

(No Model.)

G. DOUTNEY.
ATTACHMENT FOR GAS COCKS.

No. 319,396.

Patented June 2, 1885.

Fig. 1.

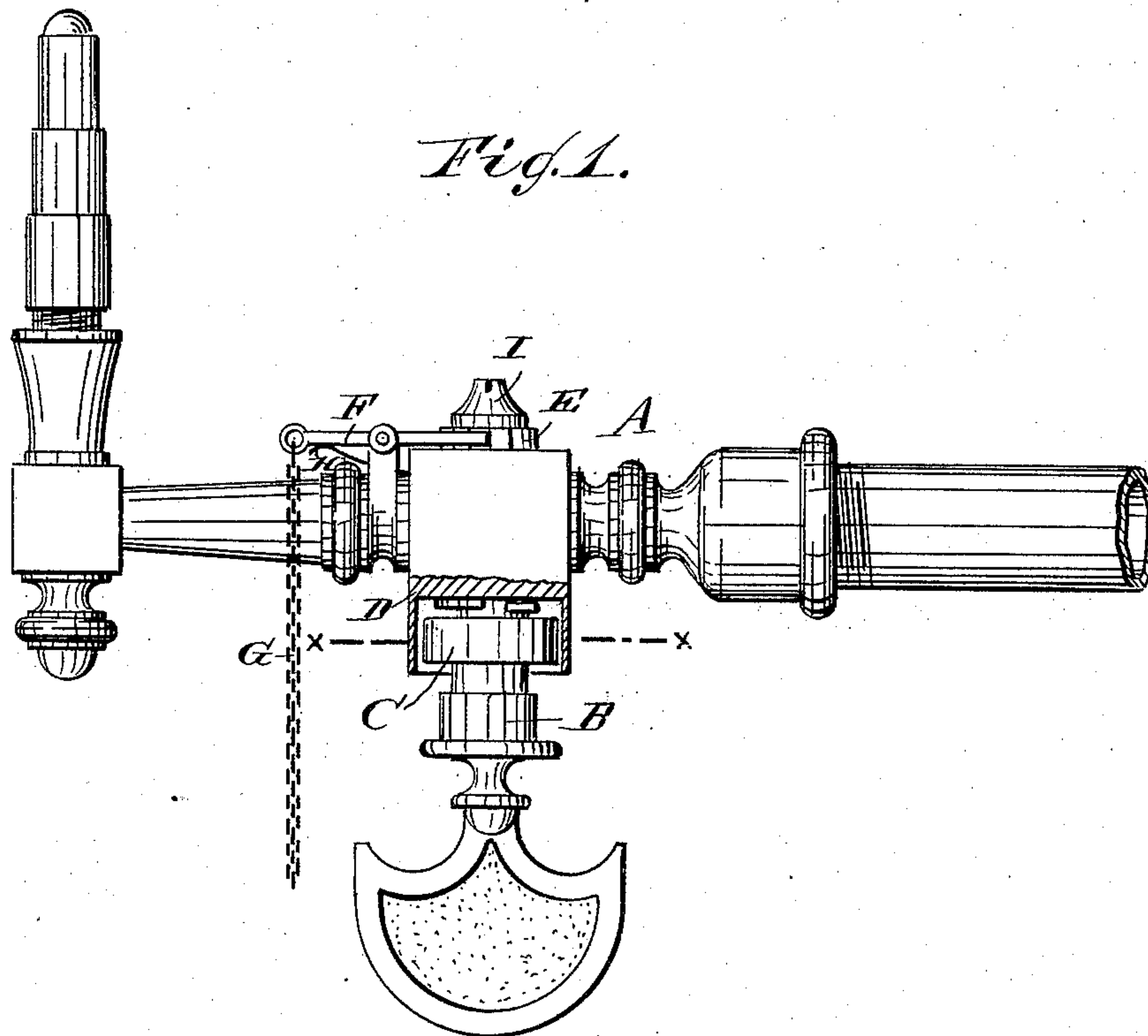


Fig. 2.

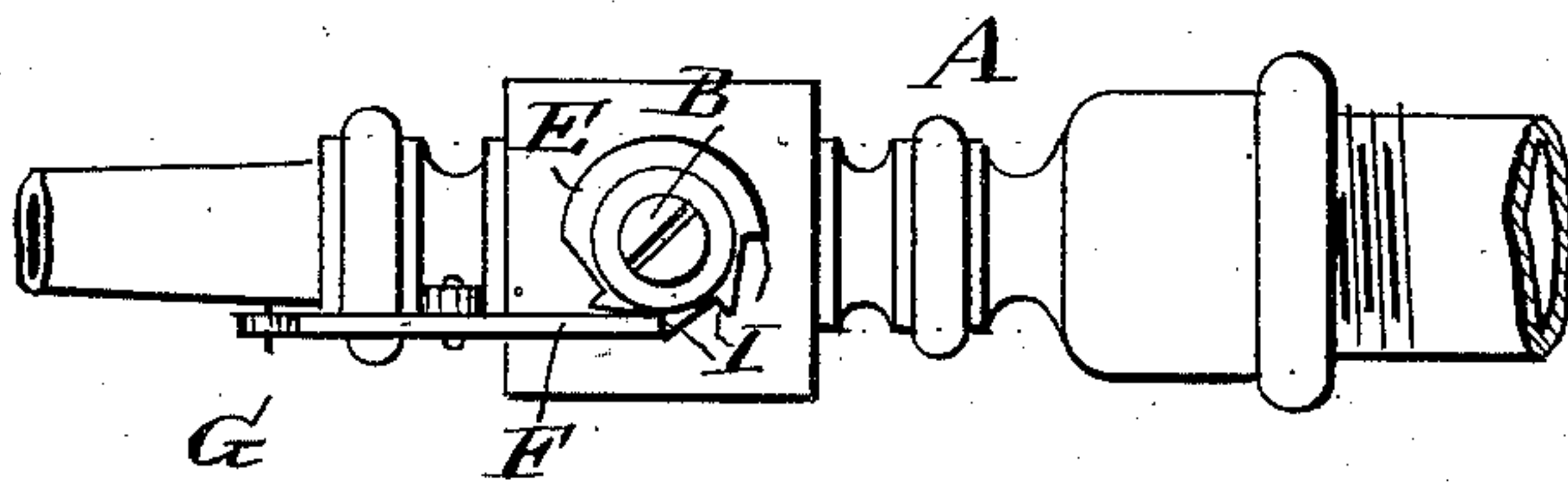
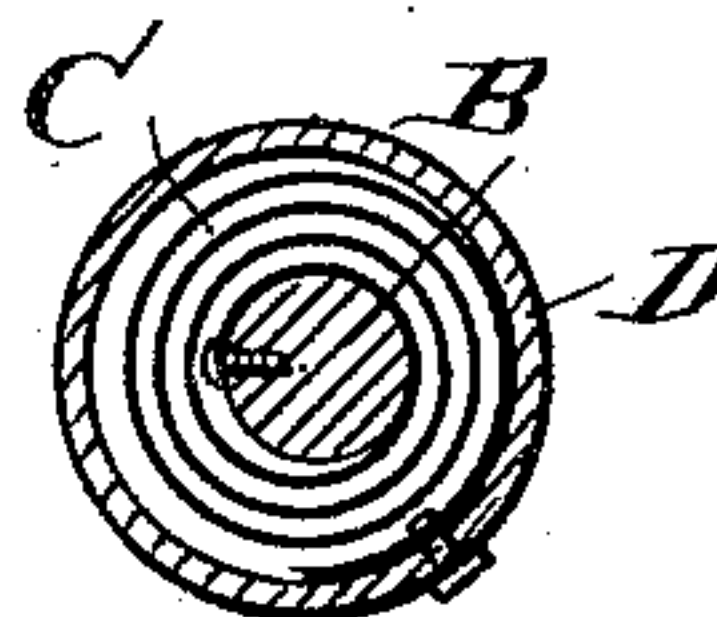


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE DOUTNEY, OF BROOKLYN, NEW YORK.

ATTACHMENT FOR GAS-COCKS.

SPECIFICATION forming part of Letters Patent No. 319,396, dated June 2, 1885.

Application filed January 21, 1885. (No model.)

To all whom it may concern:

Be it known that I, GEORGE DOUTNEY, of Brooklyn, Kings county, New York, have invented a new and Improved Attachment for Gas-Cocks, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved attachment for gas-cocks, which closes the cock by means of a spring, and prevents the cock remaining partly open when the gas is turned off.

The invention consists in the combination, with a gas-cock, of a spring acting on the key and a toothed disk or nut, and a lever for locking the key in place when the cock is open. A chain or cord is secured to the lever, and is pulled when the lever is to be reversed, and the key released to permit the spring to turn it and close the cock.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of a gas-cock provided with my improved attachment. Fig. 2 is a plan view of the same. Fig. 3 is a horizontal sectional view on the line *x x*, Fig. 1.

The gas cock or burner A is provided with the usual key, B. A spiral spring, C, surrounding the key has one end secured to the said key, and the other end is secured to a casing, D, surrounding the spring. The spring C always keeps the cock closed, and when the key is turned to open the cock the spring C swings it back again, and thus closes the cock automatically.

A disk or nut, E, having ratchet-teeth I in its edge, is secured on the key, and on the bracket or cock A a lever, F, is pivoted, one end of which is adapted to engage with the teeth I, and to the opposite end of the lever F a chain or cord, G, is secured.

A spring, H, acting on the lever F keeps one end engaged with the teeth I.

The operation is as follows: The key B is turned to open the cock, and is locked in place by engaging the lever F with one of the teeth I. The gas can then be lighted.

To extinguish the gas it is only necessary

to pull on the cord, wire, or chain G, whereby that end of the lever engaged with the teeth I is raised, and the key B is released and is turned by the spring C, thereby closing the cock effectively and preventing any escape of gas.

When the gas is not to be turned on full, the lever F is engaged with the front tooth. As soon as the cord is pulled the key is released and turned by the spring C.

As a number of teeth I are formed, the cock can be opened more or less, according to the size of the flame desired.

The special advantage of my improvement is, that it closes the cock positively.

It frequently happens that the usual cocks, which are turned by hand, are not closed completely and gas escapes. This is prevented by my improved attachment, as the cock requires a special adjustment for leaving it partly open.

When the key is turned and opened, it is automatically locked in place by the lever F.

In place of the spring shown, any other suitable spring may be used.

I am aware that it is not broadly new to prevent the rotation of a stop-cock key beyond certain limits by means of fixed lugs on the key and seat, and a lever pivoted on the seat, and provided with a bent end passing within the seat to cross the path of the fixed stop on the key, and I claim no such construction.

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

1. The combination, with a gas-key, of the spring C, the toothed disk or nut E, the pivoted lever F, the chain or rod G, and the spring H, substantially as herein shown and described.

2. The combination, with the gas-cock A, having a casing, D, of the key B, the spring C, secured to the key and inside of the casing, the toothed disk or nut E, and the lever F, substantially as herein shown and described.

GEORGE DOUTNEY.

Witnesses:

WILLIAM B. DOUTNEY,
ALEXANDER EWING.