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W. O. KAISER

LOCK FOR VALVES

Filed May 31, 1922

Fig. 1

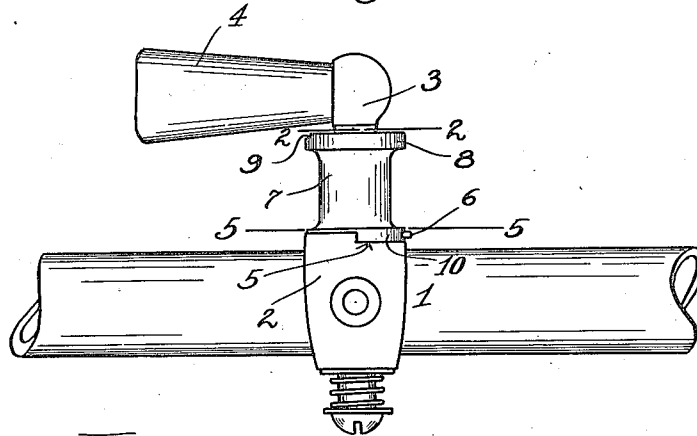


Fig. 2

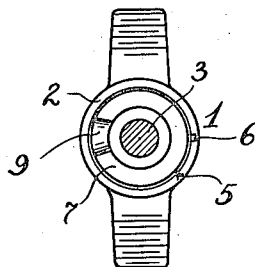


Fig. 3

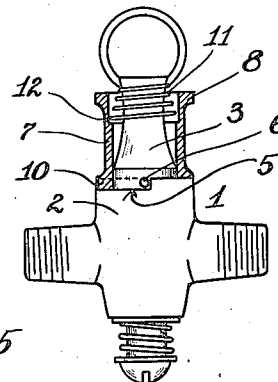


Fig. 4

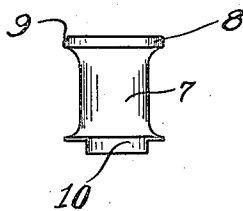
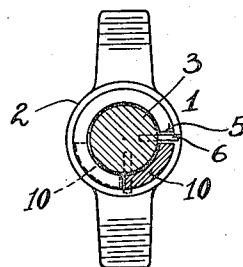


Fig. 5



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UNITED STATES PATENT OFFICE.

WILLIAM O. KAISER, OF OAKLAND, CALIFORNIA.

LOCK FOR VALVES.

Application filed May 31, 1922. Serial No. 564,833.

To all whom it may concern:

Be it known that I, WILLIAM O. KAISER, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Locks for Valves, of which the following is a specification.

My invention is an improved lock for valves, and particularly for gas cocks.

The object of my invention is to provide a lock for the standard form of gas cock which may be easily applied with no change in the structure of the gas cock.

Another object of my invention is to provide a lock which is simple in construction, inexpensive to manufacture and efficient in operation.

Referring to the drawing which forms a part of this specification:

Figure 1 is a front view of my valve lock in position on a gas cock.

Figure 2 is a sectional view taken on the line 2—2 of Figure 1.

Figure 3 is a side view of a gas cock with the lock in section.

Figure 4 is a side view of the locking sleeve.

Figure 5 is a sectional view taken on the line 5—5 of Figure 1.

Referring more particularly to the drawing, the numeral 1 indicates a gas cock of a well known construction, which comprises a body 2 and a plug 3 within said body. A handle 4 is suitably secured to the plug 3. In the upper edge of the body 2 is formed a notch 5, and projecting into said notch is a pin 6 which is secured to the plug 3. The pin 6 moving in the notch 5 determines the open and closed positions of the gas cock as will be readily understood.

A sleeve 7 surrounds the plug 3 above the cock body 2 and below the handle 4, and of a sufficient height to have a slight vertical movement between said body and handle. A flange 8 is formed in the upper end of the sleeve 7, the purpose of which will be described later. A notch 9 is formed in the upper face of the sleeve 7 to receive the handle 4. A segmental flange 10 depends

from the lower edge of the sleeve 7 and in the closed position of the cock rests in the notch 5 between the pin 6 and the end of said notch. A spring 11 surrounds the upper end of the plug 3 and rests upon a shelf 12 in the sleeve 7.

The method of operation of my lock is as follows: The sleeve 7 is moved upwardly against the spring 11 by means of the flange 8 until the flange 10 clears the body 2; the notch 9 now fits in the handle 4 which compels the sleeve to turn with said handle. The handle can now be rotated to open the valve and the sleeve 7 rests upon the top of the body 2. When the handle is rotated to the closed position, the spring 11 forces the flange 10 downward into the notch 5 and the plug is held in this position until the sleeve is again raised.

Having described my invention, I claim:

1. In combination with a valve comprising a body and a plug a handle on said plug, a retractible sleeve surrounding said plug, means on said sleeve whereby the plug may be held in closed position, and a notch in said sleeve cooperating with said handle when said sleeve is retracted whereby the sleeve and plug may rotate together.

2. In combination with a valve comprising a body and a plug, a pin in said plug adapted to project into a notch in the body, a sleeve surrounding said plug, a flange depending from said sleeve into the body notch, and means for withdrawing said flange, whereby after the movement of withdrawal of said flange said plug and sleeve interengage for simultaneous rotation.

3. In combination with a valve having a body, a plug and a handle on said plug, a pin in said plug adapted to project into a notch in the body, a sleeve surrounding said plug, a flange depending from said sleeve and adapted to coact with said body notch, a flange on the upper end of said sleeve, a notch in said upper flange adapted to receive said handle, a shelf in said sleeve, and a spring bearing against said shelf.

In testimony whereof I affix my signature.

WILLIAM O. KAISER.