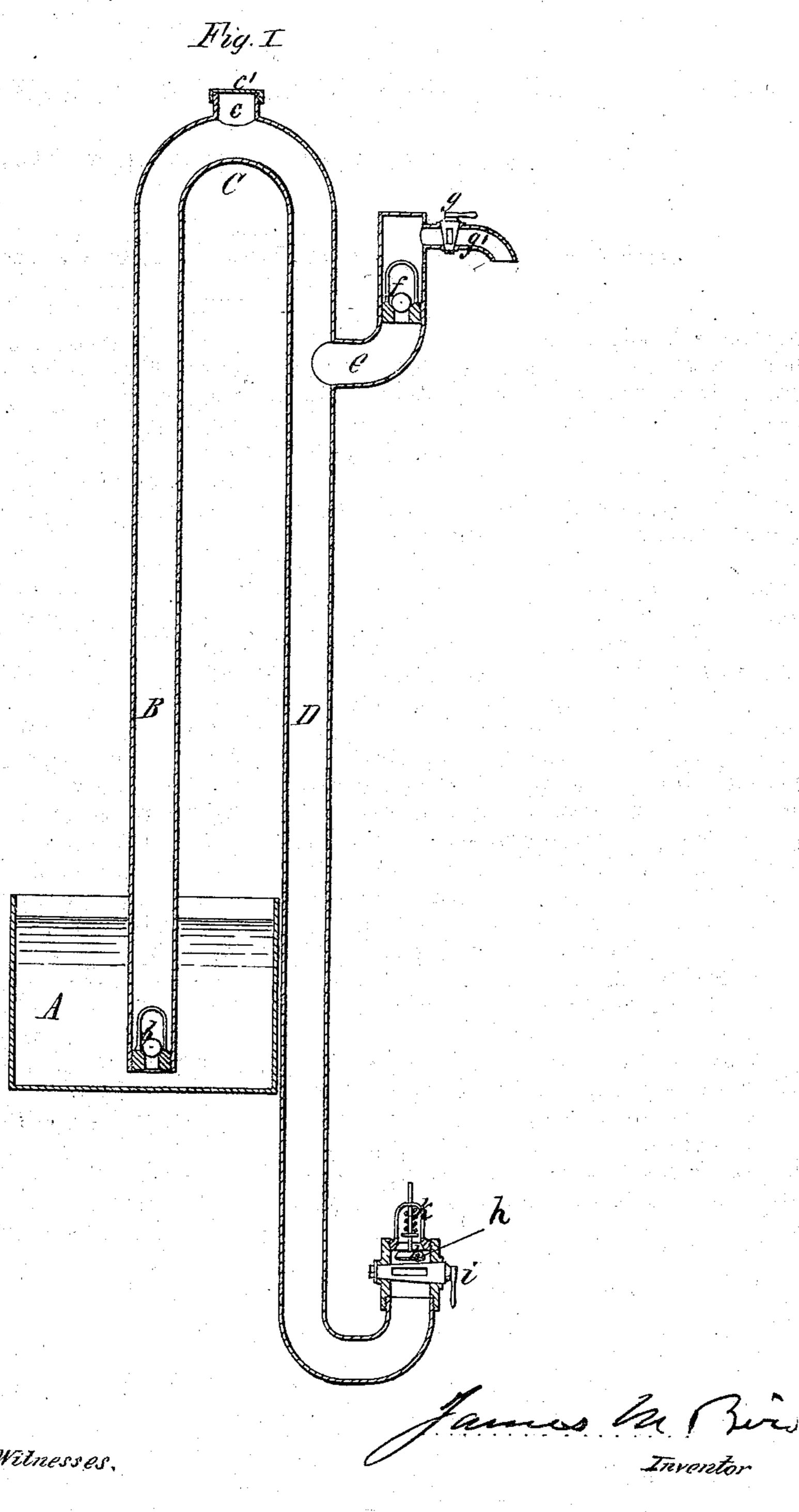
J. M. BOIS.

Siphon-Pumps.

No. 136,809.

Patented March 18, 1873.



Colovand Velhelen George J. Metzger Witnesses.

AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS)

UNITED STATES PATENT OFFICE.

JAMES M. BOIS, OF SALAMANCA, NEW YORK.

IMPROVEMENT IN SIPHON-PUMPS.

Specification forming part of Letters Patent No. 136,809, dated March 18, 1873.

To all whom it may concern:

Be it known that I, James M. Bois, of Salamanca, in the county of Cattaraugus and State of New York, have invented certain Improvements in Siphon-Pumps, of which the following is a specification:

This invention relates to an apparatus designed for raising water by siphonic action.

In the accompanying drawing, Figure I is a sectional elevation of my improved siphon-

pump. A represents the reservoir containing the water; B, the short leg of the siphon; C, its crown; and D, the long leg of the siphon. represents the valve or stop-cock arranged in the short leg of the siphon at its lower end. c represents an opening provided in the crown of the siphon and closed by a screw-cap, c'. e represents the discharge-pipe arranged near the crown of the siphon in the leg D. It is provided with a valve, f, arranged so as to prevent access of the external air into the said leg. g is a faucet arranged in a continuation, g', of the discharge-pipe e. h is an automatic valve arranged in the long leg D of the siphon at its lower end so as to prevent the outflow of the water when closed. Its spindle works against a spring, k, which throws the valve back into its open position. i represents a stop-cock arranged in the lower part of the leg D, near the valve h, so as to absolutely close the lower end of said leg when desired.

The operation of my apparatus is as follows: The cocks b i being turned so as to prevent passage of the water through their respective openings, and the opening c being opened, water is filled into the legs of the siphon through the latter, and the air contained in the legs is expelled, partly through the discharge-pipe e and partly through the opening c. When the water commences to flow out of the discharge-pipe e the faucet gis closed and the crown of the siphon filled, when the cap c' is again applied so as to close the opening c air-tight. Upon opening the cocks b i and the discharge-faucet g, the water is first discharged through the lower end of the leg D until its momentum closes the valve h, when the water will raise the valve f and discharge through the pipe e and faucet g, thus relieving the valve h of excessive pressure and enabling the spring k to return the latter to its open position, when the same operation is repeated. The discharges of water through the pipe e follow each other in such rapid succession that a comparatively steady flow of water is obtained.

I claim as my invention—

In combination with a siphon, the valves b h f, the cocks g i, and duct e, when arranged to operate as specified.

JAMES M. BOIS.

Witnesses:

EDWARD WILHELM, GEORGE J. METZGER.