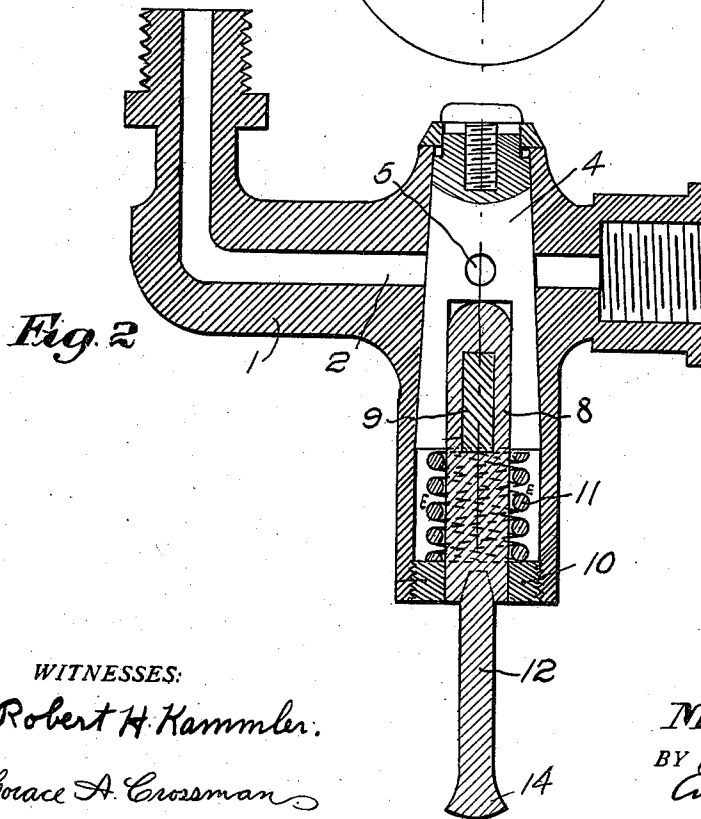
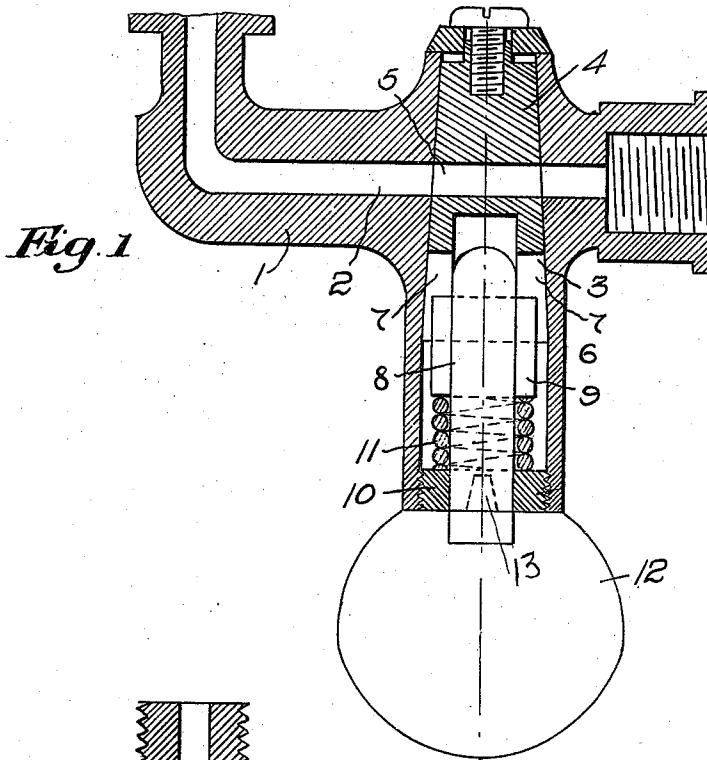


M. POPKIN.  
GAS VALVE.  
APPLICATION FILED APR. 8, 1909.

984,701.

Patented Feb. 21, 1911.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

MORRIS POPKIN, OF MALDEN, MASSACHUSETTS.

GAS-VALVE.

984,701.

Specification of Letters Patent.

Patented Feb. 21, 1911.

Application filed April 8, 1909. Serial No. 488,548.

*To all whom it may concern:*

Be it known that I, MORRIS POPKIN, a citizen of the United States, residing at Malden, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Gas-Valves, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to gas and other valves and is intended more particularly to provide means for securing or locking the valve closed.

In order that the principles of my invention may be readily understood, I have disclosed an embodiment thereof in the accompanying drawing, wherein—

Figure 1 represents a vertical transverse section upon the broken line Fig. 2, of the gas valve embodying my invention in its open position; and Fig. 2 is a similar view upon the broken line Fig. 1 representing the valve as closed.

Gas valves as commonly constructed are provided externally of the fitting with a shoulder against which the valve key is turned in closing. It frequently results, however, that the key is not turned into engagement with the shoulder and that the gas leaks. Moreover such shoulder does not positively hold the valve closed. The valve embodying my invention is of the usual rotary type, but is provided with means for positively locking the valve closed, thus absolutely preventing the escape of gas when the burner is not in use, by insuring the closing of the valve and preventing accidental opening thereof.

Referring more particularly to the drawings the valve fitting is represented at 1, it being of any suitable construction and being provided with a gas or fluid passage 2 therein. The fitting is provided with a seat 3, within which is secured in any usual manner a rotary valve 4 provided with the usual port 5 adapted when in the position shown in Fig. 1 to supply the gas to the burner. I provide suitable means to lock or secure the valve 4 positively closed. In order to accomplish this purpose I, in this embodiment of my invention, provide the valve 3 with a substantially axial recess or socket 6 having lateral enlargements 7—7. Within the socket 6 is positioned a sliding member 8 provided with a head 9. Between the

head 9 and the threaded plug 10 received within the fitting, is interposed a spiral spring 11 tending normally to force the sliding member 9 toward the valve 4. The sliding member 8 protrudes through the plug 10 and is provided with a turning key or thumb piece 12. The plug 10 is provided with a transverse socket 13 shown in dotted lines in Fig. 1 and into which the adjacent edge of the key 12 is drawn by the spring 11 when the valve is in closed position, as indicated in Fig. 2. Viewing said Fig. 2, it will be apparent that so long as the key 12 is seated in the socket 13, it is impossible to turn the valve 4. In order to open the valve the key 12 must be drawn outward from the socket 13. Then by slightly turning the key it is received upon the flush surface of the plug 10 and can then be turned to any desired extent to open the valve more or less. When, however, the key has been turned through 180° it is automatically seated in the socket 13 by the spring 11, thus positively holding the valve closed. As shown in Fig. 2, the outer end of the key 12 is preferably flared as indicated at 14 so that any suitable turning device may be engaged therewith by sidewise movement of such device, after which such device may be drawn outward so as to withdraw the key from the socket 13, whereupon the device and key may be rotated.

It is apparent from the foregoing description that a valve constructed in accordance with my invention is positively held closed so that it cannot be accidentally opened after closing. Moreover, the user will not carelessly neglect to turn the key to its closing position when it is known that the key must be turned until it slips into the socket 13.

Having thus described one illustrative embodiment of my invention, I desire it to be understood that although specific terms are employed they are used in a generic and descriptive sense and not for purposes of limitation, the scope of the invention being set forth in the following claims.

1. A gas cock valve or the like comprising a valve seat, a rotary valve seated therein, said casing being prolonged longitudinally of and beyond said valve to form a fixed housing and having a notched end, and said valve being longitudinally socketted, a member longitudinally movable in said socket and positioned within said hous-

ing, and having a lateral projection and a terminal key directly to engage said notched portion of the housing, and a coiled spring within said housing and surrounding said member and engaging said projection to  
5 force said member into said socket.

2. A gas cock valve or the like comprising a valve seat, a rotary valve seated therein, said seat having a fixed, externally notched  
10 portion extending beyond said valve and said valve having an open ended longitudinal socket, a member 8 slidable in said socket and having at its outer end a key  
to engage said notched portion, and a coiled  
15 spring surrounding said member 8 and engaging the same and said valve seat, and serving normally to retract said member 8  
within said socket.

3. A gas cock valve or the like comprising a valve seat, provided with a fixed part

having a thumb piece receiving notch, a rotary valve positioned in said seat and provided with a gas port and with a longitudinal socket located wholly longitudinally beyond said gas port, a member slidably positioned in said socket and provided  
25 with an exposed, terminal thumb piece shaped to engage said notch and to be turned to operate the valve, and a spring acting upon said member to retract it within  
30 the socket after being drawn therefrom by said thumb piece and to engage said thumb piece with said notch.

In testimony whereof, I have signed my name to this specification, in the presence  
35 of two subscribing witnesses.

MORRIS POPKIN.

Witnesses:

IRVING U. TOWNSEND,  
HORACE A. CROSSMAN.