

(No Model.)

P. A. MYERS.
Force-Pump.

No. 228,103.

Patented May 25, 1880.

Fig: 1.

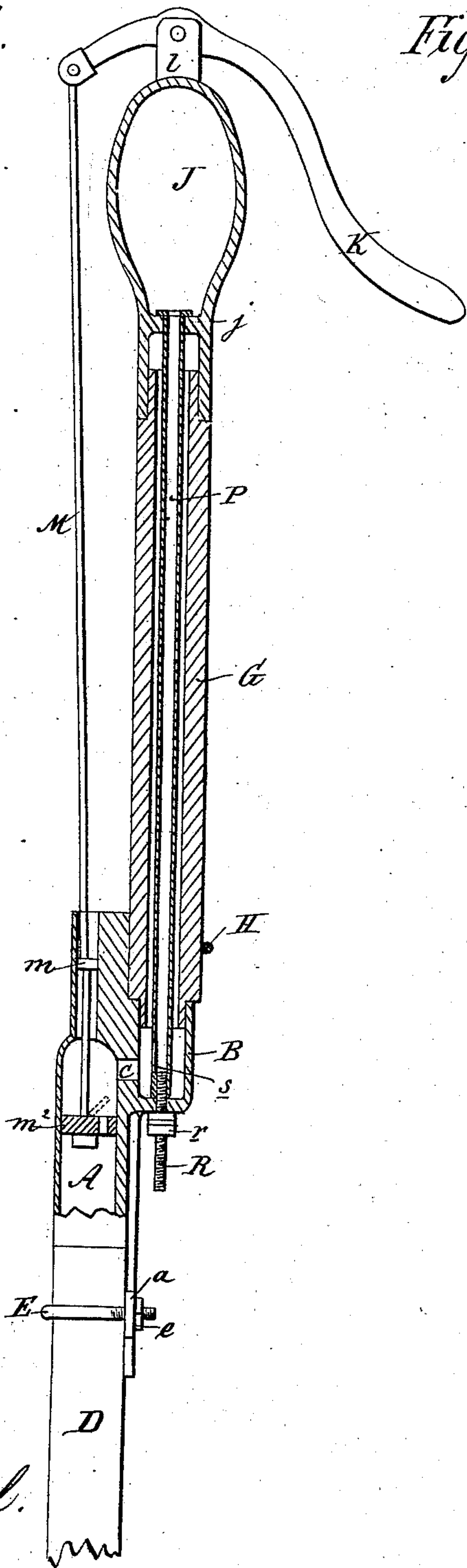
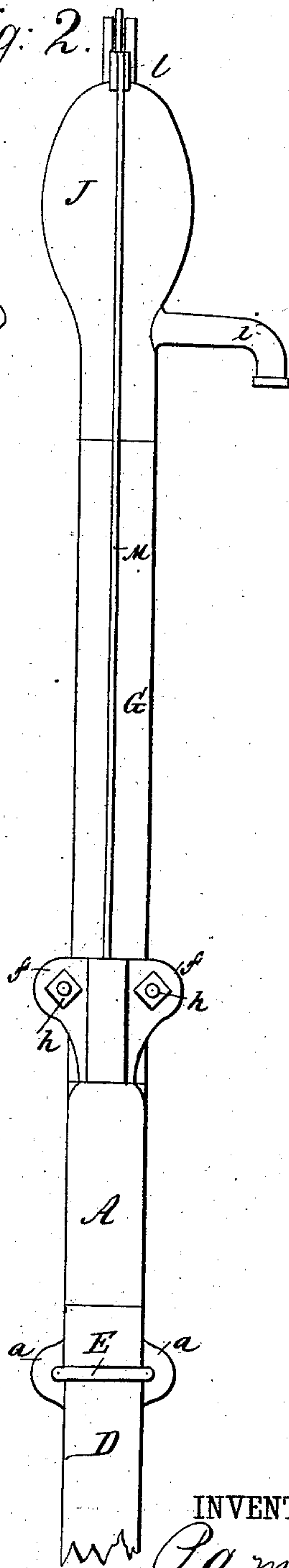


Fig: 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

PHILIP A. MYERS, OF ASHLAND, OHIO.

FORCE-PUMP.

SPECIFICATION forming part of Letters Patent No. 228,103, dated May 25, 1880.

Application filed March 18, 1880. (No model.)

To all whom it may concern :

Be it known that I, PHILIP A. MYERS, of Ashland, in the county of Ashland and State of Ohio, have invented a new and useful Improvement in Force-Pumps, of which the following is a specification.

My invention consists in a novel construction, arrangement, and combination of the various parts of a pump, whereby simplicity, economy, and efficiency are obtained, as hereinafter particularly described.

In the accompanying drawings, Figure 1 represents a central vertical longitudinal section of a pump embodying my improvements. Fig. 2 is an exterior view at right angles to Fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the pump-cylinder, which is formed with a lateral extension, B, communicating therewith by a port or passage, *c*. These parts are made of metal and in one piece.

D represents the suction-pipe, which is made of wood, and is inserted in the lower end of the cylinder A, and is secured thereto by means of a staple, E, surrounding the pipe D, and passing through lugs *a a* on a plate formed with the cylinder, and fastened by nuts *e*.

G represents the discharge-pipe, which is made of wood, and is inserted in the upper end of the extension B, and is secured in place by means of a staple, H, surrounding it and passing through lugs *f f*, formed on the upper part of the cylinder, and fastened by nuts *h*.

J represents the air-chamber, provided with a spout, *i*. The air-chamber is made of metal,

and rests on the upper end of the discharge-pipe G, which is inserted therein.

K is the pump-lever, which has its fulcrum on a standard, *l*, formed on the top of the air-chamber J. M is the pump-rod, carrying two pistons, *m m*², which work in the cylinder A.

P is a metal pipe, having its upper end flanged, and resting in a seat, *j*, in the bottom of the air-chamber J, just over the upper end of the discharge-pipe G. The lower end of the pipe P has attached to it a screw-bolt, R, which passes through the bottom of the extension B, and is fastened by a nut, *r*. In the pipe P is a port or passage, *s*, opposite to and communicating with the port or passage *c*.

The various parts being secured together, as shown and described, the wooden discharge-pipe G serves also as the pump-stock, and the metal pipe P serves also as a rod or bolt for holding the cylinder and extension, the discharge-pipe, and the air-chamber firmly and securely together.

When the pump is in use the water passes from the suction-pipe D into the cylinder A, and from thence through the ports *c* and *s* up the pipe P to the air-chamber J.

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

The combination of the cylinder A, extension B, pipe P, and ports *c* and *s* with the pipe G and air-chamber J, as shown and described, for the purpose specified.

PHILIP A. MYERS.

Witnesses:

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