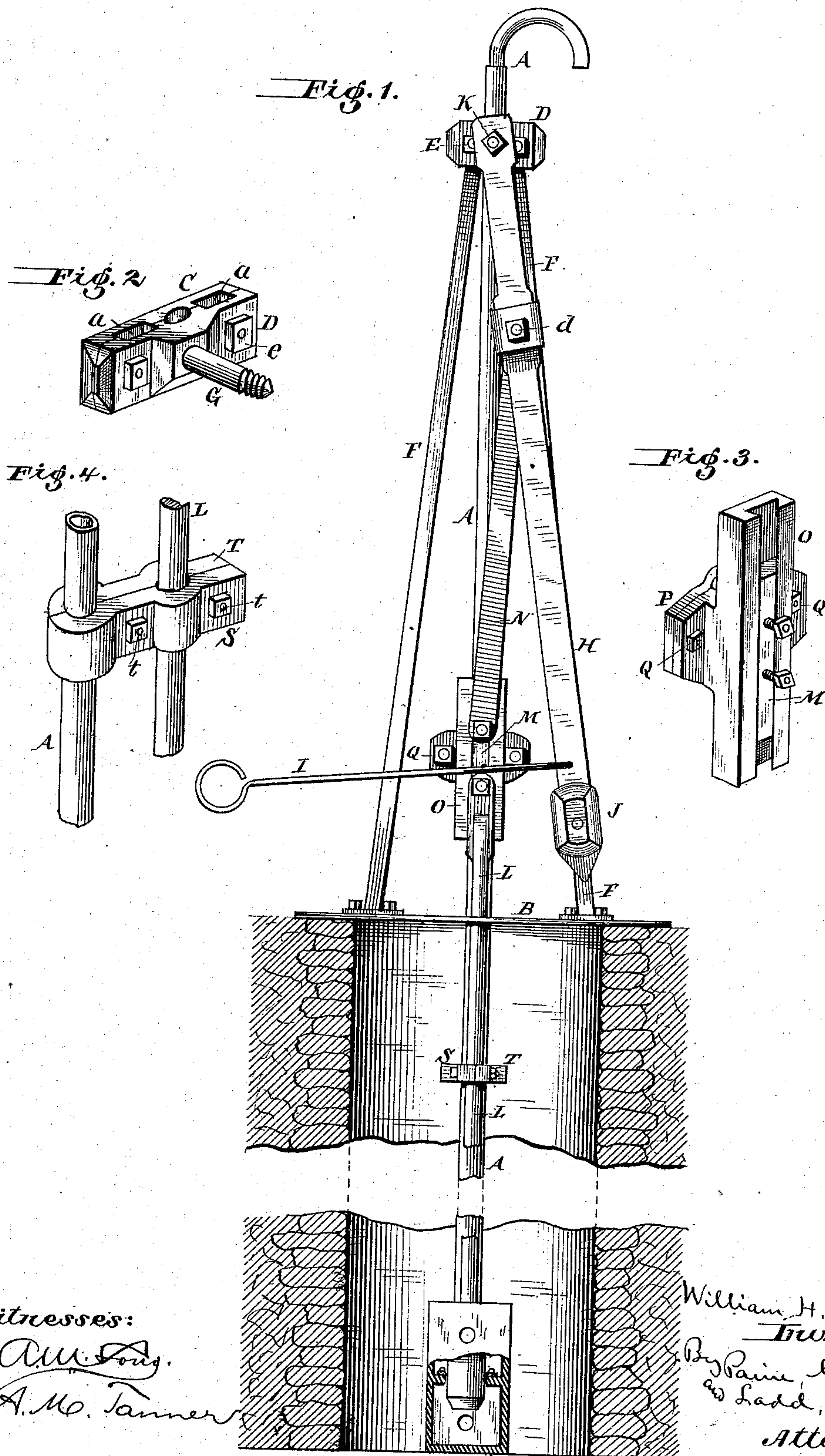


(No Model.)

W. H. CLOUD.  
Pump.

No. 238,026.

Patented Feb. 22, 1881.





# UNITED STATES PATENT OFFICE.

WILLIAM H. CLOUD, OF FREMONT, OHIO.

## PUMP.

SPECIFICATION forming part of Letters Patent No. 238,026, dated February 22, 1881.

Application filed December 17, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. CLOUD, a citizen of the United States, residing at Fremont, in the county of Sandusky and State of Ohio, have invented certain new and useful Improvements in Pumps; 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 use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

The object of the present invention is to improve the brake or lever mechanism for force-pumps forming the subject-matter of a patent granted to me on the 10th day of February, 1880, No. 224,389.

The invention consists in a novel construction and combination of parts, which will be hereinafter more fully described, and then set forth in the claims.

In the drawings, Figure 1 is a side elevation of the operating mechanism of a pump mounted on a platform and connected with the water-discharge tube. Fig. 2 is a detail view of the top clamp having a journal or fulcrum-pin for receiving the pendulum-lever. Fig. 3 exhibits the grooved block and slide fitted therein for receiving the upper end of the piston-rod. Fig. 4 shows the guide-clamp for the piston-rod, fitted to the water-discharge tube below the platform.

The discharge-tube A is connected at its lower end with a suitable pump cylinder or chamber containing means for forcing the water into said tube. In the present instance I represent a submerged pump-cylinder containing a piston of a peculiar form, as is shown in my Patent No. 224,389. I may, however, combine my mechanism for operating the piston with any other form of pump. The discharge-tube A extends through the platform or well-cover B, and rises from the same to a sufficient height to receive and support the operating mechanism, the upper end of the tube being curved in the customary manner to properly discharge the water.

To the upper end of the discharge-tube are applied two clamp-plates, C D, the contiguous faces of which are provided with concave de-

pressions to receive the discharge-tube. These clamp-plates are secured to the tube by means of transverse screws or bolts E passing through their outer ends. Seats or recesses a, formed in the adjoining faces of the clamp-plates at each side of the discharge-tube, serve to receive the upper ends of wooden or other brace rods or bars, F, which rise from the platform B. These braces are secured in the seats or sockets formed in the clamp-plates by means of the screws or bolts E, which serve to fasten the clamp-plates to the discharge-tube. One of said clamp-plates is provided with an outwardly-projecting arm or journal, G, which receives the upper end of the pendulum-lever H, and on which said lever oscillates when its lower end is pulled by a draw rod or cord, I.

The pendulum-lever is generally made of wood, and when so constructed it has a metallic weight, J, applied to its lower end. The outer end of the fulcrum arm or journal G is screw-threaded, and a nut, K, is applied thereto for retaining the lever in place.

The piston-rod L is connected with the pendulum-lever by means of the slide M and the pitman or connecting-rod N. The slide M is fitted into a vertically-grooved block, O, which is secured to the discharge-tube by means of a clamp-plate, P, and screws or bolts Q, passing through said plate P and ears or flanges of the block O. The upper end of the piston-rod is bolted to the slide M, and the pitman N is attached to said slide by a top bolt or other device on which it can oscillate, and its upper end is connected with the pendulum-lever by means of a screw or pivot pin, d.

It will readily be perceived that by oscillating the pendulum-lever the pitman will communicate a reciprocating movement to the piston-rod and piston for forcing the water through the discharge-tube.

The piston-rod is guided below the platform or well-cover by means of a clamp consisting of two plates, S T, the adjacent faces of which are shaped so as to encircle the discharge-tube. The inner faces of the outer ends of the plates are hollowed out, or said ends are curved so as to form an eye through which the piston-rod can freely slide. Screws t pass through the flat portions of the plates S T and clamp the same to the discharge-tube.

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

5 1. A sectional clamp having a pivot-arm formed thereon, in combination with the discharge-tube encircled by said clamp and pendulum-lever fitted on the pivot-arm, as and for the purpose set forth.

10 2. A clamp having the faces of its component sections provided with seats or sockets, the standards or braces fitted into said seats, and screws or bolts passing through said clamp-sections and standards, in combination with the platform or well-cover and discharge-tube,  
15 as herein set forth.

3. The combination of the grooved block, the clamp-plate and screws, and the slide fitted into said block with the piston-rod, the pendulum-lever, and the discharge-tube, all as and for the purpose set forth. 20

4. The combination of the lower guide and clamp with the piston-rod and discharge-tube, as and for the purpose herein set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. CLOUD.

Witnesses:

ALFRED H. RICE,  
JOHN SHUMAN.