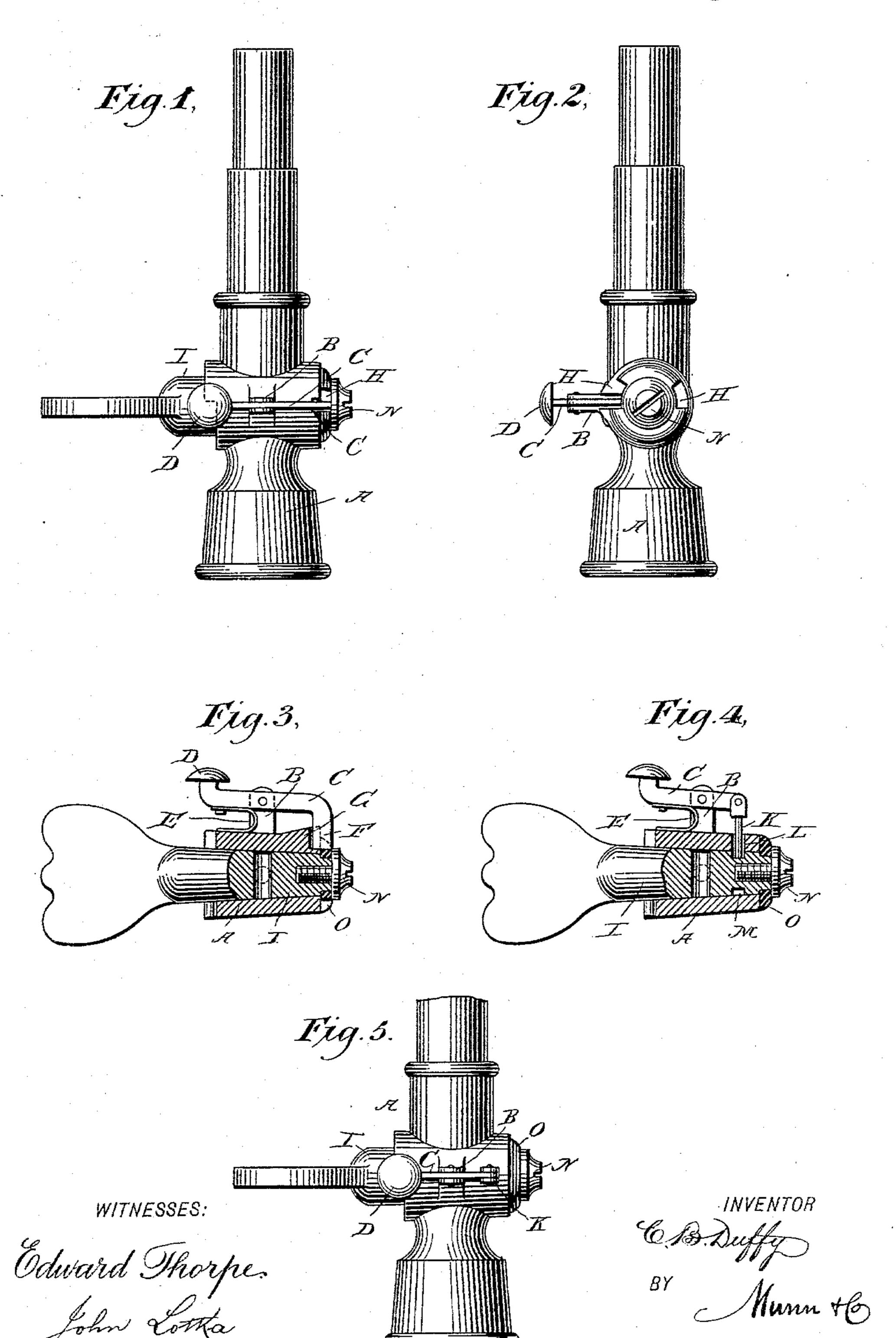
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SAFETY ATTACHMENT FOR GAS COCKS.

No. 564,980.

Patented Aug. 4, 1896.



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CHARLES B. DUFFY, OF NEW YORK, N. Y.

SAFETY ATTACHMENT FOR GAS-COCKS.

SPECIFICATION forming part of Letters Patent No. 564,980, dated August 4, 1896.

Application filed June 14, 1895. Serial No. 552,835. (No model.)

To all whom it may concern:

Be it known that I, CHARLES B. DUFFY, of New York city, in the county and State of New York, have invented a new and Improved 5 Safety Attachment for Gas-Cocks, of which the following is a full, clear, and exact description.

My invention relates to safety attachments for cocks, particularly gas-cocks, and has for its object to prevent the accidental opening of such a cock after it has been turned off.

The invention will be fully described hereinafter and the novel features pointed out in the claim.

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

Figure 1 is a side elevation of a gas-cock provided with my improvement. Fig. 2 is an end elevation thereof. Fig. 3 is a longitudinal section through the cock. Fig. 4 is a similar view of a modification, and Fig. 5 is a side elevation of said modified construction.

In carrying out my invention, as illustrated by Figs. 1 to 3, I provide on the tubular casing or standard A a bracket or support B, in which is fulcrumed a lever C, provided with a knob D, whereby it may be operated by hand and controlled by a spring E, which tends to throw one end F of said lever into engagement with a notch G on the casing A. The notch G and the lever C are preferably so arranged that even when the knob D is fully depressed the end F of the lever C will not leave the notch, so that the lever will never get out of its proper operative position.

The end or foot F of the lever C is adapted to engage one of two notches H, which are provided on the outer end of the plug I of the valve, and I prefer to provide two such notches H, in order that the locking-lever C may come into operation when the plug has been turned either way to cut off the gas. The notches H are of somewhat greater length than the width or thickness of the foot F of the lever C, the object of this construction being that the lever shall engage the said notch and thereby prevent the opening of the cock as soon as the cock has been turned enough to

extinguish the flame. The elongated notch

H then allows the cock to be further and fully closed; but, since the end of the lever C engages with the notch, it will be impossible to open the cock unless the lever is released by 55 pressing on the knob D.

It will be understood that in this manner an accidental opening of the cock after it has been closed is rendered entirely impossible. The improved attachment also prevents accidents caused by persons not acquainted with the proper manipulation of gas-cocks, as such persons will not be able to light a gas-burner provided with my improved attachment unless the operation of the cock and the attach-65 ment is explained to them.

In the construction illustrated by Figs. 1 to 3 I have shown the end of the lever C engaged with the plug I, outside the stem or casing A. This construction I consider the simplest and best. My invention, however, is not limited to such specific construction, and I have shown in Figs. 4 and 5 a modification in which the lever C has pivoted to one of its ends a pin K, passing through an opening L 75 in the casing A, and adapted to engage either of two segmental slots or grooves M, produced on the plug I. It will be obvious that this form of the attachment will operate in exactly the same way as the one described with reference to Figs. 1 to 3.

As the plug I normally is adjustable longitudinally for the purpose of obtaining a tight joint, the grooves M are made of such a width as to allow for the necessary play of the pin 85 K when such longitudinal movement of the plug takes place. This adjustment may be made by any suitable means. The drawings show a screw N engaging the plug, and a washer O interposed between the head of 90 the screw and the casing A.

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

The combination of the casing having a 95 notch, a lever fulcrumed on the casing and extended longitudinally of the valve-plug, with its free end adjacent to the finger-piece of the plug, a projection on said lever adapted to pass through the notch in the casing, a 100 valve-plug having a notch adapted to register with the notch in the casing and to receive

the projection of the lever, the said plug-notch being elongated in the direction of the circumference of the plug, whereby the lever projection may engage in said notch and thus 5 prevent the opening of the cock as soon as it shall have been turned enough to extinguish the flame but allowing a further rotation of

the plug to effect a complete closure, substantially as specified.

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CHARLES B. DUFFY.
Witnesses:

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