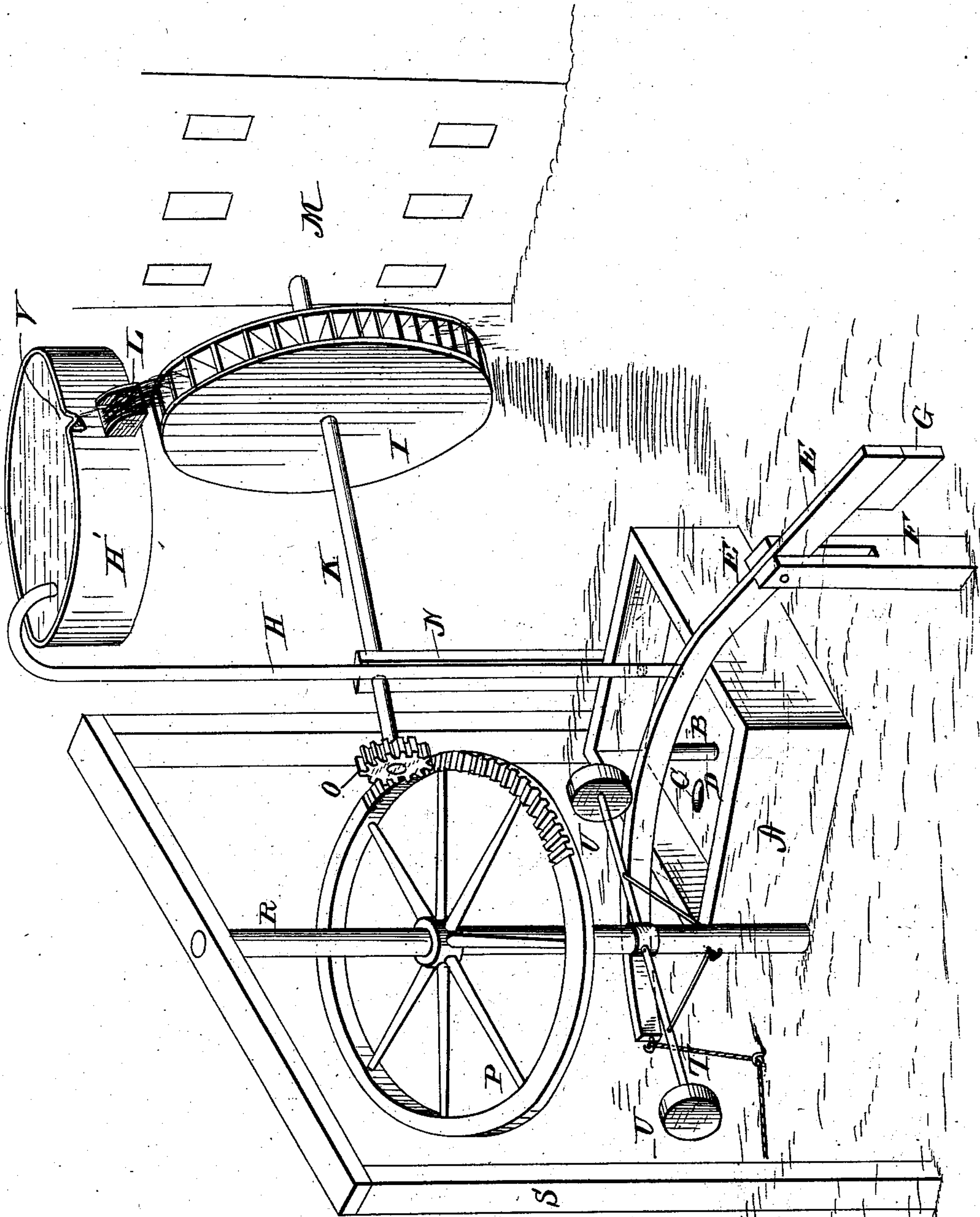


T. LEININGER.

Water-Motor.

No. 224,299.

Patented Feb. 10, 1880.



Witnesses,
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THEOBALD LEININGER, OF WASHINGTON TOWNSHIP, MERCER COUNTY,
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WATER-MOTOR.

SPECIFICATION forming part of Letters Patent No. 224,299, dated February 10, 1880.

Application filed December 2, 1879.

To all whom it may concern:

Be it known that I, THEOBALD LEININGER, of Washington township, in the county of Mercer and State of Ohio, have invented certain
5 new and useful Improvements in Water-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
10 use the same, reference being had to the accompanying drawing, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to an improved water-motor; and it has for its object to provide
15 a means by which, in connection with a prime motor, a volume of water may be elevated and stored in a suitable tank or receptacle, and employed for giving motion to a wheel to
20 transmit power to machinery.

To this end it consists of a submerged pump-chamber provided with suitable inlet-valves, and having a piston the piston-rod of which is connected with an operating-lever,
25 the said pump-cylinder connecting, by means of a suitable eduction-pipe having a check-valve, with a tank located above a water-wheel, the said wheel being mounted on a shaft connected by means of suitable gear-
30 ing with mechanism whereby the operating-lever of the piston-rod may be depressed at intervals, the first water being supplied to the tank by a pump operated in any suitable manner, or by operating the lever connected with
35 the pump-chamber by any suitable power, as more fully hereinafter specified.

The drawing represents a perspective view, showing my improvement, in which the letter
40 A indicates a submerged pump-chamber provided with suitable induction-openings and inwardly-opening valves for the introduction of water.

The letter B represents the piston, which may also be provided with an induction-opening, C, and inwardly-opening valve, to be employed when the pump-chamber is entirely
45 submerged.

The letter D indicates the piston-rod, the

upper end of which is secured to a curved lever, E, which is fulcrumed to a standard, F, and weighted at its short end G to counter-
50 balance the other end.

The letter H indicates the eduction-tube of the pump, which extends upwardly over the edge of a tank or receptacle, H', properly supported above the overshot wheel I, which is
55 mounted on a shaft, K, the tank being provided with a discharge-spout, L, immediately above the buckets of the wheel, so as to direct the water upon the same.

To one end of the shaft K is attached suitable gearing for driving any kind of machinery, the said shaft being extended into the
60 mill-building M in the ordinary manner.

To the opposite end of the shaft, which is
65 journaled in a standard, N, is secured a pinion, O, which intermeshes with the teeth of a beveled wheel, P, which is horizontally mounted upon a vertical shaft, R, having bearings in a frame, S. The said shaft has loosely attached to it the arms T, to the outer ends of
70 which are secured the weighted wheels U, located in such position that when the shaft R is rotated said wheels will alternately pass over the upper edge of the curved lever E and
75 depress it intermittently, elevating or forcing the water up through the induction-tube and into the tank, from whence it flows over the wheel, imparting motion to the same.

In putting the apparatus into operation the
80 water is first supplied to the tank, as before stated, by means of a pump, and when a sufficient quantity of water has accumulated therein it is allowed to escape and flow over the wheel, as before stated.

In order to provide for the overflow of any surplus water, the tank is formed with an
85 overflow-spout, V, at its upper edge.

When the tank becomes empty it can be replenished by operating the lever E by hand
90 or by the rope shown.

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

In combination with a prime motor, the
95 pump-chamber A, its piston B, and lever E,

the shaft R, wheels or weights U, the beveled gear-wheel P, pinion O, and shaft K, the overshot wheel L, and tank H', the latter being adapted to receive and hold a quantity of
5 water to be discharged on the wheel L, for the purpose of turning the same and elevating water in the tube H, substantially as specified.

In testimony that I claim the foregoing I have hereunto set my hand this 2d day of December, 1879.

THEOBALD LEININGER.

Witnesses:

H. J. ENNIS,

CHAS. L. COOMBS.