

T. WILMINGTON.

Pumps.

No. 146,853.

Patented Jan. 27, 1874.

Fig. 1.

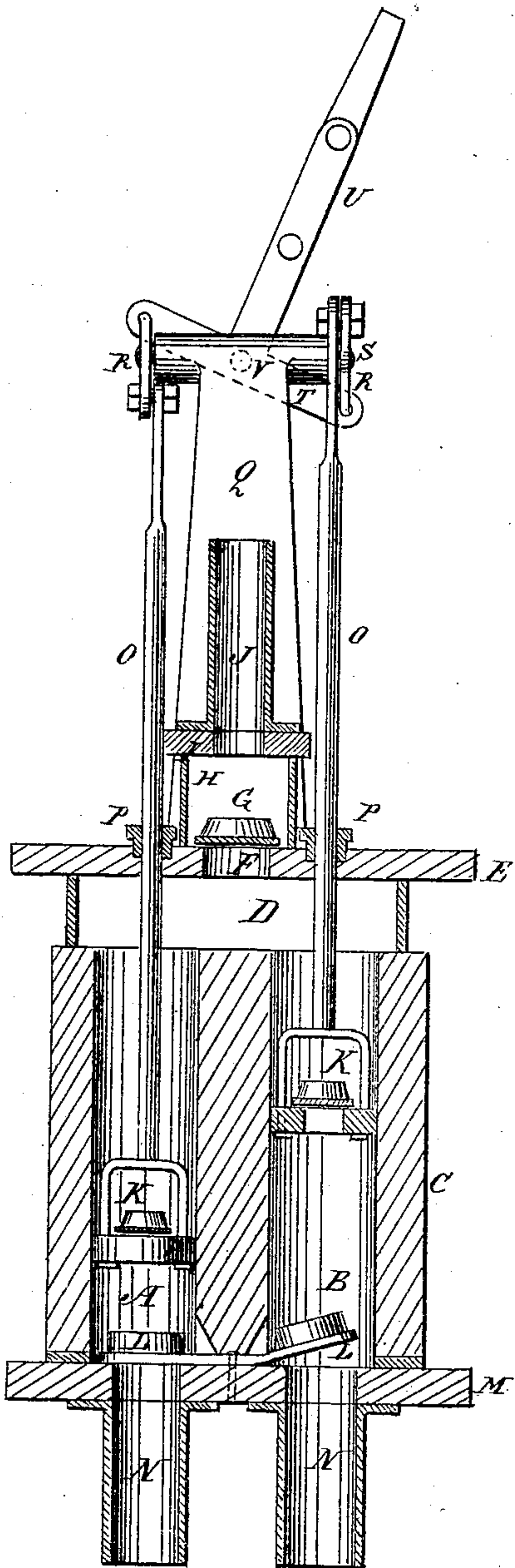
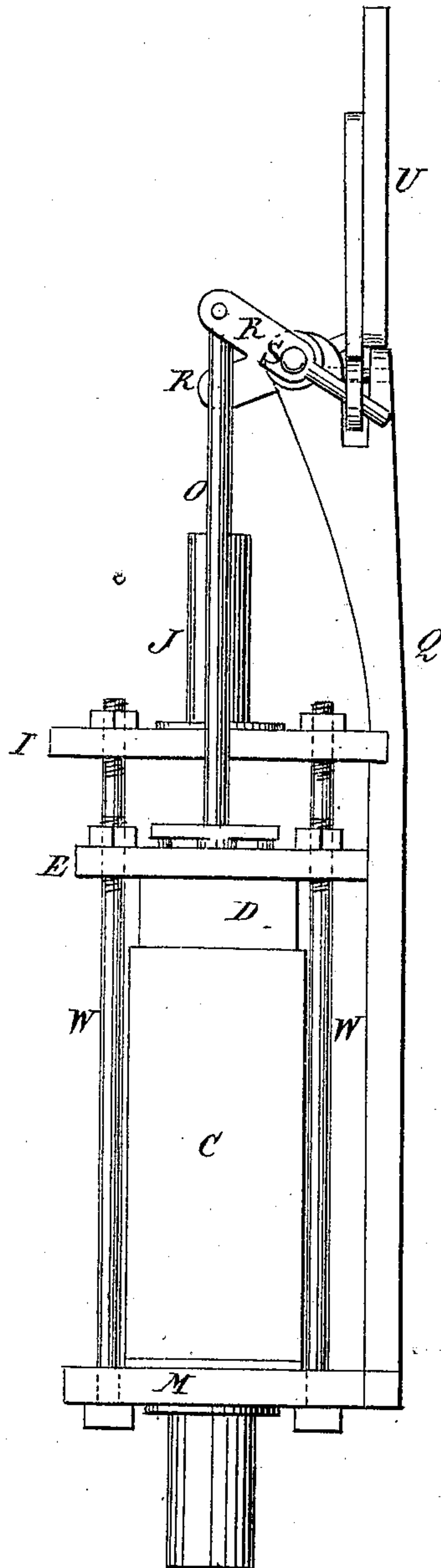


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE

THOMAS WILMINGTON, OF OSSIAN, INDIANA.

IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. **146,853**, dated January 27, 1874; application filed October 18, 1873.

To all whom it may concern:

Be it known that I, THOMAS WILMINGTON, of Ossian, in the county of Wells and State of Indiana, have invented a new and useful Improvement in Pumps, of which the following is a specification:

The invention will first be fully described, and then pointed out in the claim.

In the accompanying drawing, Figure 1 represents a vertical section of the pump, taken on the line *x x* of Fig. 3. Fig. 2 is a side view.

Similar letters of reference indicate corresponding parts.

This is a double-acting lifting-pump, having two cylinders, A and B, made in the block of wood C, with a metallic water-chamber, D, above the cylinders, or resting on the block C. E is a plate on top of the chamber, through which is a valve-orifice, F, which is closed by the valve G. Above the valve G is another metallic chamber, H, which is covered by the plate I. J is the delivery-pipe, which is attached, by means of a flange, to the plate I. K K are the valve-buckets. L L are the lower valves, the seats of which are on the lower

plate, M, to which plate the induction-pipes N N are attached. These pipes extend to the water. O O are the bucket-rods. These rods pass through stuffing-boxes P P in the upper plate, E, and extend up to the top of the stand Q, where they take hold of the ends of two vibrating bars, R R. The bars work on the pivot-rod S, which rod passes horizontally through the top of the stand Q. The ends of these bars extend back from the pivots, and enter loosely the ends of cross T of the working lever U. The working lever is vibrated on the pivot V in the top of the stand Q, and motion is imparted to the pistons thereby.

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

The combination of vibrating bars R R and cross and lever V U, as and for the purposes described.

THOMAS WILMINGTON.

Witnesses:

THOS. H. MCCORMICK,
W. B. MILLER.