

D. L. JONES.

Rotary-Pump.

No. 126,306.

Patented April 30, 1872.

Fig. 1.

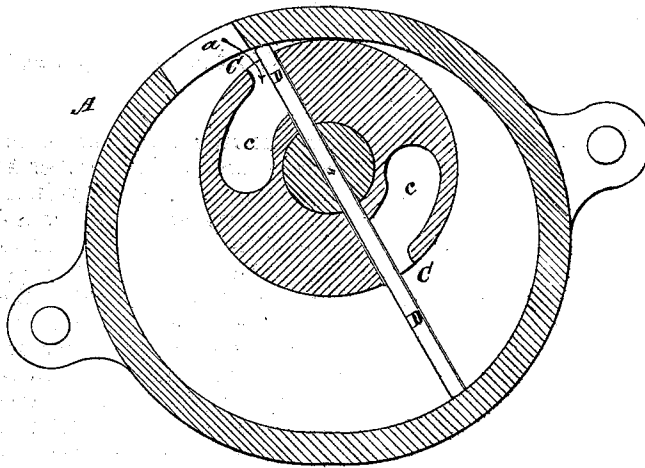


Fig. 2.

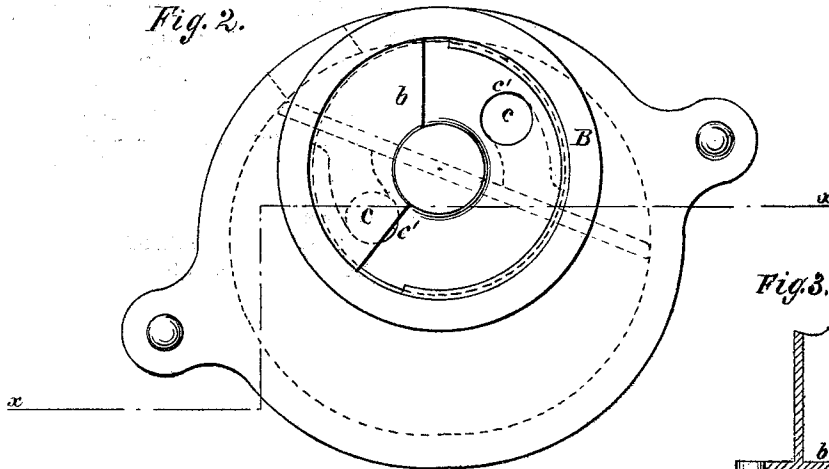
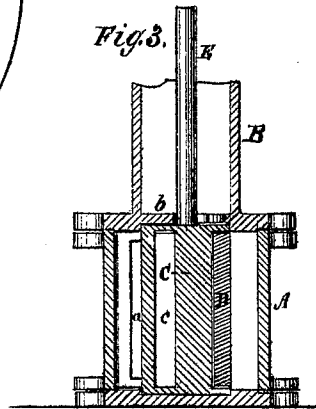


Fig. 3.



Witnesses:

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DAVID L. JONES, OF NEBRASKA CITY, NEBRASKA.

IMPROVEMENT IN ROTARY PUMPS.

Specification forming part of Letters Patent No. 126,306, dated April 30, 1872.

Specification describing Improvement in Rotary Force-Pumps, invented by DAVID L. JONES, of Nebraska City, in the county of Otoe and State of Nebraska.

The invention consists in forcing water upward through a tube by means of one cylinder, having a diametrical slide piston rotating eccentrically within a second cylinder, each provided with apertures, and combined with a discharge-tube having a stationary valve, as hereinafter fully described and subsequently pointed out in the claim.

Figure 1 is a horizontal section, Fig. 2 a plan view, and Fig. 3 a vertical section of my improved machine.

A represents the cylindrical water-reservoir having chamber A' and inlet aperture *a*, and provided on top with a discharge-tube, B, having the stationary valve *b*. C is a cylinder pivoted eccentrically in said reservoir, having the piston D passing diametrically there-through, and provided with a chamber, *c*, and valve-seat *c'*, on each side of piston D. To this cylinder C is attached the vertical shaft E, by which the former is rotated.

The mode of operation is as follows: The wa-

ter, entering reservoir A through inlet *a*, is carried around in chamber A' by the piston D. As the latter gradually diminishes the size of water-chamber, the water is forced up through one of the chambers *c* and valve-seats *c'*, and into tube B. While this is being done, one valve-seat, *c*, is covered by the stationary valve *b* in the base of tube B, but commences to open as soon as the other begins to be closed. By this combination of instrumentalities I form a very simple, durable, and efficient pump, which can be constructed at a reasonable cost.

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

The combination, in a rotary force-pump, of the receiving-cylinder A, having inlet-aperture *a*, the eccentric rotary cylinder C having valve-seats *c' c'*, and the tube B having the stationary valve *b*, all arranged to operate together as and for the purpose described.

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Witnesses:

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