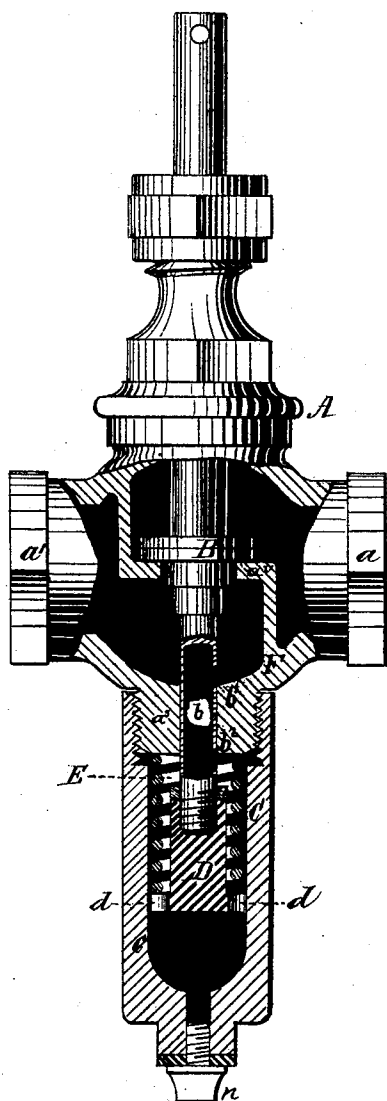


E. M. MORRIS.
Gas-Cocks.

No. 145,442.

Patented Dec. 9, 1873.



Witnesses.
G. Markey.
John C. Kemont

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UNITED STATES PATENT OFFICE.

EUGENE M. MORRIS, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN GAS-COCKS.

Specification forming part of Letters Patent No. **145,442**, dated December 9, 1873; application filed November 17, 1873.

To all whom it may concern:

Be it known that I, EUGENE M. MORRIS, of Baltimore city and State of Maryland, have invented a new and Improved Gas-Cock; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification.

The invention relates to the gas-cock which conjoins the meter and service-pipe of a building; and consists in novel means of insuring a perfect drip of the water which remains after the gas is shut off, which results from condensation of aqueous vapor.

The drawing is a sectional elevation.

A represents the shell, having short pipes a^1 , the former connecting with the meter and the other with the service-pipe. B is the valve, which works vertically and fits upon the seat a^2 . This valve I provide with a hollow stem, b , which passes through the bottom a^3 of shell, and into the drip-receptacle C, which is screwed to the shell and closed at bottom by means of a screw, n . The end of tube b is threaded, and screws into an end-flanged block, D. Between the flange d and the shell bottom a^3 is coiled about the tube a spiral spring, E, which holds the valve securely to its seat. The tube b is closed at both ends, but provided with an inlet-aperture, b^1 , always above the bottom a^2 , and an outlet-aperture,

b^2 , below it only when the valve is on its seat. When the valve is opened the tube b is drawn up within the body of shell-piece a^3 , and the aperture b^2 thus entirely closed, thereby preventing the escape of gas into the drip-receptacle C.

The operation is as follows: As soon as the valve B is closed, in order to shut off the gas, any liquid in the chamber F immediately descends through the tube b into the drip-vessel C, whence it can be drawn off at suitable intervals by the removal of the screw n . By this device there is no opportunity afforded to the matters held in solution by water remaining in chamber F to make a deposit, which will work in between the tube b and the body of shell-piece, or for the water in the bottom of chamber F to freeze about the tube.

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

The combination, with a cock-valve, B, subjacent chamber F, and drip-chamber C, of the projecting tube b , provided with apertures b^1 , b^2 , one above and the other below the shell bottom a^2 , as and for the purpose specified.

EUGENE M. MORRIS.

Witnesses:

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