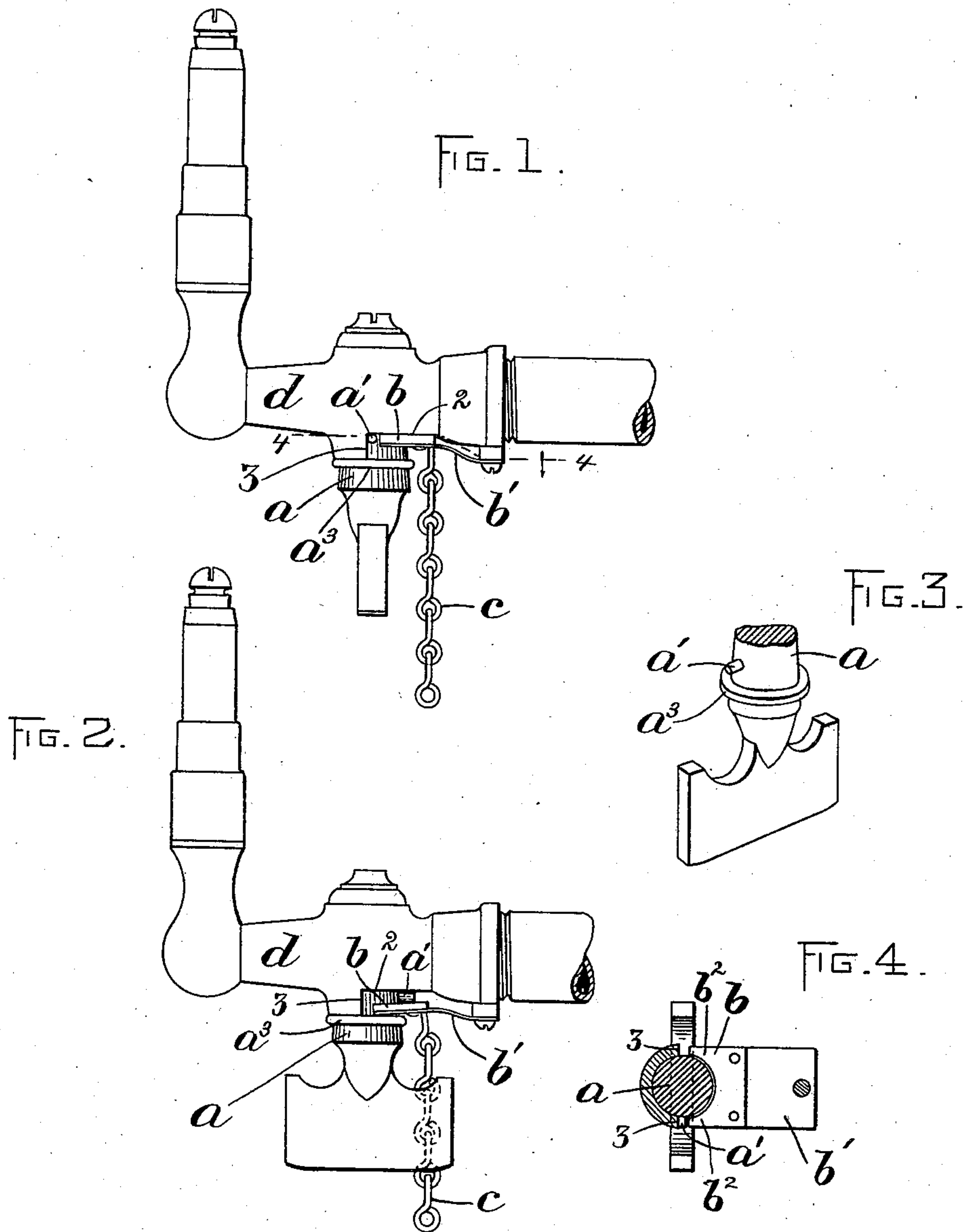


(No Model.)

R. S. WHITTIER & J. N. LANDERS.
SELF LOCKING GAS FIXTURE.

No. 592,183.

Patented Oct. 19, 1897.



WITNESSES:
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UNITED STATES PATENT OFFICE.

REUBEN S. WHITTIER, OF REVERE, AND JOHN N. LANDERS, OF BOSTON,
MASSACHUSETTS.

SELF-LOCKING GAS-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 592,183, dated October 19, 1897.

Application filed February 6, 1897. Serial No. 622,267. (No model.)

To all whom it may concern:

Be it known that we, REUBEN S. WHITTIER, of Revere, and JOHN N. LANDERS, of Boston, in the county of Suffolk, State of Massachusetts, have invented certain new and useful Improvements in Self-Locking Gas-Fixtures, of which the following is a specification.

This invention, which relates to gas-fixtures, has for its object to produce an improved article of this class wherein the cock is locked in position when turned off, and may not be turned on again except by the release of the locking mechanism.

It frequently happens, with the common form of gas fixture or burner, that the cock turns loosely, and that in hurriedly or carelessly extinguishing a flame the person performing the operation again turns on the gas more or less without intending to do so.

The invention is designed to prevent such accidents, and to this end consists of the improvements hereinafter described.

Of the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of a gas-fixture provided with our locking device. Fig. 2 shows the same, with the cock open. Fig. 3 is a detail perspective view of a portion of the cock, with its pin; and Fig. 4 is a horizontal section on line 4 4 of Fig. 1.

The same letters and numerals of reference indicate the same parts in all the figures.

In the figures, *d* represents the casing of a gas-fixture provided with the usual vertical socket, and a cock *a* fitting therein, said cock being provided with the usual stud or pin *a'*. The casing *d* is cut away or recessed on one side of the cock-socket in the ordinary manner, forming a horizontal stop-face 2, and vertical stop-faces 3 3, against which latter the said pin *a'* bears and prevents the entire rotation of the cock *a*.

b represents a recessed detent-plate formed to fit the exposed side of the cock *a*, said detent being mounted on a spring-shank *b'*, which is attached by suitable means to the underside of the casing *d*. The said detent *b* is normally held by the tension of its spring *b'* against the stop-face 2, and is capable of

vertical movement between said stop-face 50 and a flange or shoulder *a*³, formed on the cock *a*.

The detent *b* is so constructed and adjusted that space is left between either of its cusps *b*² *b*² and the stop-faces 3 3 sufficient to admit 55 the pin *a'*. When the cock is turned to its closed position, the said detent *b* springs automatically into place, and locks the said pin *a'*. A pendent cord, chain, or similar member *c* is provided, whereby the spring-detent *b* 60 may be depressed and the pin *a'* released. The cock *a* may then be turned to its open position, the pin *a'* sliding over the upper surface of the detent *b* and keeping it depressed until said cock is again turned off. The de- 65 tent *b* is prevented from swinging sidewise, out of place, by the cusps *b*² *b*², which embrace and closely fit the exposed portion of the cock *a*, and its downward movement is limited by the flange *a*³, which acts as a stop to prevent 70 the bending or breaking of the spring *b*.

We claim—

A self-locking gas-fixture, comprising a casing having a cock-socket, and a recess at one side of the socket, said recess presenting 75 a horizontal stop-face 2 and vertical stop-faces 3 3; a cock fitted to turn in said socket and having a stud or pin *a'* arranged to bear against either of the stop-faces 3 3, and a stop-flange or shoulder *a*³ below the stop-face 2; a 80 spring-supported detent formed to move laterally in the space between the face 2 and flange *a*³, and normally in position to engage the pin *a'* when the cock is in its closed position, said detent being provided with a pend- 85 ent operating device and arranged so that its downward movement by said device is limited by the flange *a*³, while its upward movement by the spring is limited by the stop-face 2.

In testimony whereof we have signed our 90 names to this specification, in the presence of two subscribing witnesses, this 1st day of February, A. D. 1897.

REUBEN S. WHITTIER.

JOHN N. LANDERS.

Witnesses:

A. D. HARRISON,

P. W. PEZZETTI.