

W. S. PUCKETT.  
Hydraulic-Motor.

No. 212,500.

Patented Feb. 18, 1879.

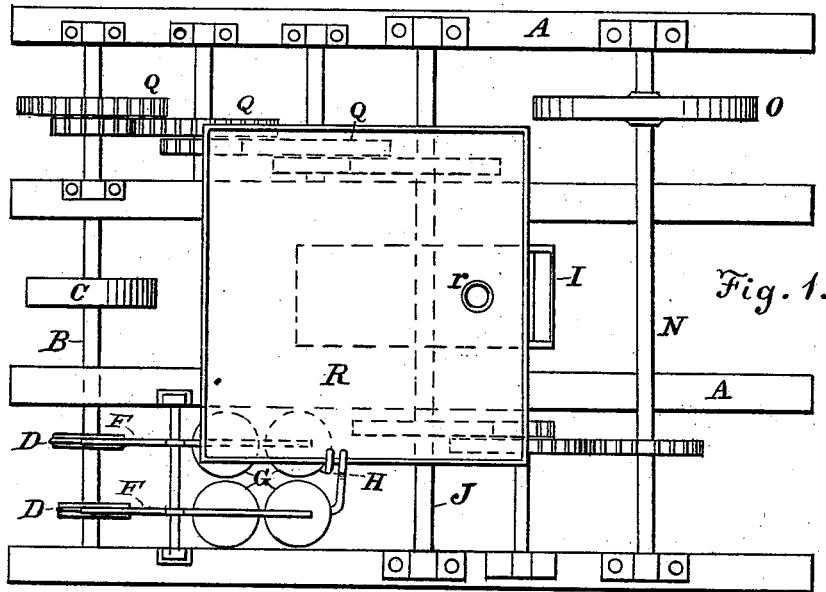


Fig. 1.

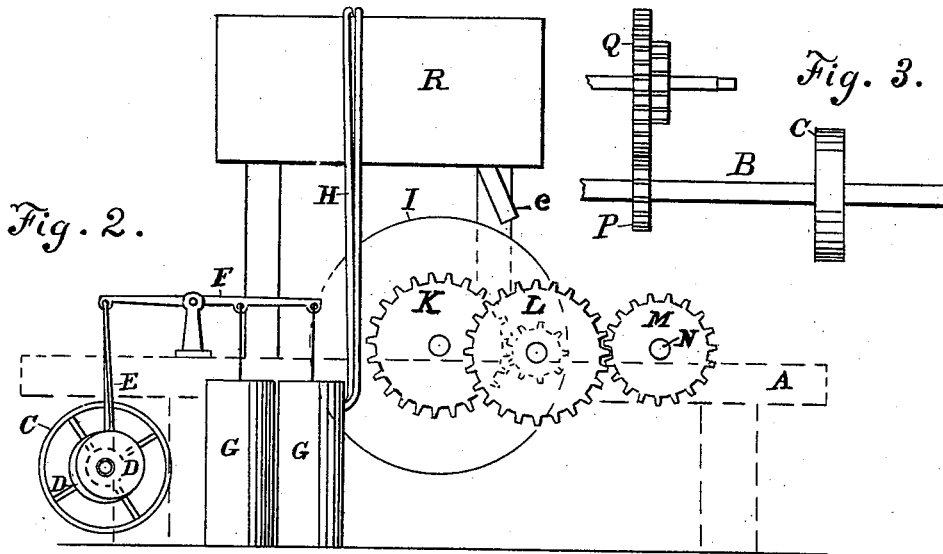


Fig. 2.

Fig. 3.

Witnesses:  
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# UNITED STATES PATENT OFFICE.

WILLIAM S. PUCKETT, OF SUMTERVILLE, ALABAMA.

## IMPROVEMENT IN HYDRAULIC MOTORS.

Specification forming part of Letters Patent No. **212,500**, dated February 18, 1879; application filed July 27, 1878.

*To all whom it may concern:*

Be it known that I, W. S. PUCKETT, of Sumterville, in the county of Sumter and State of Alabama, have invented certain new and useful Improvements in Hydraulic Motors; and I do hereby declare that the following is a full, clear, and exact description of the invention, which 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 letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in hydraulic motors; and consists, in conjunction with a prime motor, imparting a motion of rotation to a shaft, of mechanism, hereinafter set forth, for operating a series of pumps conveying water to a tank over a water-wheel, which receives the water from the tank, and, through intermediate gearing, causes a more rapid rotation of the shaft from which the power is transmitted to any mechanism than would be attained by the employment of the motor alone, whereby a motor of less power may be employed, with a consequent lessening of expense, as hereinafter more fully set forth.

Figure 1 is a plan or top view. Fig. 2 is a side elevation. Fig. 3 is an end view, showing certain details of the mechanism detached.

In the accompanying drawings, A represents the frame of the machine, in which is journaled the shaft B, provided with the wheel C, which receives a band from a steam-engine or other motor, (not seen in the drawings,) for imparting a motion of rotation to the shaft.

D D represent eccentrics on the shaft B, having grooves for the reception of the links E, bent into the grooves at their lower ends, and pivoted, at their upper ends, to the outer ends of the rods or walking-beams F, to which are attached the piston-rods of a series of pumps, G G, which convey water through the pipes H H into a tank, R, provided with an

aperture, r, in its bottom, having a pipe, c, which conveys the water to the buckets of a water-wheel, I, on the shaft J, journaled in the frame, and provided with a pinion, K, which, through an intermediate gear, L, and gear M on the shaft N, gives motion to the latter.

The shaft N is provided with a fly-wheel, O, around which a band is passed, to transmit motion to the desired machinery.

The shaft B, to which a motion of rotation is imparted by the prime motor, is also provided with a pinion, P, which, through a series of multiplying-gears, Q Q, imparts motion to the shaft of the water-wheel.

By this construction it will be seen that a prime motor of little power can be employed to impart motion to the shaft N, which transmits the power to any machine, the revolution of the water-wheel shaft being increased by the fall of water on the wheel.

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

1. In combination with a prime motor imparting a motion of rotation to the shaft B, the multiplying gear-wheels Q Q, shaft J, provided with pinion K, multiplying-gear L, and shaft N, for transmitting the power, provided with the gear M and fly-wheel O, substantially as described, and for the purpose set forth.

2. In combination with a prime motor, the shaft B, provided with the pinion P and eccentrics D D, with the mechanism for operating the pumps, the pipes H, tank T, water-wheel I, multiplying-gears Q L, and wheel O, substantially as described, and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WILLIAM S. PUCKETT.

Witnesses:

W. H. ORMOND,  
J. J. DIXON.