

J. J. COMER.
 LOOK FOR GAS COCKS.
 APPLICATION FILED JAN. 18, 1911.

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1,016,872.

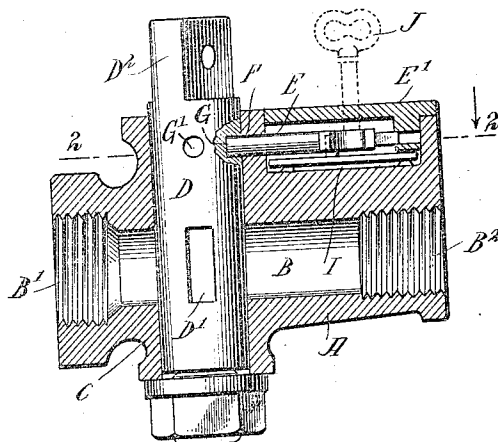


Fig. 1.

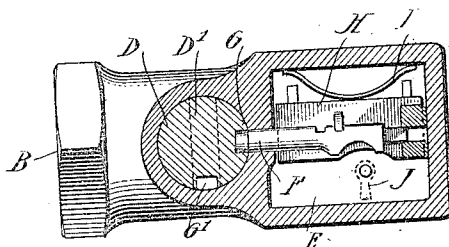


Fig. 2.

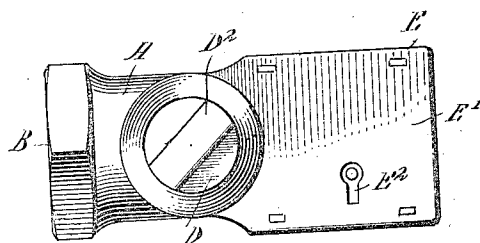


Fig. 3.

WITNESSES

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LOCK FOR GAS-COCKS.

1,016,872.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN J. COMER, a citizen of the United States, and a resident of the city of New York, Queens, borough of Queens, in the county of Queens and State of New York, have invented a new and Improved Lock for Gas-Cocks, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved lock for gas cocks, which is very simple in construction, not liable easily to get out of order, and arranged to permit the owner of a building, loft, or other place, to lock the gas cock against opening or closing by unauthorized persons. For the purpose mentioned, use is made of a key-controlled bolt mounted to slide in a casing forming an integral part of the body of the gas cock, the said bolt being adapted to engage recesses formed in the plug of the gas cock inside of the seat for the same to hold the said plug against turning, either when turned on or when turned off.

A practical embodiment of the invention is represented in 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 sectional side elevation of a gas cock provided with the lock; Fig. 2 is a sectional plan view of the same on the line 2—2 of Fig. 1; and Fig. 3 is a plan view of the same.

The body A of the gas cock is provided with the usual bore B terminating at one end in an inlet B' and at the other end in an outlet B². A seat C extends through the body A and intersects the bore B, and in the said seat C is mounted to turn a tapering plug D, provided with a port D' adapted to connect or disconnect with the bore B, so as to connect the inlet with the outlet or to disconnect the same from each other. The plug D is provided at its outer end with an offset D² for the reception of a handle or a similar device employed for turning the plug D into an open or an extended position.

On the body A is formed an integral lock casing E in which is mounted to slide a bolt F passing through the inner wall of the casing E into the seat C for engagement with a recess G or G' formed in the peripheral face of the plug D. The recesses G and G' are so arranged relative to the port D' that

when the latter is in the closed position shown in the drawings then the bolt F engages the recess G, and when the plug D has been given a quarter turn to bring it into open position with the port D' in register with the bore B, then the said bolt F engages the other recess G'.

The bolt F is provided at one side with spaced notches and is locked either in a forward or a retracted position by a tumbler H provided with means for engaging either of said notches, the tumbler being mounted to slide in the casing E and pressed on by a spring I, the said tumbler H and the bolt F being controlled by a key J adapted to be inserted through a keyhole E² formed in the removable cover E' of the casing E.

When the several parts are in the position shown in the drawings, the plug D is locked in a closed position by the bolt F engaging the recess G, and when it is desired to open the plug D the operator uses the key J to retract the bolt F to permit of turning the plug D into an open position, and when this is done the bolt F is moved outward by the key to engage the bolt with the recess G', and thus lock the plug D in open position.

It is understood that the owner of the cock or the building in which this gas cock is located, is in possession of the key J, and hence the plug D cannot be turned by an unauthorized person.

It will be noticed that the bolt F is concealed and is not accessible, and the casing E by forming an integral part of the body A cannot readily be broken and the effectiveness of the lock destroyed, as is the case with separate casings and bolts arranged outside of the body A for locking the key D in place.

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

1. A gas cock, comprising a body provided with a bore having an inlet and an outlet, an integral seat formed in the said body, and an integral lock casing provided at its top with a cover having a key hole for the insertion of a key, a plug mounted to turn in the said seat and having a port adapted to register with the said inlet and the said outlet, the said plug being provided at its outer end with an offset for the reception of a device for turning the plug, the plug having peripheral recesses within the said seat at right angles to each other,

a key-controlled bolt mounted to slide in the said lock casing and adapted to pass through the inner wall of the casing into the said seat to engage the said plug recess in register at the time with the said bolt to lock the plug against turning, the bolt when in engagement with one of said recesses holding the plug in open position, and when in engagement with the other recess holding said plug in closed position, and a spring-pressed and key controlled tumbler mounted to slide in the said lock casing for locking the bolt in forward or retracted position.

2. A gas cock, comprising a body having an inlet, an outlet, a plug seat and an integral lock casing provided at its top with a cover, the latter having a key-hole for the insertion of a key, a plug mounted to turn in the said seat and having a port adapted to register with the said inlet and outlet, the said plug having peripheral recesses with-

in the said seat at right angles to each other, a bolt mounted to slide in the said lock casing and adapted to engage either of the said plug recesses to lock the plug in closed or open position, the said bolt being provided at one side with spaced notches, a spring-pressed tumbler mounted to slide in the said lock casing below the bolt and provided with means for engaging either of said notches to lock the said bolt in forward or retracted position, and a key adapted to be inserted through the said key-hole for controlling the said tumbler and bolt.

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

JOHN J. COMER.

Witnesses:

FREDERICK W. DOTZAUER,
ALBERT C. DONNELLY.