

JR Weisigers Pump

Fig. 1.

PATENTED

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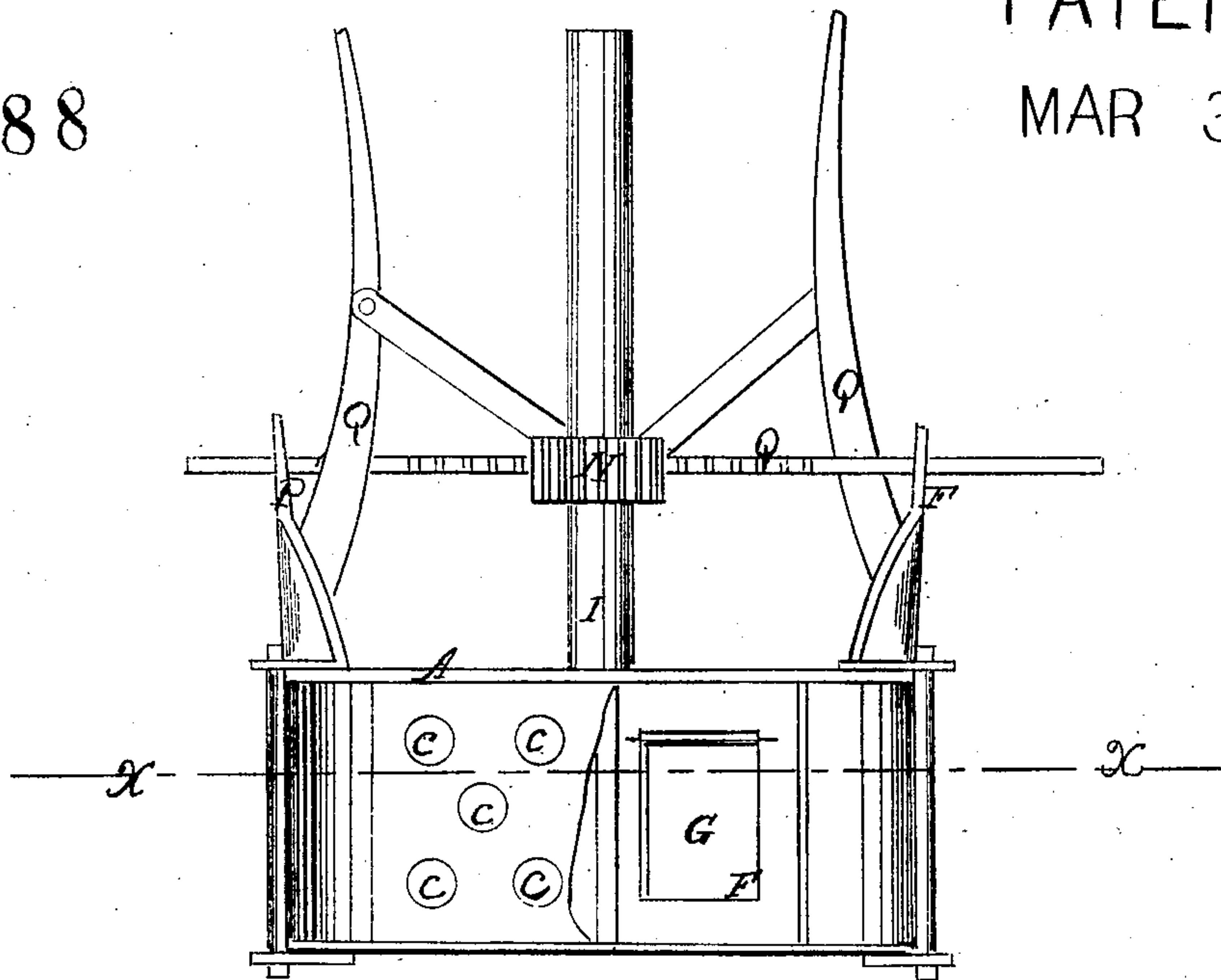
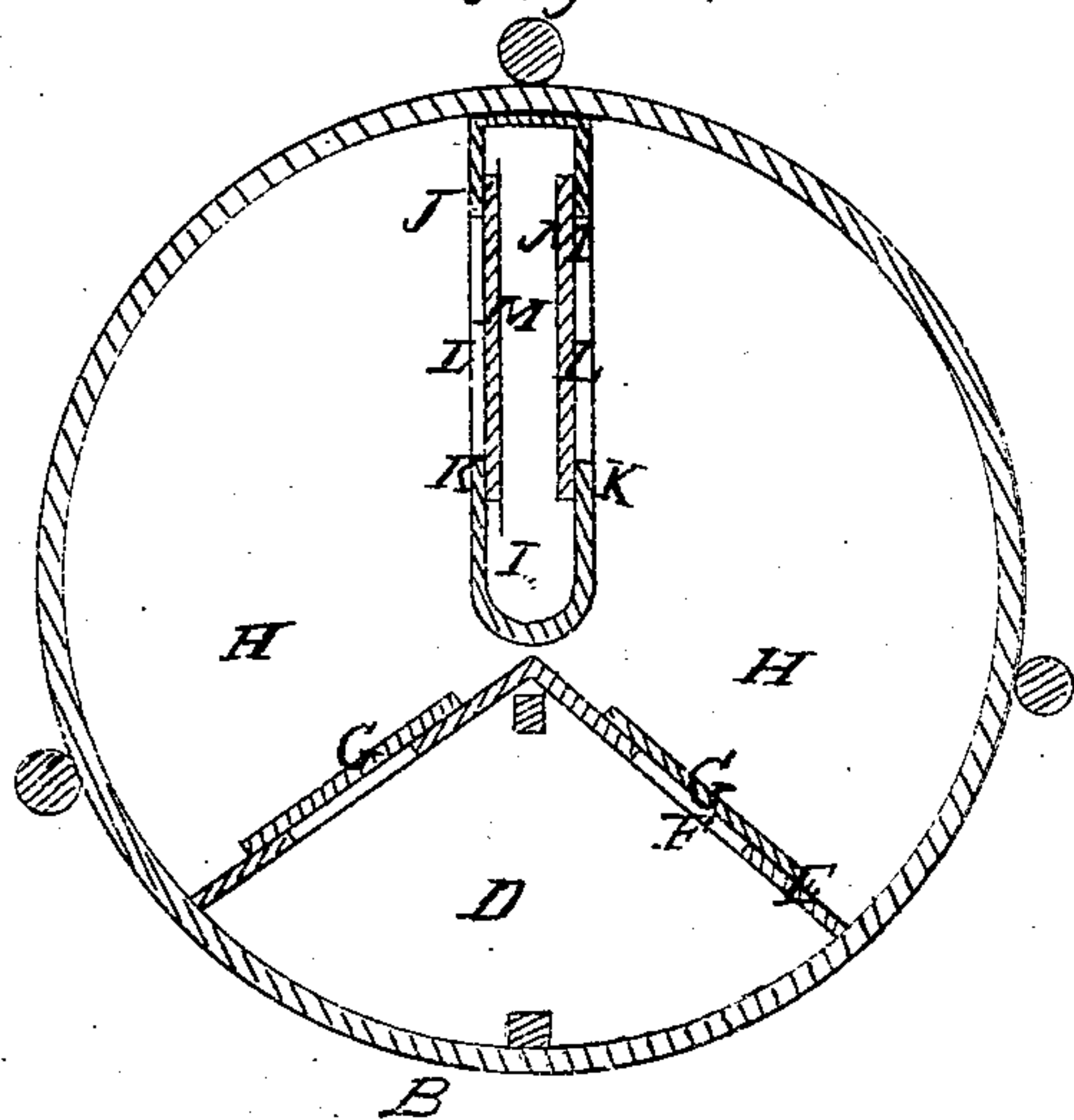


Fig. 2.



Witnesses
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J. R. WEISIGER, OF DANVILLE, KENTUCKY.

Letters Patent No. 75,088, dated March 3, 1868; antedated February 28, 1868.

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, J. R. WEISIGER, of Danville, in the county of Boyle, and State of Kentucky, have invented a new and improved Pump; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The pump embraced in the present invention is intended for raising water from wells, cisterns, tanks, docks, &c., and in its construction and arrangement of parts is simple and cheap, as well as possessed of great capacity of action. In the accompanying plate of drawings, my improved pump is illustrated—

Figure 1 being a side view and elevation of the same, and

Figure 2 a horizontal section, taken in the plane of the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

A, in the drawings, represents a cylinder or case, closed upon all sides, but, at B, provided with a series of apertures, C, communicating with the inner chamber, D, to the cylinder A, formed by means of the radial partitions E therein. In each of these partitions E is an opening, F, provided with a valve-plate, G, opening into the chamber H of the main cylinder or case A. I, a vertical shaft, turning in bearings, at the centre of the case A. This shaft I is made hollow, and extends through the centre of the case, and has therein secured a head, J, of suitable shape to fit the inside of the case. This head J is made hollow, and is in communication with the hollow shaft I, and, in its two side-plates, K, has an opening, L, each of which is closed by a valve-plate, M, opening into the head J. N, a pinion, on shaft I, outside of case A, with which pinion engages a toothed rack or bar, O, arranged to slide forward and backward in uprights P, when operated by and through the levers Q, connected therewith, or by any other suitable means. By moving the rack-bar O forward and backward, the head is moved around within the case A, with a forward and backward motion to and from the partition-plates therein, whereby the water is drawn into the chamber H of the case, and from that forced up and through the centre shaft I, as is obvious without any further explanation.

I claim as new, and desire to secure by Letters Patent—

1. The construction and arrangement of the hollow shaft I, having at its lower end the hollow head J, provided with valve M, the uprights P, arms Q, rack O, and pinion, all operating as described, for the purpose specified.

2. The arrangement of the radial plates E, having valves G, hollow head J, having valves M, hollow shaft I, cylinder A, uprights P, rack O, arms Q, and pinion, as herein described, for the purpose specified.

J. R. WEISIGER.

Witnesses:

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EDWARD FLAIG.