

E. M. MORRIS.
Water and Gas Cut-Off Operating and Locking
Mechanisms.
 No. 147,958. Patented Feb. 24, 1874.

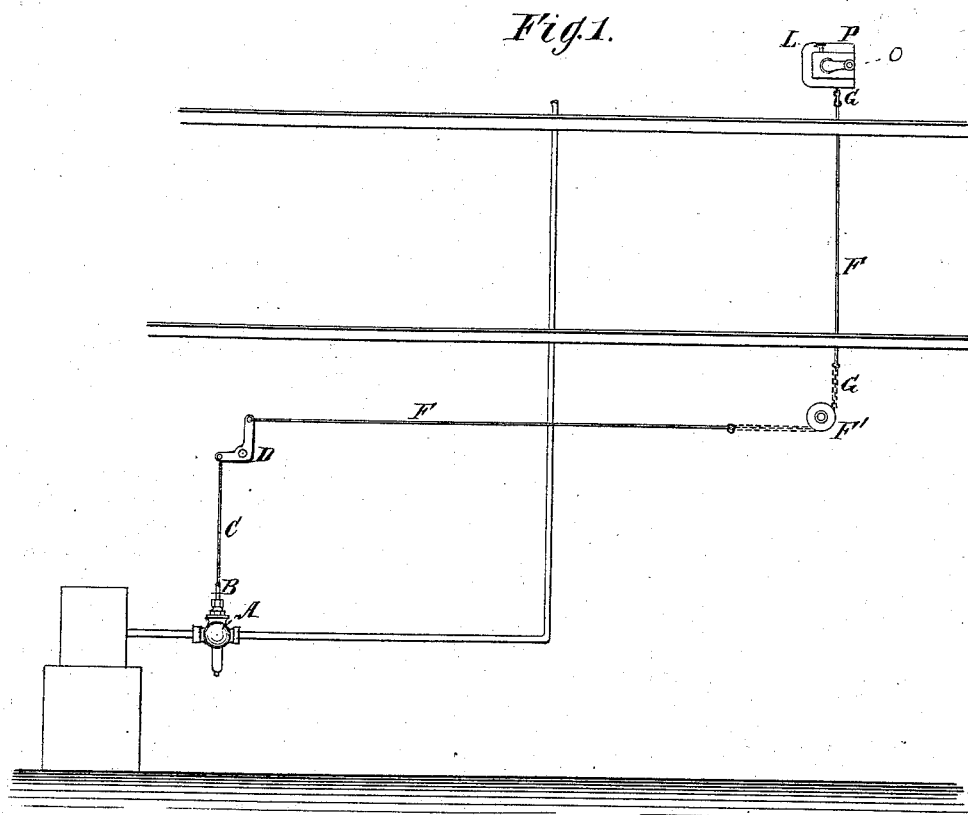
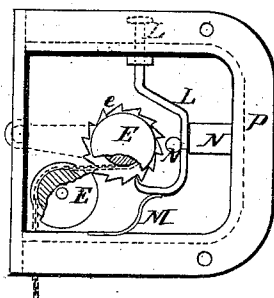


Fig. 2.



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UNITED STATES PATENT OFFICE.

EUGENE M. MORRIS, OF BALTIMORE, MARYLAND, ASSIGNOR TO HIMSELF
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IMPROVEMENT IN WATER AND GAS CUT-OFF OPERATING AND LOCKING MECHANISMS.

Specification forming part of Letters Patent No. **147,958**, dated February 24, 1874; application filed
February 10, 1874.

To all whom it may concern:

Be it known that I, EUGENE M. MORRIS, of Baltimore, State of Maryland, have invented a new and Improved Water and Gas Cut-Off Operating and Locking Mechanism; 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 a part of this specification, in which—

Figure 1 is a side elevation. Fig. 2 is a vertical section of case and mechanism.

The invention relates to, and consists in, particular means or mechanism for locking and operating the valve of a gas or water cock, as hereinafter described.

A represents the cock, and B the valve-rod, the latter being connected, by intermediate mechanism, with a device in some room of a building, for the purpose of enabling the occupant to shut off or put on his gas or water at pleasure. I attach the upper end of valve-rod B by a wire, C, to one arm of a bell-crank lever, D, whose other arm is connected, by means of rods F, pulleys F', and chains G, with a grooved or rim-concaved drum, E, which has on one side flange *a*, ratchet *e*, that is prevented from turning backward by a de-

tent-pawl, L, that is held thereto by a spring, M. N N are guides, between which the detent slides, and *l*, a thumb-piece, which is placed on the outside of the lock-case P, and affixed to the detent-shank end, that has been passed through said case.

The valve being held firmly to its seat by a spring on the inside of the cock, this spring will cause the chain to unwind from the drum whenever the thumb-piece is pressed down, and thus made to release the detent from the ratchet.

Q is a hand-crank of the drum-shaft, by the rotation of which the valve is unclosed to any required degree, the detent holding it at any point desired.

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

The combination, with the chain and wire valve-connection A B F G, of the hand-crank Q, the drum E having flange-ratchet *e*, the detent-slide L having outside thumb-piece *l*, and the spring M, all arranged with respect to the lock-case as and for the purpose specified.

Witnesses: EUGENE M. MORRIS.

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