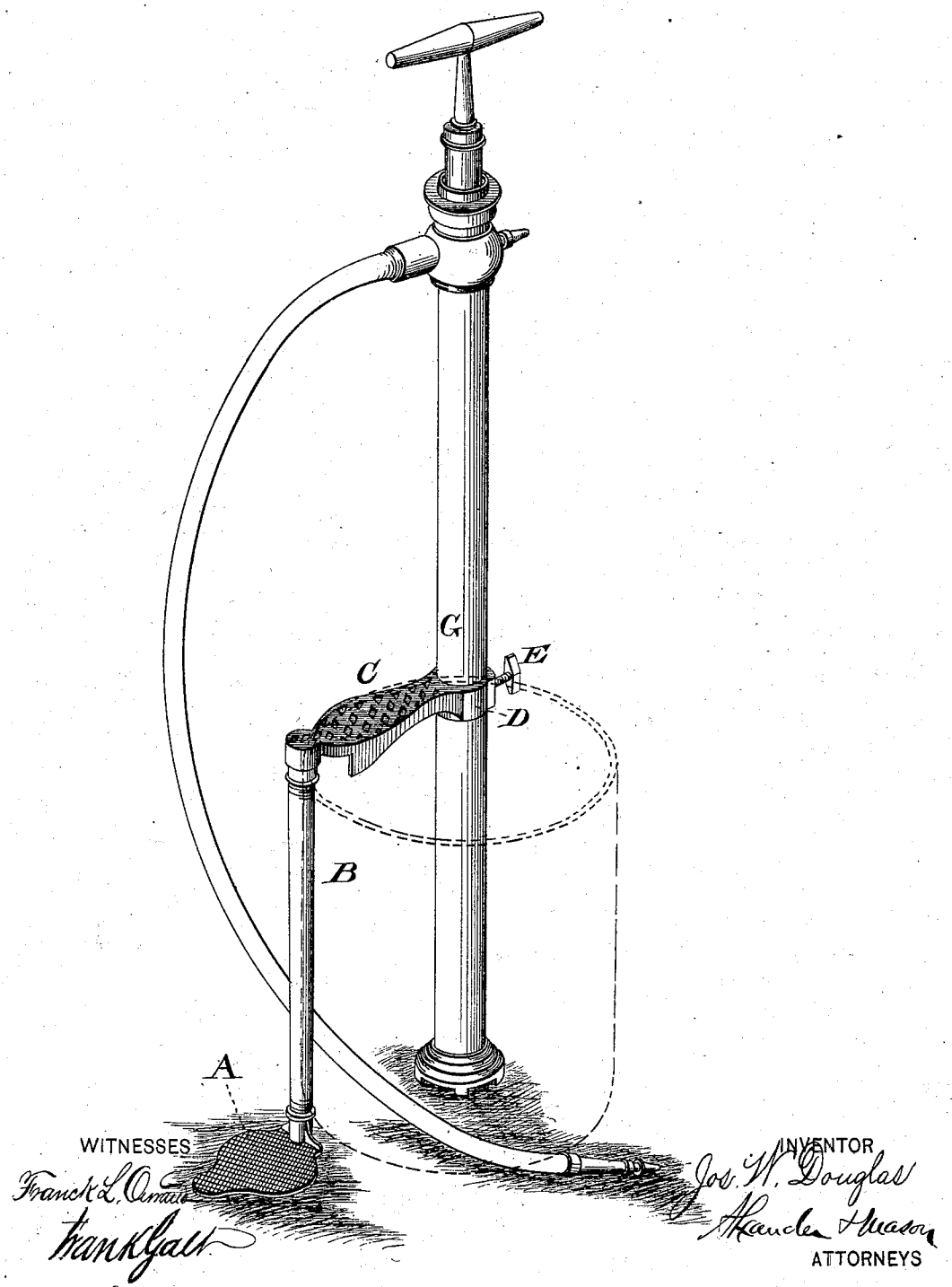
J. W. DOUGLAS.

PORTABLE-PUMP.

No. 192,979. Patented July 10, 1877.



WITNESSES

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UNITED STATES PATENT OFFICE.

JOSEPH W. DOUGLAS, OF MIDDLETOWN, CONNECTICUT, ASSIGNOR TO W. AND B. DOUGLAS, OF SAME PLACE.

IMPROVEMENT IN PORTABLE PUMPS.

Specification forming part of Letters Patent No. **192,979**, dated July 10, 1877; application filed June 13, 1877.

To all whom it may concern:

Be it known that I, JOSEPH W. DOUGLAS, of Middletown, in the county of Middlesex, and in the State of Connecticut, have invented certain new and useful Improvements in Portable Pumps; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, making a part of this specification.

My invention relates to hand-pumps of that class which are held steady for operation by placing the foot on a foot-piece; and it consists in a stirrup standing on a level with the ground, and having the pump-cylinder so arranged as to be adjusted to said stirrup for the purpose of regulating its height for convenience of the operator, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a perspective view of my invention.

A represents a foot-piece of any suitable construction, from the end of which extends a post or shaft, B, vertically upward for a suitable distance.

On the upper end of this shaft or post is placed an arm, C, extending horizontally from the same. This arm forms at its outer end a stirrup or clamp, D, through which is passed the cylinder G of an ordinary hand-pump, said cylinder being adjusted in the stirrup up and down, and held at any point desired by a set-screw, E, thus admitting of regulating the height of the pump for convenience of the operator.

The foot-piece that supports the pump thus stands on the level of the ground with the end of the pump-cylinder in the pail.

I am aware that an adjustable foot-piece has been used with this class of hand-pumps; but in such case as known to me the operator was compelled to stand with one foot on top of the pail in a very hard position.

This is obviated by my invention where the foot-piece stands on the level of the ground, so as to afford ease to the operator; and the pump also made adjustable in the stirrup.

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

The combination of the foot-piece A with rigid post B, and the arm C, projecting rigidly from the post, and provided with a clamp to form the stirrup in which the pump cylinder may be adjusted up and down, substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of June, 1877.

JOS. W. DOUGLAS.

Witnesses:

JNO. M. DOUGLAS,

FRED. E. GIBBONS.