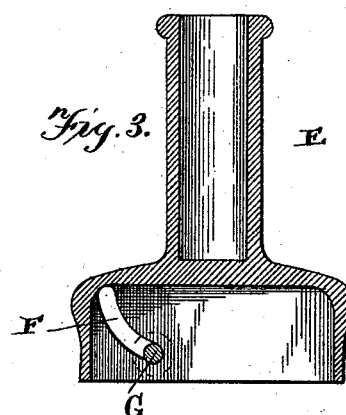
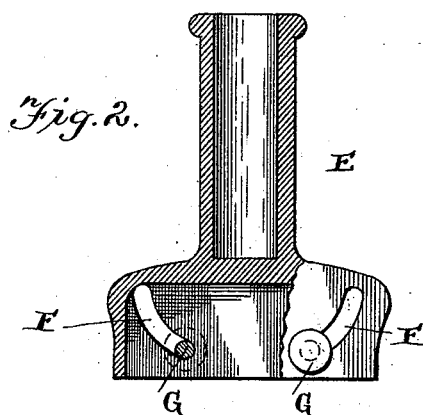
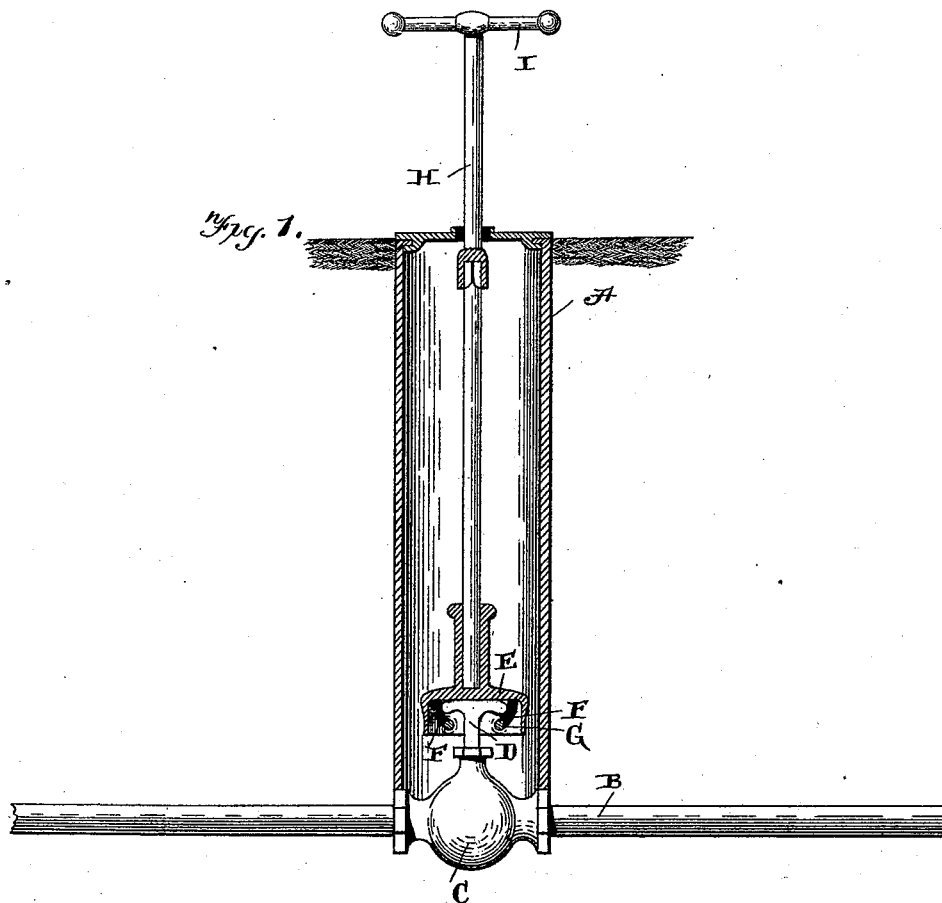


(No Model.)

C. Q. HAYES.  
HYDRANT.

No. 525,268.

Patented Aug. 28, 1894.



WITNESSES.  
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# UNITED STATES PATENT OFFICE.

CALVIN Q. HAYES, OF CHICAGO, ILLINOIS.

## HYDRANT.

SPECIFICATION forming part of Letters Patent No. 525,268, dated August 28, 1894.

Application filed May 23, 1894. Serial No. 512,227. (No model.)

*To all whom it may concern:*

Be it known that I, CALVIN Q. HAYES, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful  
5 Improvements in Hydrants; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being  
10 had to the accompanying drawings, which form part of this specification.

My invention relates to an improved hydrant; and the object of the same is to provide  
15 the valves in hydrants and street water boxes.

The invention consists in the novel features of construction hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

20 Figure 1 is a vertical sectional view of a water box arranged over a valve with my improved clamp in position thereon. Fig. 2 is a detail view of the clamp. Fig. 3 illustrates a slight modification.

25 A designates the water box arranged on the street or in the basement of a house which extends down to the service pipe B having the check valve C therein which has the T-shaped turning stem D. In order to turn this  
30 valve from the upper end of the box A I provide the vertically recessed head E having the upwardly diverging curved slots F cut transversely therein and adapted to move in said slots are the catch pins or clutches G.  
35 Extended upward from the head is the rod H operated by handle I at its upper end. The said head and rod are positioned permanently in the water box, and when the head is to be attached to the T-shaped turning stem D it  
40 is forced down until the movable catches G come in contact therewith and the continued downward movement of the head forces the catches upward in the curved slots and this upward movement separating them permits  
45 the stem to pass therebetween, when the catches will at once return to the bottoms of the slots and beneath said stem so that the latter is securely bound in the head and from

which it cannot slip. The head fitting over the stem acts as a wrench and when turned adjusts  
50 the cock to the position desired for turning either on or off the water. By using this simple and inexpensive device it secures a permanent hold on the valve stem which cannot become detached, as is often the case with  
55 the ordinary connection between the rod and valve stem which necessitates digging down to the base of the water box for the purpose of repairing it.

The head may be formed as shown in Fig. 60 3 with but one sliding pin for engaging the head, and when this construction is used the device is more simple and quite as effectual in performing its function.

Having thus fully described my invention, 65 what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a service pipe, a valve therein having a stem, an operating rod, a head at its lower end having upwardly ex- 70 tending diverging slots, catch pins movable in said slots which are adapted to engage the valve stem in the manner shown and described.

2. The combination of a service pipe, a valve therein having a T-shaped stem, a head having upwardly diverging slots, catch pins movable therein for engaging the said stem in the manner described, and a rod extended 80 from the head, substantially as specified.

3. The combination of a service pipe, a valve therein having a stem, an operating rod, an upwardly recessed head on the lower end of the rod which is adapted to fit over the valve stem, the said head being formed with 85 upwardly extending diverging slots on its opposite sides, and catch pins extending across the recess of the head and adapted to move in said slots when engaging the valve stem in the manner shown and described. 90

In testimony whereof I affix my signature in presence of two witnesses.

CALVIN Q. HAYES.

Witnesses:

O. C. DECKER,  
J. B. GODMELL.