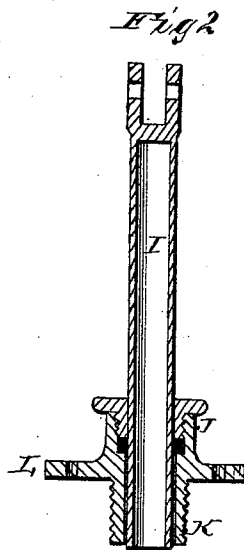
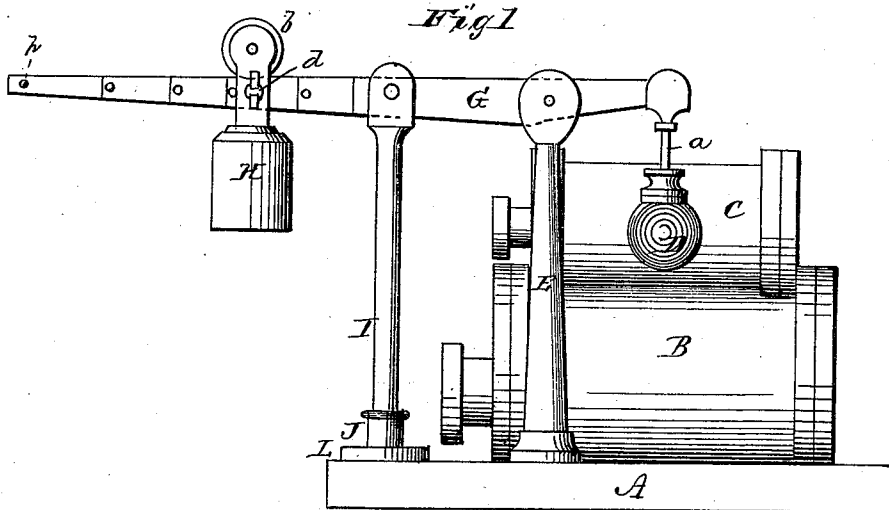


J. S. LEAS.
PUMP GOVERNOR.

No. 181,452.

Patented Aug. 22, 1876.



WITNESSES
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UNITED STATES PATENT OFFICE.

J. SILAS LEAS, OF ROCK ISLAND, ILLINOIS.

IMPROVEMENT IN PUMP-GOVERNORS.

Specification forming part of Letters Patent No. **181,452**, dated August 22, 1876; application filed June 2, 1876.

To all whom it may concern:

Be it known that I, J. SILAS LEAS, of Rock Island, in the county of Rock Island, and State of Illinois, have invented certain new and useful Improvements in Pump-Governor; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to a governor for pump-engine, as described in a separate application for patent; and it consists in the construction and arrangement of the devices connecting the weighted beam with the water-pipes, as will be hereinafter more fully set forth.

In the annexed drawing, Figure 1 is a side elevation of the governor embodying my invention. Fig. 2 is a vertical section of a part thereof.

A is the foundation; B, the cylinder, with steam-chest C. D is the valve, with valve-stem *a* connected to the graduated beam G pivoted in the standard E. H is the movable weight, with roller *b* and set-screw *d*. *h* is the stop in the beam, all of said parts being precisely the same as in my other application above referred to. K represents a pipe, having exterior screw-threads on its lower end to be connected with the water-main. This pipe

extends downward from a plate, L, on the foundation, and on top of this plate is an ordinary stuffing-box, J, with packing *i*, through which the rod I passes, the upper end of said rod being pivoted to the beam. The rod I may be solid or partially hollow, as desired.

The stuffing-box J forms a water-tight joint to prevent the escape of water, and the pressure in the water-mains operates on the rod I, and through it on the weighted beam and valve, to regulate the pump in the same manner and for the same purposes as described in my other application.

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

In a pump-governor, operated by the pressure of water in the mains, the pipe K, stuffing-box J, and rod I, in combination with the pivoted beam G connected with the valve of the pumping-engine, and provided with the self-acting weight H, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

J. SILAS LEAS.

Witnesses:

SAML. C. MILLS,
C. L. EVERT.