

(No Model.)

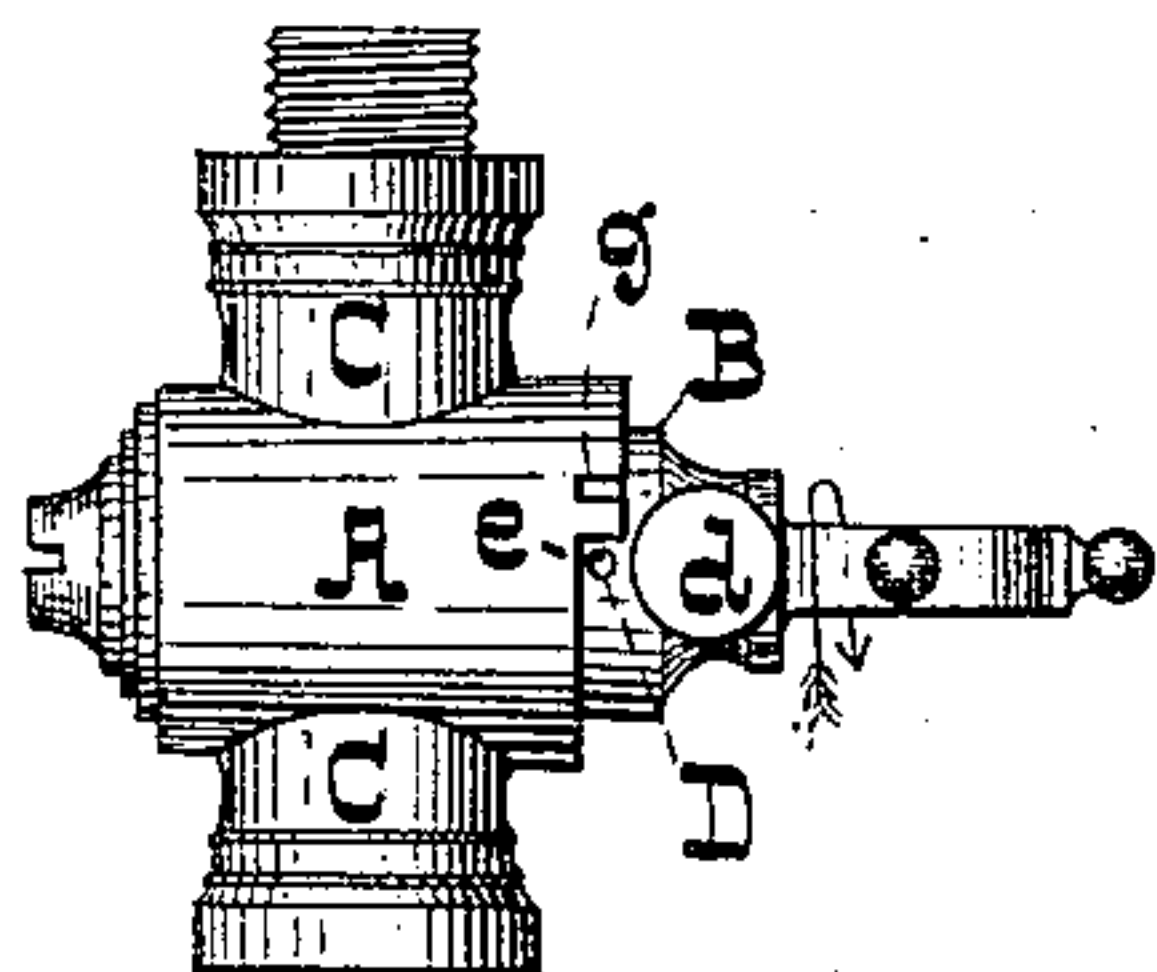
E. P. IRONS.

GAS COCK.

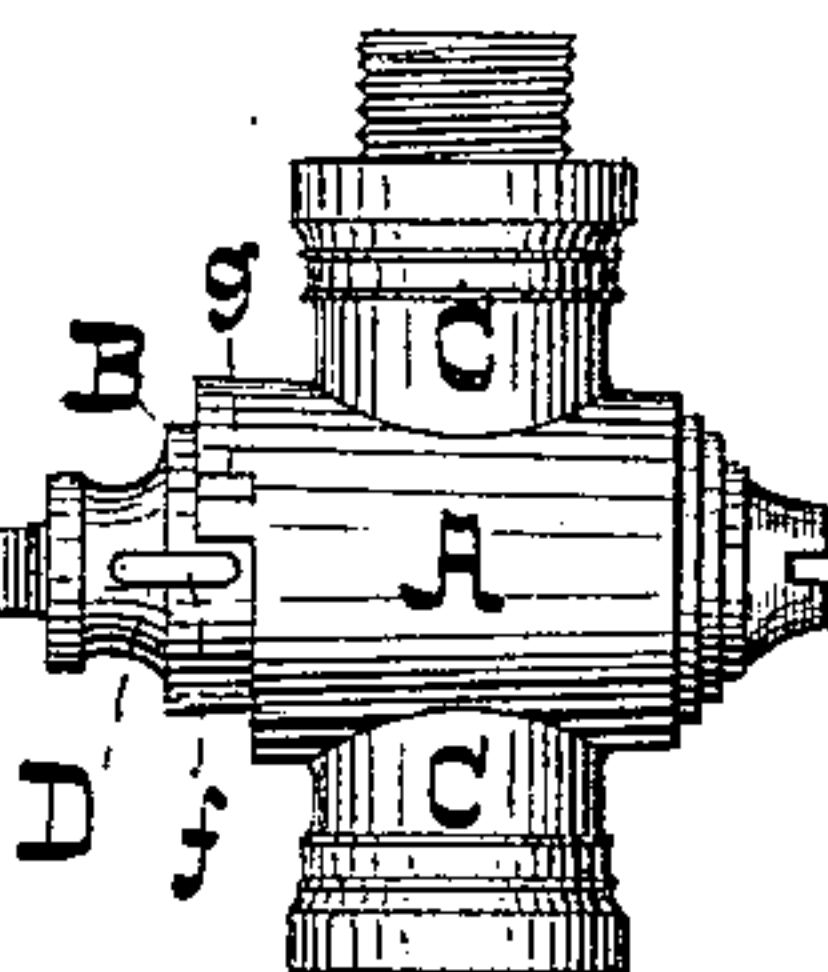
No. 337,161.

Patented Mar. 2, 1886.

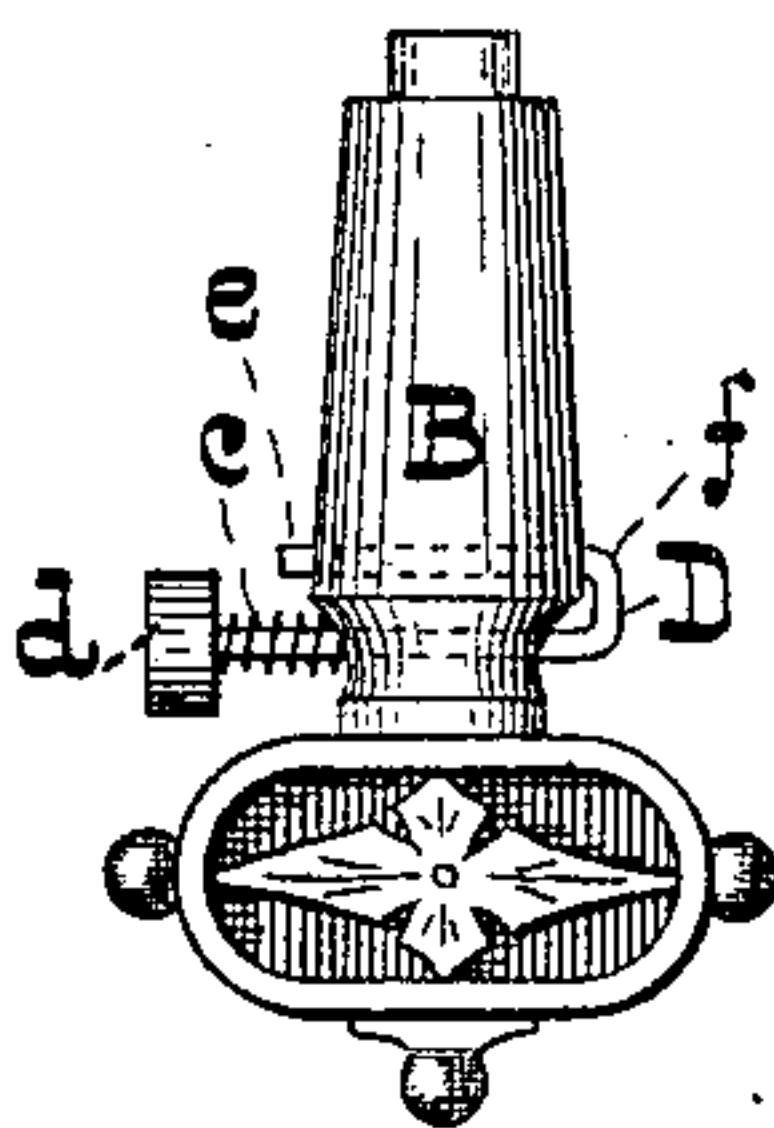
- FIG. I -



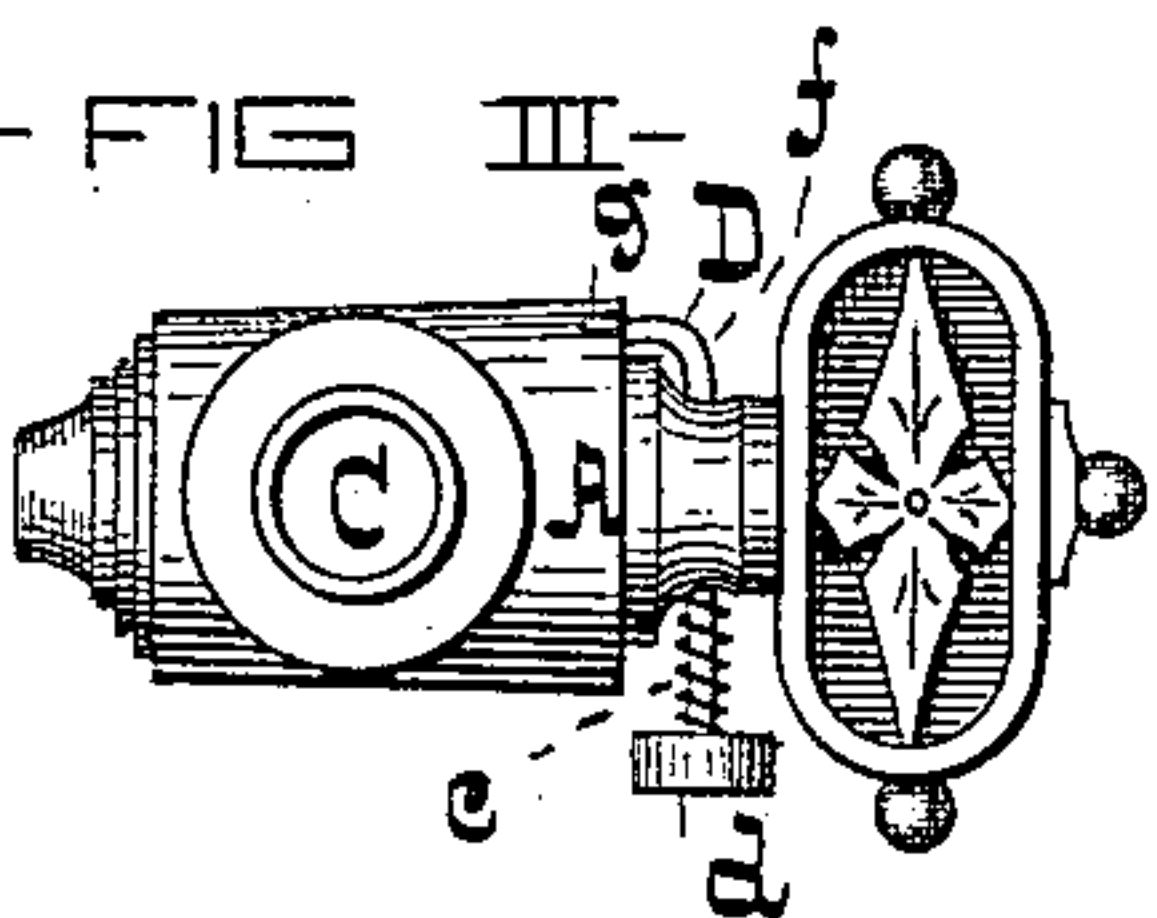
- FIG II -



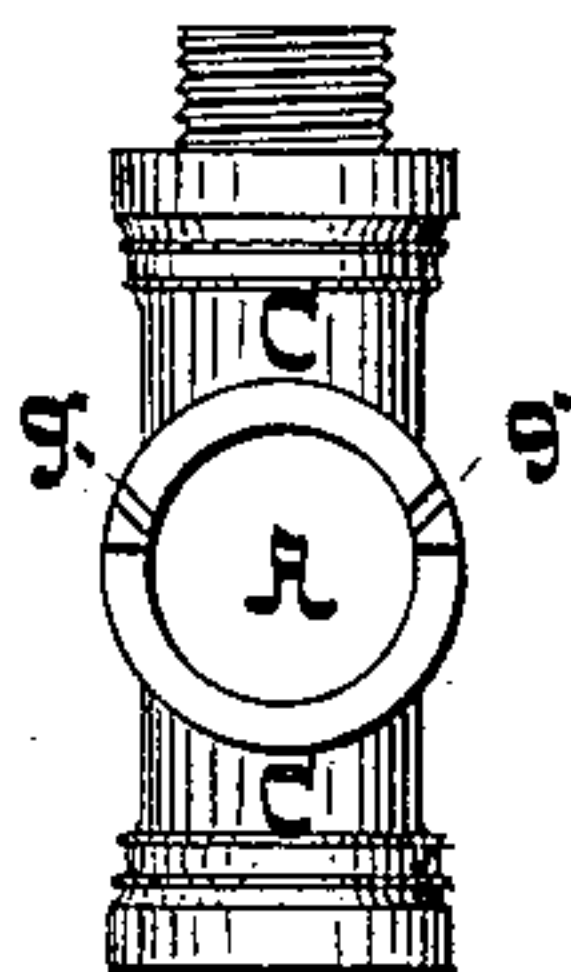
- FIG IV -



- FIG III -



- FIG V -



- WITNESSES -

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- INVENTOR -

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UNITED STATES PATENT OFFICE.

EDWARD P. IRONS, OF BALTIMORE, MARYLAND.

GAS-COCK.

SPECIFICATION forming part of Letters Patent No. 337,161, dated March 2, 1886.

Application filed December 9, 1885. Serial No. 185,117. (No model.)

To all whom it may concern:

Be it known that I, EDWARD P. IRONS, of the city of Baltimore, and State of Maryland, have invented certain Improvements in Gas-Cocks, of which the following is a specification.

In the drawings forming a part hereof, Figures I and II are exterior views of the improved gas-cock as seen from different sides. Fig. III is a top view of Fig. I. Fig. IV is a view of the key of the cock, and Fig. V a view of the cock without the key.

In the said drawings, A and B are respectively the barrel and the key of the cock, and C C are the nozzles to which the gas pipes or fixtures are screwed. The larger end of the barrel A is cut away at one side, as is usual in gas-cocks, and within this recess is generally situated the fixed pin which projects from the key, and which limits the movement of the key to a half-revolution.

In my invention I substitute for the fixed pin a movable bolt, D, which consists of a duplicated piece of wire which is twice passed loosely through the key, as shown particularly in Fig. IV.

A spiral spring, *e*, on the longer end of the bolt is slightly compressed between the thumb-piece *d* and the side of the key, and serves to retain the bolt with its shorter end *e* projecting beyond the key, as shown in the said figure. While the bolt is in this position the short end *e* of the bolt prevents the key being turned in one direction, and the duplicated part *f* prevents its being turned in the other. When the end *e* is forced below the surface of the key, through the medium of the thumb-piece *d*, the cock can be opened by turning the key in the direction indicated by the arrow in Fig. I.

In order that the key may be locked the

moment the flow of gas is cut off, and before the key has completed its movement, I provide the edge of the barrel with notches or slots *g*, into which the end *e* of the bolt D enters as the opening through the cock is closed; but these notches are cut at such angle as to offer no obstruction to the said bolt in the completion of the movement of the key in the same direction.

I claim as my invention—

1. In combination with the barrel A, having a portion of its larger end cut away, substantially as shown, the key B, having a bolt which passes through and projects from its surface, and a spring to make it normally engage with the remaining portion of the barrel and thereby prevent the key turning, and means whereby the projecting end of the said bolt may be forced beneath the surface of the key to admit of the same being turned to open the cock, substantially as specified.

2. In combination with the barrel of a cock having a portion of its larger end cut away, substantially as shown, a key with a bolt which passes through and projects from its surface and a spring to make it normally engage with the remaining portion of the barrel and thereby prevent the key turning, the said bolt being formed of a duplicated piece of wire having a thumb-piece, substantially as specified.

3. In combination with the barrel A, having a portion of its larger end cut away, substantially as shown, and provided with the notches or slots *g*, the key B, having the bolt D, which passes through and projects from its surface, and the spring *e*, substantially as specified.

EDWARD P. IRONS.

Witnesses:

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