D. L. JONES.

Rotary-Pump.

No. 126,306. Patented April 30, 1872.

Fig. 1.

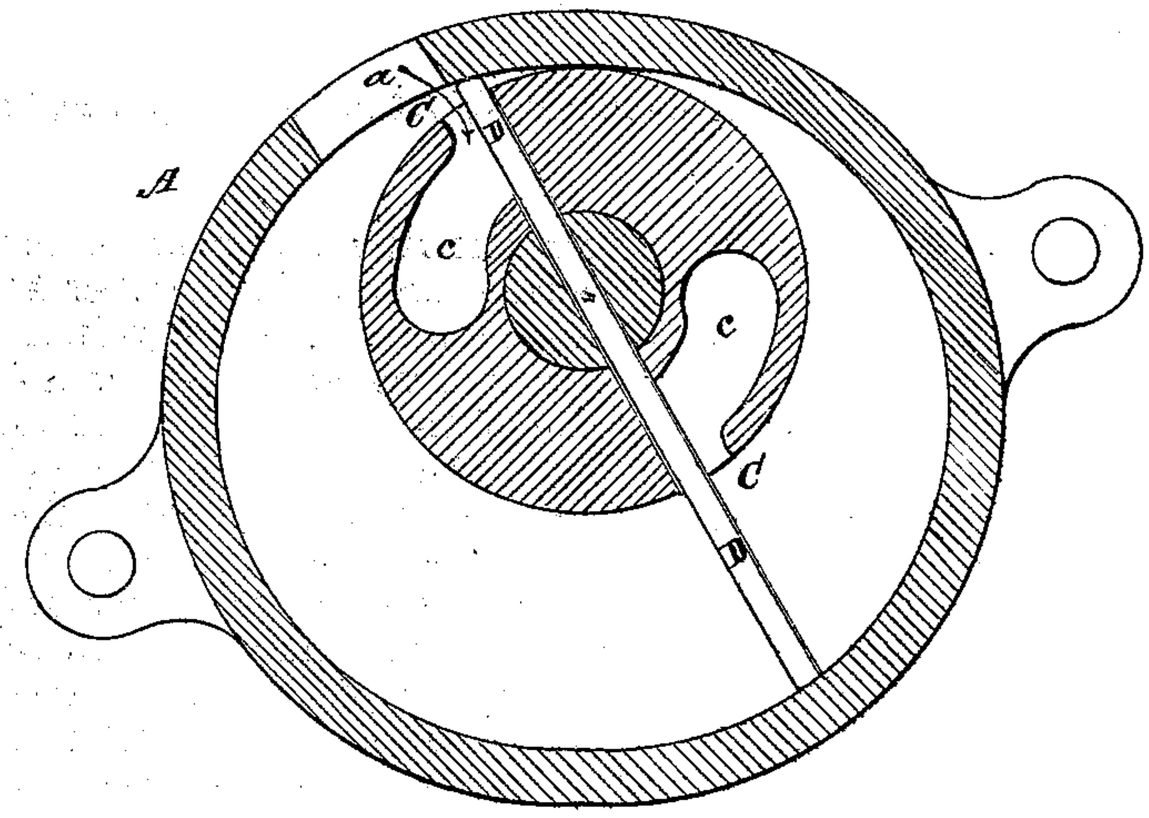


Fig. 2.

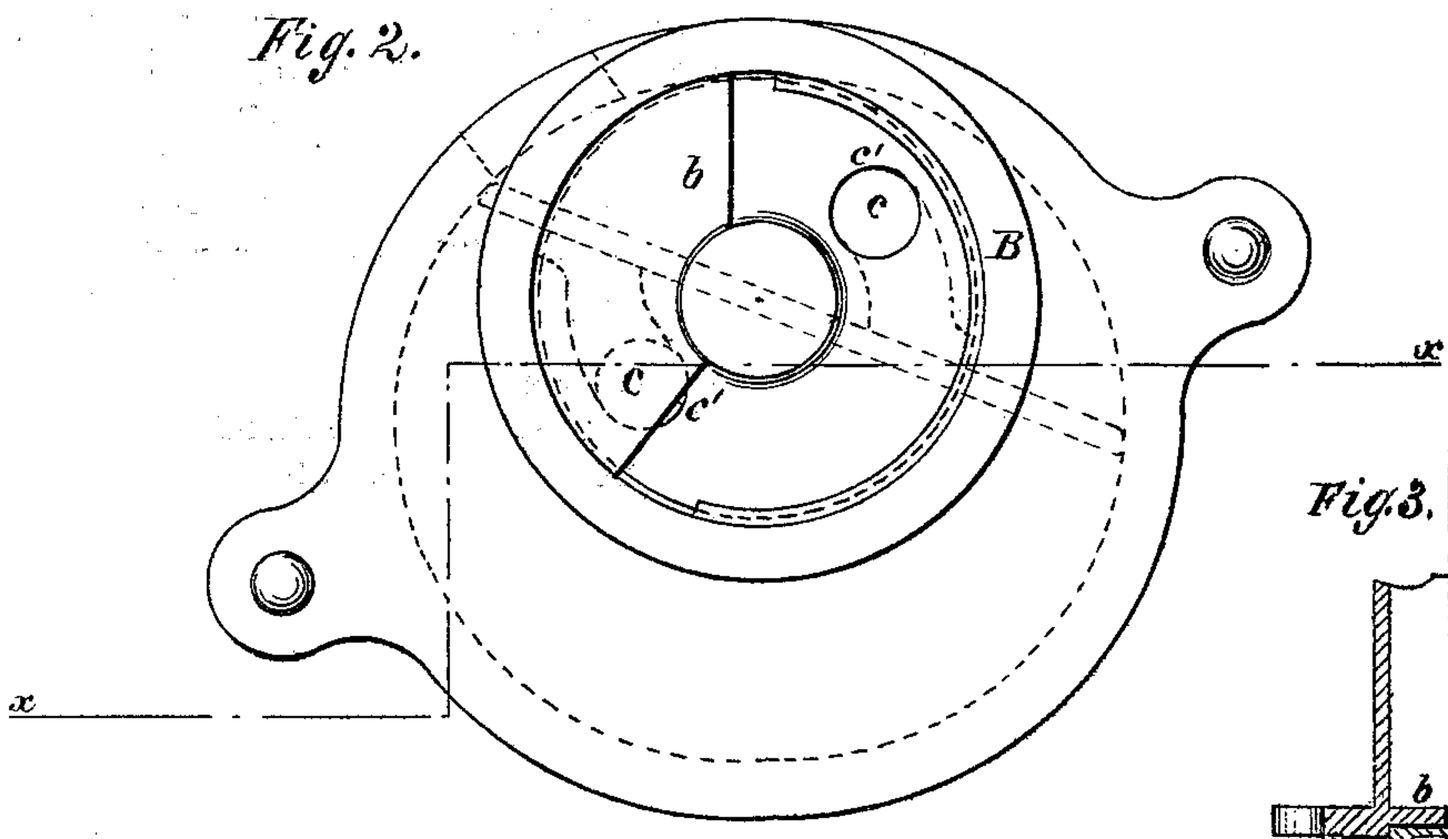
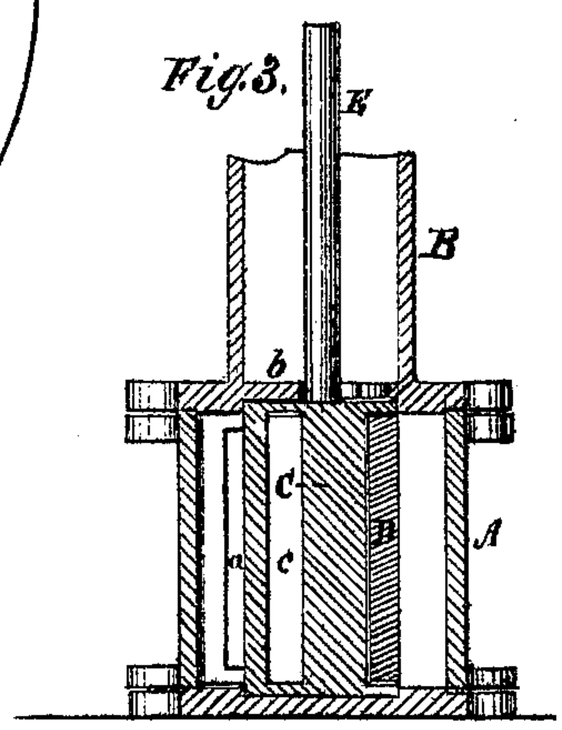


Fig. 3.



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126,306

UNITED STATES PATENT OFFICE.

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 therethrough, 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 water, 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 intrumentalities 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.

D. L. JONES.

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