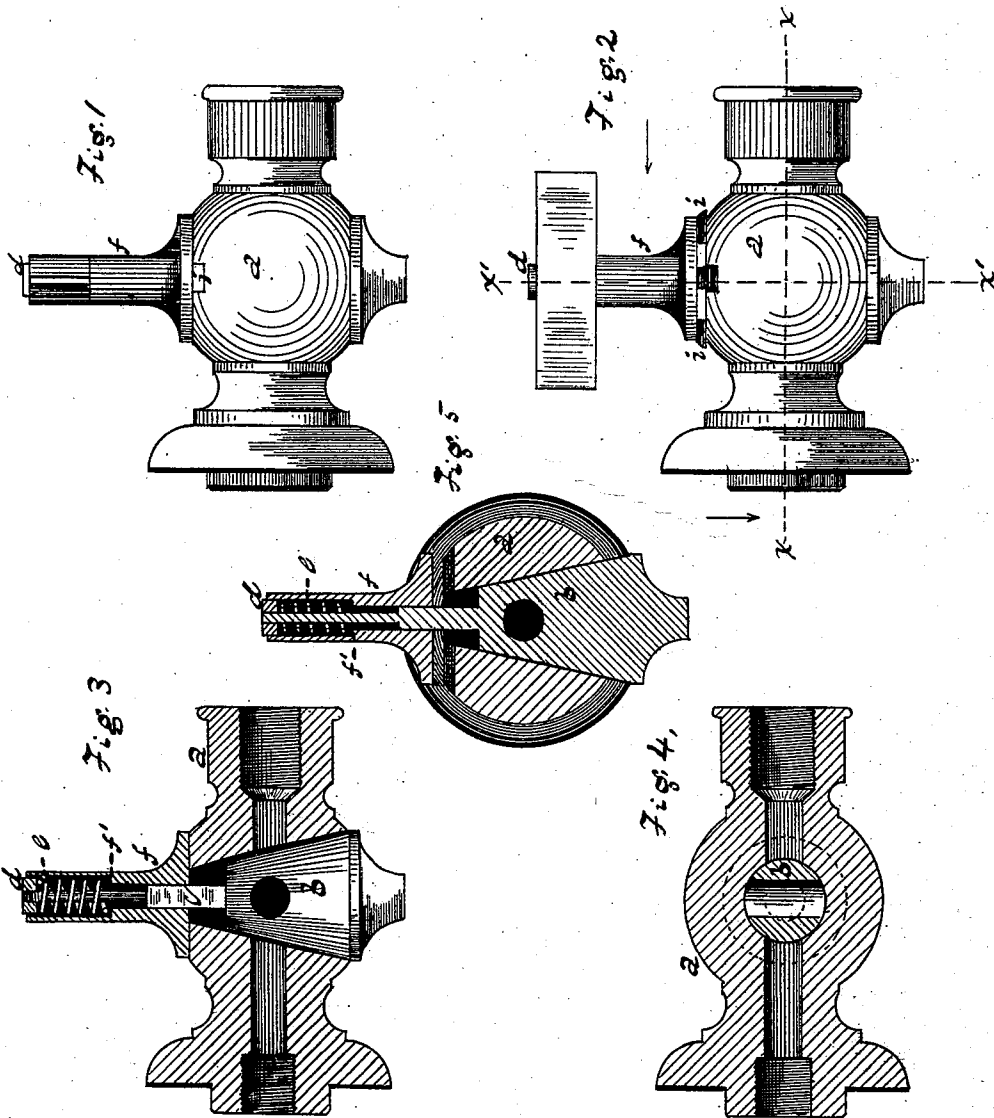


F. St. J. JONES.

GAS-TAP.

No. 172,881.

Patented Feb. 1, 1876.



WITNESSES.
John Pollard
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INVENTOR
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UNITED STATES PATENT OFFICE.

FRANCIS ST. JOHN JONES, OF COLLEGE YARD, WORCESTER, ENGLAND,
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IMPROVEMENT IN GAS-TAPS.

Specification forming part of Letters Patent No. 172,881, dated February 1, 1876; application filed May 25, 1875.

To all whom it may concern:

Be it known that I, FRANCIS ST. JOHN JONES, of College Yard, Worcester, England, have invented an Improved Gas-Tap, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a side view of the gas-tap, closed. Fig. 2 is a side view of the gas-tap, open. Fig. 3 is a view of the gas-tap, as adjusted in Fig. 1, in central vertical longitudinal section. Fig. 4 is a central horizontal longitudinal section on the plane $x x$, tap closed. Fig. 5 is a vertical transverse section on plane $x' x'$.

The invention is a gas-tap, which locks when closed, and which, by spring-pressure on the plug, takes up its own wear.

The body a is of common construction. The plug b is the frustum of a cone fitting to a corresponding seat. From its top extends the rod c , square or polygonal in cross-section for a short distance, and then it may be round above that, with a screw-nut, d , at the top, against which presses the spring e , confined within the body of the handle f , and resting, at its lower end, on the shoulder f' , whereby the plug is constantly pressed upward into its seat, and kept tight in its seat as it wears away by use. The square part of the rod c

fits in a corresponding mortise in the body of the handle f , so that the plug will rotate with the handle, leaving the handle free to rise and fall. On the base of the handle are lugs i , which fit into corresponding mortises or depressions in the faced top of the body a when the tap is closed, as shown in Fig. 1, pulled down thereto by the spring, thereby securely locking the plug when the tap is closed.

When the tap is opened these lugs ride upon the faced top of the body a , as shown in Fig. 2. This arrangement is not only valuable for locking the tap closed at all times, but is doubly handy at night, when the click given out as the lugs i snap down into their seats tell the ear that the tap is securely closed.

I claim as my invention—

The combination of the body a , plug b , spring e , and handle f , bearing lugs i , fitting to corresponding recesses in the body a , all acting substantially as shown and described.

FRANCIS ST. JOHN JONES.

Witnesses:

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