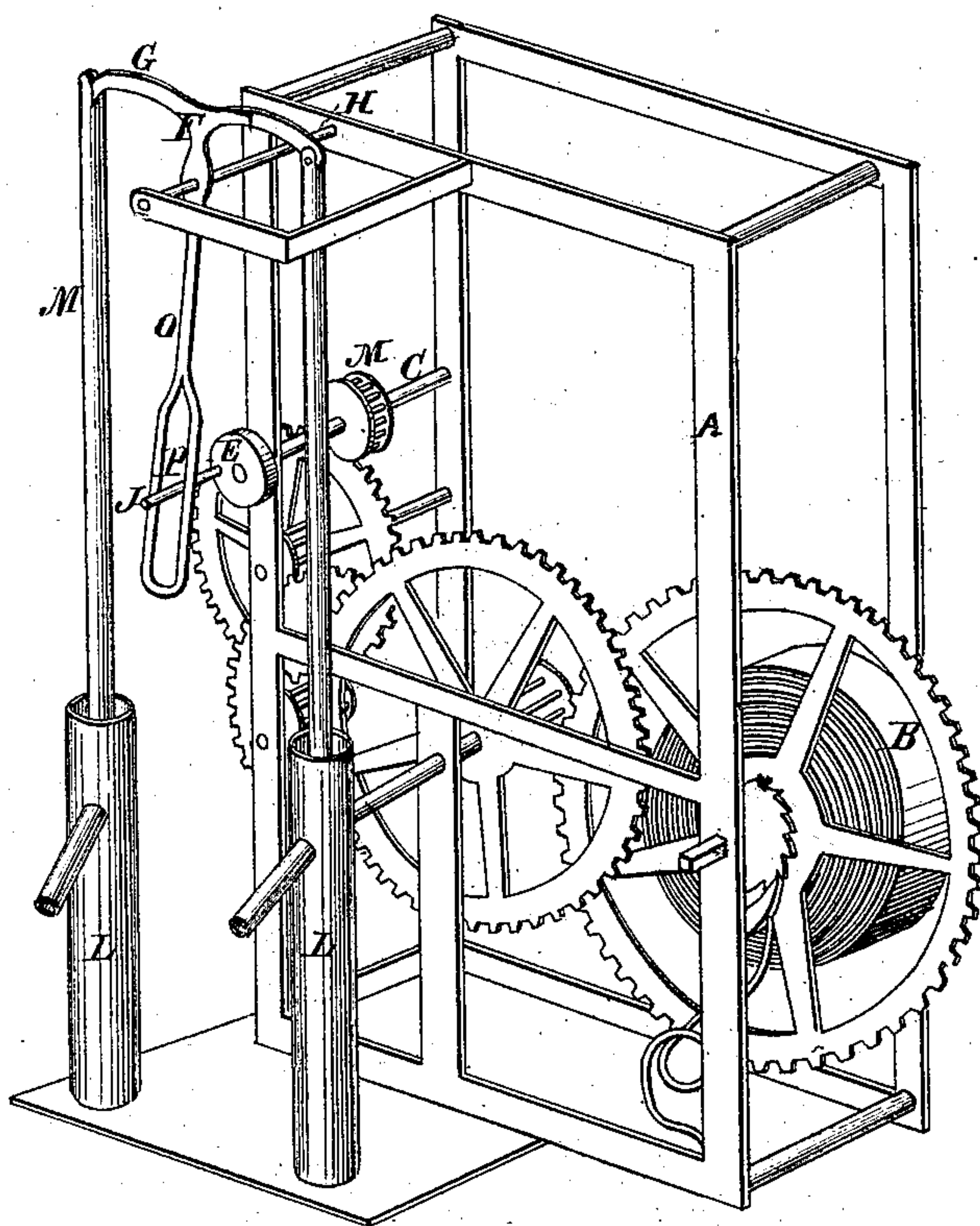


A. L. HUNSAKER.  
Pump Operated by Spring or Weight.

No. 197,854.

Patented Dec. 4, 1877.



*Attest.*

*Geo. H. Strong.*  
*Frank A. Brooks.*

*Inventor.*

*A. L. Hunsaker.*  
*By his Atty's*  
*Dewey & Co*

# UNITED STATES PATENT OFFICE.

ARCHIBALD L. HUNSAKER, OF HUNSAKER, CALIFORNIA.

## IMPROVEMENT IN PUMPS OPERATED BY SPRINGS OR WEIGHTS.

Specification forming part of Letters Patent No. **197,854**, dated December 4, 1877; application filed July 30, 1877.

*To all whom it may concern:*

Be it known that I, ARCHIBALD L. HUNSAKER, of Hunsaker, county of Tulare, and State of California, have invented Improvements in Pumps; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing.

My invention relates to the employment of a T-shaped lever for operating two pumps by a train of gears which receive their power from a spring or weight.

Referring to the accompanying drawing, in which the figure is a perspective view, let A represent a frame, inside of which a train of gears is mounted. Power for driving the train of gears is furnished by a spring, B, in the usual manner of applying spring-power. One end of the shaft C, upon which the last gear-wheel of the train is secured, projects outside of the frame A, and on its extremity is secured a crank-wheel, E. F is a T-shaped lever, which is attached to the frame A, so that its fulcrum is at some point between the middle of its vertical leg or lever O and the projecting arms at its upper end. A pump, L, is located directly below the extremity of each of the arms G H, and the piston-rod of each

pump is connected with the extremity of the arm directly above by a pitman, M. The lower end of the vertical lever O is provided with a vertical slot, P, and the wrist-pin J of the crank-wheel E enters the slot, so that when the shaft C is set in motion by the train of gears the crank-wheel will impart a reciprocating motion to the T-shaped lever, and thus operate the pumps L alternately.

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

The T-shaped lever attached to the frame A, as described, and having the lower end of its vertical arm O provided with a slot, P, with which the crank-pin J engages, and having the piston-rod of a pump, L, attached to each of its horizontal arms, the several parts relatively arranged with each other, and in connection with a train of gears and spring-power, substantially as above described.

In witness whereof I have hereunto set my hand and seal.

ARCHIBALD L. HUNSAKER. [L. S.]

Witnesses:

R. K. WESTON,  
I. E. SHUEY.