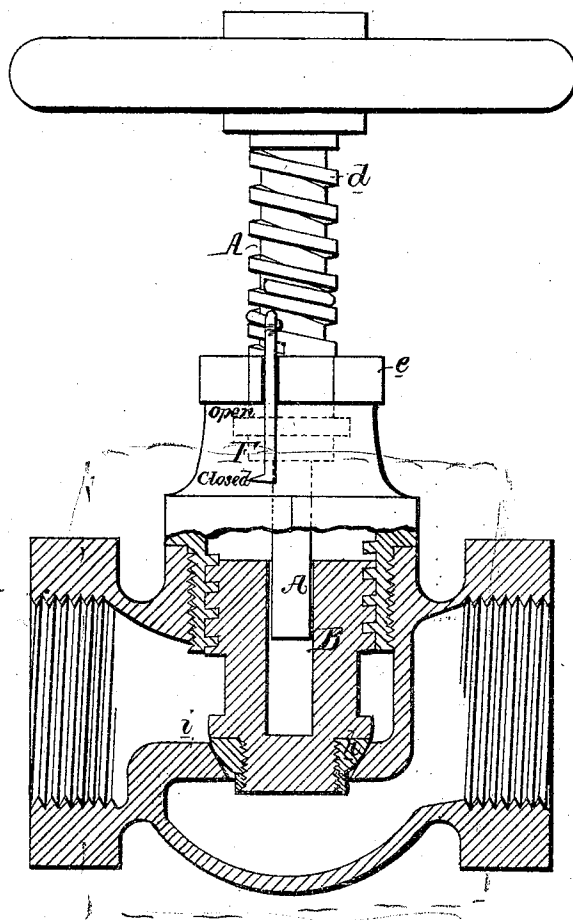


J. WALSH.
Valve-Cocks.

No. 141,839.

Patented August 12, 1873.



Witnesses, Harry Smith
Thomas McKeain

James Walsh
by his Atty.
Horsman and Son

UNITED STATES PATENT OFFICE.

JAMES WALSH, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN VALVE-COCKS.

Specification forming part of Letters Patent No. **141,839**, dated August 12, 1873; application filed May 14, 1873.

To all whom it may concern:

Be it known that I, JAMES WALSH, of Philadelphia, Pennsylvania, have invented certain Improvements in Valve-Cocks, of which the following is a specification:

My invention relates to an improvement in that class of valve-cocks in which a pointer or sliding rod is used to indicate the position of the valves; and my invention consists in the application of such a pointer to a cock in which the valve-spindle has a rotary movement only.

Such application may be effected in the manner plainly shown in the accompanying drawing, by cutting a screw-thread, *d*, upon that portion of the operating-stem *A* which projects above the cap *e* of the valve-casing, and, by adapting a rod or wire, *F*, to the said screw-thread, and so guiding the same in a slit in the cap, or otherwise, that, when the said stem is turned in order to raise the valve, the wire shall also be raised, and lowered when the valve is forced into its seat, it thus serving as an indicator to show the position of the valve.

It will be observed on reference to the drawing that the operating-stem *A* projects into a recess in the valve, but is not connected to the same, the valve having an external screw-thread adapted to a corresponding thread in

the casing, and being raised and lowered when turned by the stem, which is so confined that it can simply turn without being either raised or lowered, so that it serves merely as an operating-key for the valve.

In valve-cocks of this class, as ordinarily constructed, it is impossible to determine the position of the valve without experimenting, by turning the stem—a serious defect, which I have obviated by threading the upper portion of the said stem and adapting thereto an indicator, *F*, as before described, this indicator showing at a glance the position of the valve and rendering all experimenting unnecessary.

I claim—

The combination, in a valve-cock, of a spindle, *A*, having a rotary movement only, and a pointer, *F*, connected to the spindle, so that on the rotation of the latter the pointer will follow the movements of the valve, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES WALSH.

Witnesses:

WM. A. STEEL,
HUBERT HOWSON.