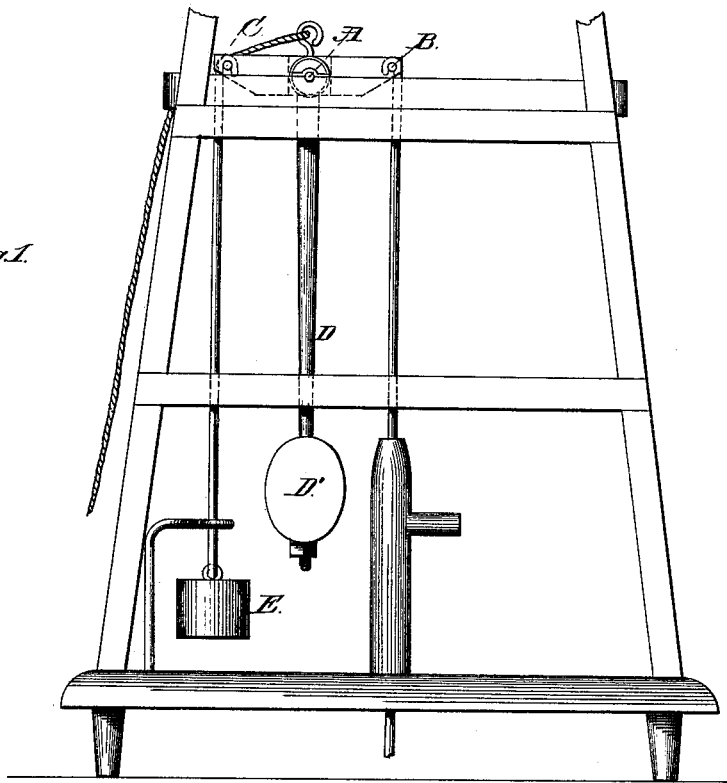


A. H. LOW.  
Machine for Pumping.

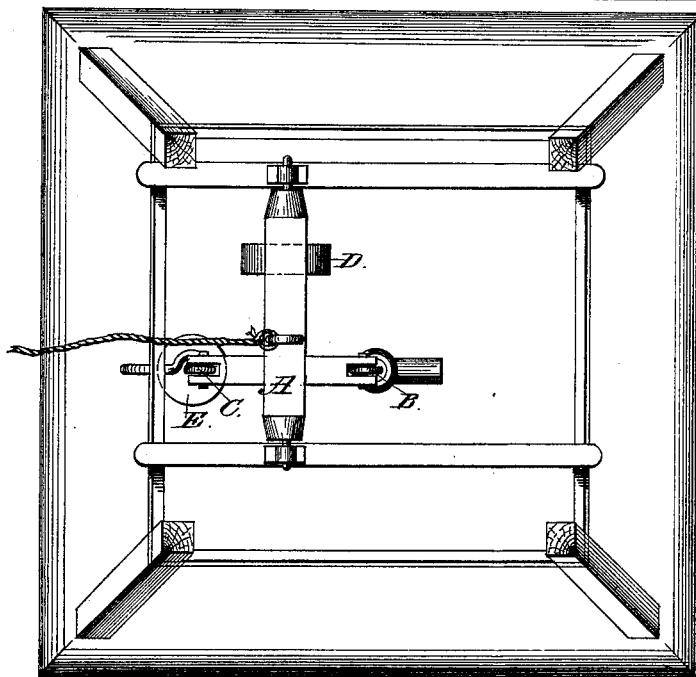
No. 202,841.

Patented April 23, 1878.

*Fig. 1.*



*Fig. 2.*



*Attest:*  
*N. M. Ernal.*  
*M. Gardner*

*Inventor:*  
*Alvin H. Low*

# UNITED STATES PATENT OFFICE.

ALVIN H. LOW, OF BULLION, PENNSYLVANIA.

## IMPROVEMENT IN MACHINES FOR PUMPING.

Specification forming part of Letters Patent No. **202,841**, dated April 23, 1878; application filed January 18, 1878.

*To all whom it may concern:*

Be it known that I, ALVIN H. LOW, of Bullion, in the county of Venango, in the State of Pennsylvania, have invented a new and Improved Machine for Pumping Oil, Water, or other Fluids from Wells; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and the letters of reference marked thereon.

The nature of my invention consists in the following-described apparatus or machine, consisting of an axle or rock-shaft, levers, oscillating pendulum, and balance-weight, designated by the letters A, B, C, D, and E in the accompanying drawing, for pumping oil or other fluids from wells.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The axle or rock-shaft A, I fix upon supports arranged at a desired height for the purpose. To the rock-shaft A, I make fast the levers B and C, on opposite sides. At right angles with the levers B and C, I make fast to the rock-shaft A the suspended lever or oscillating pendulum D. I then connect the lever B with the sucker-rod, which is attached to the pump-valve or apparatus in the well. To the lever C, I connect the weight E, to coun-

terbalance in a greater or less degree the weight of the sucker-rods and fluid suspended from the lever B. I then make a weight fast to the suspended lever or pendulum D, to perfect the balance between the levers B and C, and to regulate the time and motion in the operation of pumping. In some cases the balance-weight D may be dispensed with.

I now apply the power at any convenient point, as upon the rock-shaft A, the pendulum D, or the weight E, sufficient to overcome the suction of the valves and the friction caused by the working of the machine; and the pumping is thus effected.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The counter-balance E, in combination with the axle A, lever-pendulum D, levers B and C, with sucker-rods of pump, substantially in the manner and for the purpose herein set forth and shown.

2. The combination of the rock-shaft A, the levers B and C, the balance-weight E, and balance-lever pendulum D, with sucker-rods of pump, substantially in the manner and for the purpose herein set forth and shown.

ALVIN H. LOW.

Witnesses:

W. A. STEWART,  
I. C. ANDERSON.