Aug. 28, 1928. 1,682,154

A. C. VAN HOUSE

PUSH BUTTON FAUCET

Filed Aug. 1, 1921

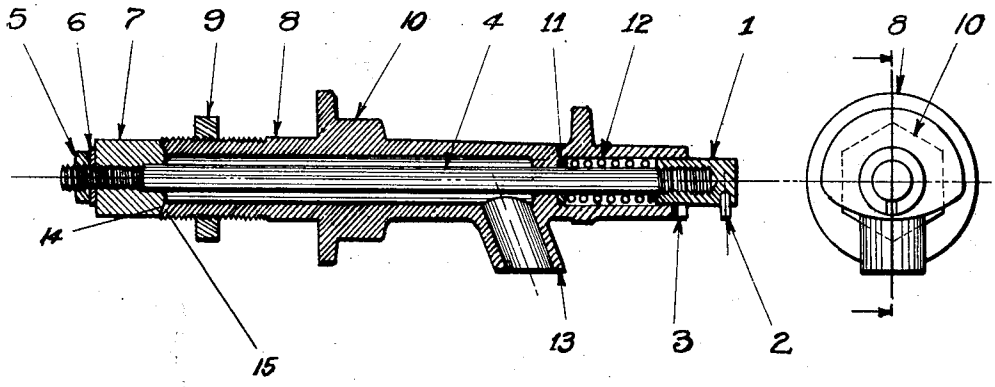


FIG. 1

FIG. 2

A. C. VanHouse

INVENTOR

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ALANSON CLARK VAN HOUSE, OF OAKLAND, CALIFORNIA.

PUSH-BUTTON FAUCET.

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This invention relates to a new and improved faucet which is positive in action and in which leakage around the valve seat is prevented.

This invention further provides for an automatic means for closing the valve when the push button operating the same is released.

In the drawings,

Figure 1 is a longitudinal section thereof and

Figure 2 is an end view of the same looking toward the right of Figure 1.

1 is a push button slidably fitting in one end of the bore of the tubular valve body 8.

The push button 1 is provided with a stop pin 2 adapted to slide into a slot 3 in the valve body 8 which slot coacting with the pin prevents the push button from rotating relative to the valve body.

Abutting the partition in the bore of the valve body or casting which forms the end of the recess in which the push button 1 is mounted is a packing ring 11 and a spring 12 is provided between the packing ring 11 and the push button 1, through which spring extends a valve guide 4 connected at one end to the push button 1 by means of threads or otherwise and having a valve member 7 threaded on its opposite end which valve member is held on the valve guide by means of a nut 5 and a washer 6. The inner end of the valve member has a convex face 15 which is adapted to abut a concave valve seat 14 on the valve body 8.

A nut 9 may be provided whereby the valve body 8 is fastened to a containing vessel, not shown.

A hexagon 10 is formed intermediate the ends of the valve body 8 and integral therewith so that the valve body shall not be deformed when placing the same in the containing vessel and also serves as a means for strengthening the body portion of the same.

When an impressed force greater than the pressure exerted by spring 12 is applied to the push button 1, the valve member 7 will be moved outwardly from the valve seat 14 thereby allowing a fluid, either liquid or gaseous, to flow between the valve seat 14 and valve face 15, between the valve guide 4 and the valve body 8 and out of the nozzle 13. As soon as the pressure on the push button is relieved the spring 12 will force the push button and the valve guide to the right thereby closing the valve 7 by bringing the valve seat 14 and valve face 15 together.

While I have specifically described one form of my invention it is obvious that many changes may be made therein without departing from the spirit thereof. I therefore do not limit myself to the specific form shown herein except as I may limit myself by the annexed claim.

Having described my invention, what I claim and desire to have protected by Letters Patent is:

A device of the type described comprising a tubular-shaped casting, a partition disposed in the bore of said casting and having a guide opening therein, a valve guide disposed in said bore and being slidably received in said opening, a push button adapted to be slidably received in said bore, to be guided thereby, and being threaded onto said valve guide, a spring disposed between said partition and said button, said casting having a slot therein, a stop pin carried by said push button adapted to engage in said slot for limiting the movement of said valve guide and for preventing rotation of said guide with respect to said casting, said casting having an outlet pipe and having an inlet opening, and a concave seat surounding said opening, a valve secured to said valve guide and having a convex portion adapted to be received in the concave seat of said casting, said valve being entirely exposed, and means for securing said valve to said valve guide.

A. C. VAN HOUSE.