

D. C. Owen,

Pump.

No. 82,885.

Patented May 11, 1869.

Fig. 1.

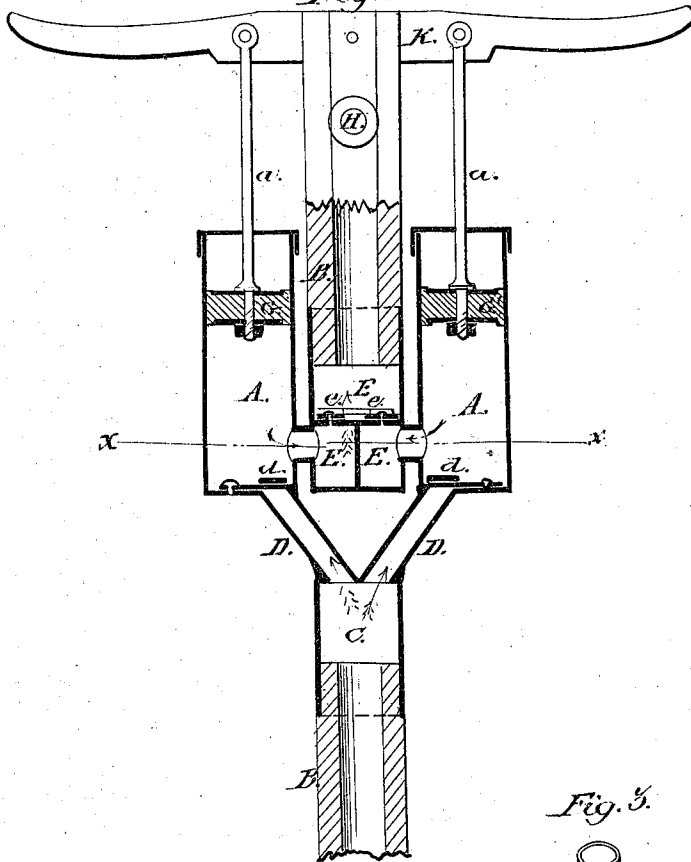


Fig. 2.

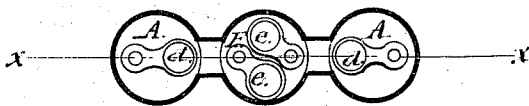
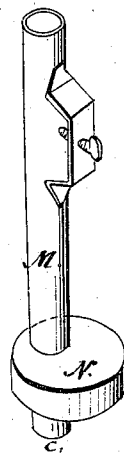


Fig. 3.



Witnesses:
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United States Patent Office.

D. C. OWEN, OF ADAMS COUNTY, ILLINOIS.

Letters Patent No. 89,885, dated May 11, 1869.

IMPROVEMENT IN PUMPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, D. C. OWEN, of Adams county, in the State of Illinois, have invented certain Improvements in Pumps, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a sectional view.

Figure 2 is a top sectional view on the line *x-x*.

Figure 3 is a force-pump attachment.

My invention has for its object to provide a pump, which will supply a large amount of water with very little labor.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings—

A A are cylinders;

D D are connecting-pipes;

E E are connecting-chambers;

C F are stock-sockets; all constructed of iron, or any other suitable metal, and cast in one piece, thus preventing liability to leakage.

The pistons G and G' are worked in the cylinders A A, by means of the rods *a a* and lever K.

On the piston being raised, the water is raised in the direction indicated by the arrows through C and

D, and is admitted, by means of the valve *d*, into the cylinder A.

When the piston descends, the valve D closes, and the water is forced into the chambers E, and thence, through valve *e*, into the stock B, and is discharged at H.

The pistons G and G', acting alternately, keep up a constant, undiminished supply of water.

The addition of the pipe seen in fig. 3, in place of the stock B, creates a force-pump, the air-chamber being formed between the cap N and the bottom of the pipe C.

Four or more cylinders may be arranged around the common barrel, without departing from the spirit of my invention.

The metallic portion of the pump may be in different pieces, fastened together, though to have it cast in one piece is preferable.

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

The stock-sockets C F, connecting-pipes D D, cylinders A A, pistons G G', combined with the valves *d d*, *e e*, and chambers E E, all arranged and operated substantially as and for the purpose described.

Witnesses:

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