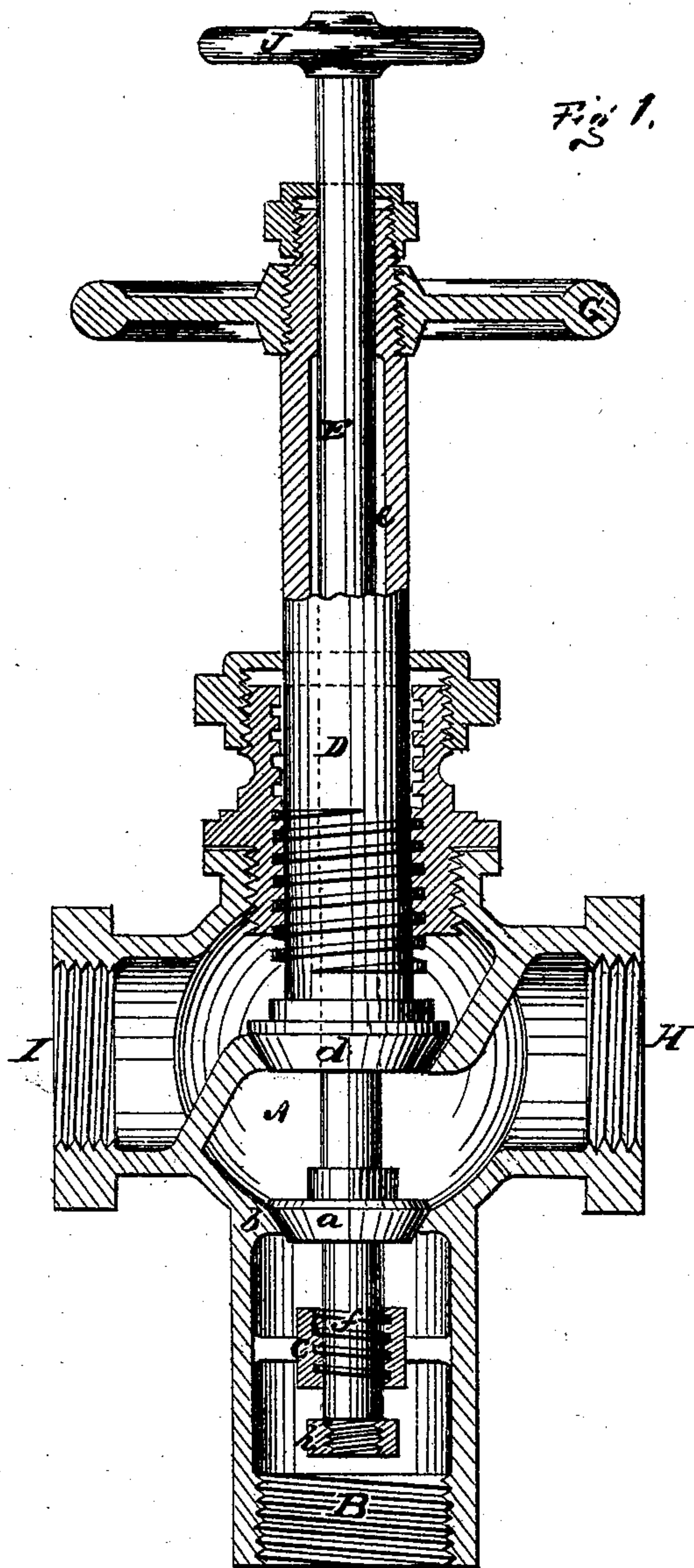


R. NUTTY.
Globe-Valves.

No. 147,065.

Patented Feb. 3, 1874.



Witnesses.
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UNITED STATES PATENT OFFICE.

ROBERT NUTTY, OF NEW YORK, N. Y.

IMPROVEMENT IN GLOBE-VALVES.

Specification forming part of Letters Patent No. **147,065**, dated February 3, 1874; application filed June 18, 1873.

To all whom it may concern:

Be it known that I, ROBERT NUTTY, of the city, county, and State of New York, have invented a new and Improved Globe-Valve; and that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention is in the nature of an improvement in globe-valves; and has for its object a globe-valve so constructed as to admit of the discharge of the condensed steam, so that it may not be carried with the steam into the engine, heater, or other apparatus, and in this way obviate the necessity of having more than one valve, the result being economy in construction and space.

In the accompanying sheet of drawings, Figure 1 represents a longitudinal section of my invention.

A represent a globe-valve of the ordinary construction, but cast or otherwise formed with this valve is a prolongation, B, the interior of which is formed with a valve-seat, *b*, and with a guide, *c*. Secured to the stem D is a valve, *d*, operated precisely the same as similar valves in the ordinary globe-valve. The stem D, however, has a cylindrical opening, *e*, in the direction of its length, through which is passed a secondary stem, E, this secondary stem extending below the valve *d*, and having tightly fitted to it the valve *a*. That part of the stem E projecting below the valve *d* is provided with screw-threads *f*, which work into corresponding screw-threads in a guide, *g*, formed within the prolongation B, and the inner end of the secondary stem E has fitted to it a nut or washer, *h*.

My valve being constructed substantially as above described, its operation is as follows: The steam entering through the opening H,

the secondary valve-stem E is turned to the right by the wheel J, which operation lifts the valve *a* from its seat without disturbing the valve *d*, allowing the condensed steam or water to be blown out or escape. When this is accomplished the stem E is turned to the left until the valve *a* is seated, which prevents the further escape of water or steam. The stem D is now turned to the left by means of the wheel G, when the valve *d* is raised from its seat, and the steam allowed to pass through said seat, and out of the opening I into the engine, heater, or other apparatus. The stem E where it passes through the valve *d* fits snugly, so as to prevent the escape of steam, and the stem D where it enters into the globe-valve is provided with a stuffing-box, as is ordinarily the case with similar valves, and the stem E where it enters into the stem D is provided with a like stuffing-box, this construction rendering the device tight in all its parts.

From the foregoing description it will be seen that I produce a globe-valve with a supplemental water-valve added thereto in such manner as to do away with the necessity of two or more valves, and at the same time effectually provide for the discharge of the condensed steam or water.

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

A globe-valve constructed with a supplemental valve for the escape of condensed steam or water, operated by a stem extending through the stem of the main valve, and actuated independently thereof, substantially as described.

ROBERT NUTTY.

Witnesses:

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