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FAUCET.

APPLICATION FILED NOV. 24, 1909.

1,069,871. Patented Aug. 12, 1913.

Fig. 1.

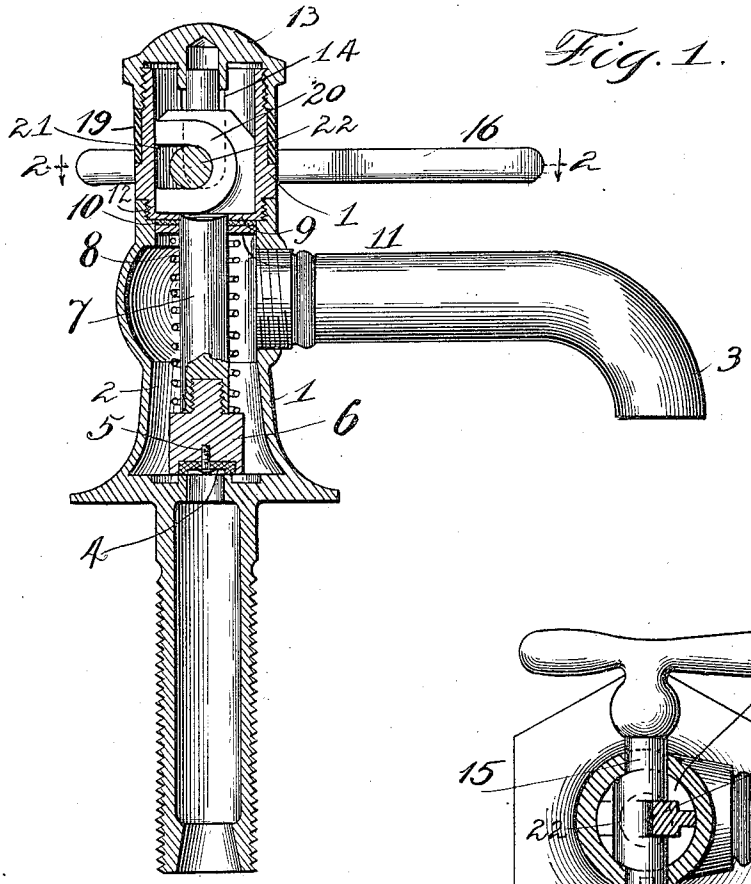


Fig. 2

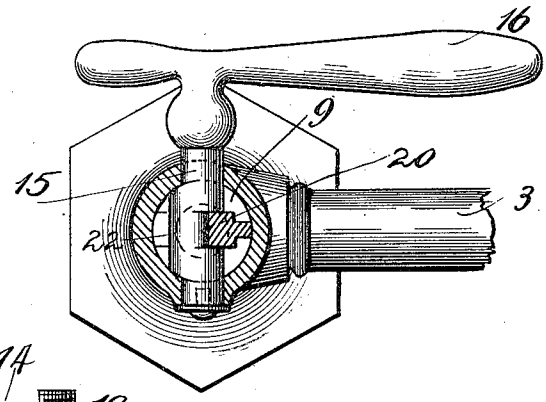
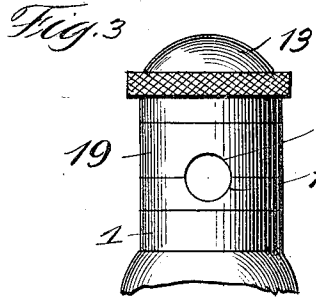


Fig. 3



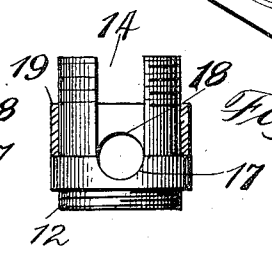


Fig. 4.

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FAUCET.

1,069,871. Specification of Letters Patent. Patented Aug. 12, 1913.

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To all whom it may concern:

Be it known that I, FRANK P. GILLETT, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Faucets, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to faucets, and has for its general object improvement in the construction of faucets whereby they may be very readily assembled and disassembled.

As the invention is preferably embodied, the working parts may be separately assembled as a unit and thereafter united with the main part of the faucet casing, the casing being that part of the faucet structure from which the faucet nozzle projects and which houses the working parts of the faucet structure.

I will explain the working parts of my invention as it is preferably practiced, by reference to the accompanying drawing in which—

Figure 1 is an elevation, partly in section, of a faucet constructed in accordance with the invention, Fig. 2 is a sectional plan view on line 2 2 of Fig. 1, and Figs. 3 and 4 are respectively elevation and sectional elevation of the top of the faucet casing.

Like parts are indicated by similar characters of reference in all views.

The faucet shown is of a common type as viewed from the exterior, there being indicated a casing 1 comprising upper and lower sections and having a vertical bore 2 and a discharge faucet mouth communicating with said vertical bore. The water rises within the lower portion of the bore 2 the passage of which to the mouth 3 is normally prevented by a valve 4, made of some suitable material, as some rubber composition. This valve 4 is secured in position by a screw 5 that passes through the center of the valve into the plunger section 6 in screw threaded connection with the main section 7 of the plunger. The portion 7 of the plunger is preferably reduced in diameter so that a spring 8 may conveniently surround the same and may find lodgment upon the lower plunger section 6. The upper end of the spring is positioned by a plate 9 that is an integral part of the upper section of the faucet casing, said plate 9 constituting an abutment. The plate or abutment 9 is faced by a packing 10 that prevents the water from rising into the upper part of the faucet casing, and this packing is held against the abutment 9 by a washer 11 that is directly engaged by the spring and held thereby against the packing.

The portion of the faucet casing that carries the abutment 9 is preferably formed in a section that is separably secured to the balance of the casing which carries the faucet mouth, by means of threads as indicated at 12. The upper section of the casing has a cap piece 13 screw threaded so as to be separably engaged with the upper section of the casing, which is correspondingly screw threaded. The upper part of the casing is provided with opposite slots 14 for the reception of a shaft 15 which is operated by a handle 16. The upper section of the casing carries the shaft 15. Semicircular recesses 17 are provided in the casing to act as part of the bearings for the shaft 15, the balance of these bearings being afforded by complemental semi-circular recesses 18 in a collar 19 that is slipped over the upper end of the casing. The cap piece 13 holds the collar 19 in place. The upper end of the plunger terminates in an operating element 20 that has a cam slot 21 in which the actuating element 22, provided upon the shaft 15, moves back and forth. The cam slot thus coöperates with the crank shaft 15 to effect the unseating of the valve when the faucet handle is depressed, the spring 8 automatically seating the valve when the faucet handle is released.

The faucet of my invention has many advantages which will be readily appreciated by those skilled in the art. For example, it is apparent that all of the operating mechanism may be mechanically associated with the upper section of the faucet casing independently of the lower, whereafter the two parts of said casing may be united. The working parts may also be readily disassembled. Moreover the abutment 9 is of the simplest nature.

While I have herein shown and particularly described the preferred embodiment of my invention, I do not wish to be limited to the precise construction shown, but

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

A faucet structure including a casing separately formed in two parts and thereafter assembled with one part above the other, the under part of the casing having a fluid conveying channel and provided with a faucet mouth in communication with said channel for the discharge of liquid from the faucet, and a valve opening for permitting the flow of liquid into said channel; a plunger valve whose stem travels in both casing sections, a spring within the channel of the under casing section for seating the plunger valve when valve opening influence is absent; an abutment carried at the bottom of the upper section of the casing and provided to enable the aforesaid spring to seat the valve; a cam shaft journaled in the upper casing section and provided for operating the plunger valve in opposition to the aforesaid spring, the upper section of said casing having slots permitting the location of said cam shaft in position and terminating in bearing recesses for said shaft, a collar provided with bearing recesses complemental to the first mentioned bearing recesses, said cam shaft working within the bearings afforded by the bearing recesses and a cap piece in engagement with the upper end of the upper casing section and also with said collar thereby to hold the collar in position, said upper casing section, plunger valve, spring, collar, abutment, cam shaft and cap piece being assembled as a unit independently of the lower casing section thereby to promote the facility with which the faucet parts may be assembled.

In witness whereof, I hereunto subscribe my name this 30th day of October A. D., 1909.

FRANK P. GILLETT.

Witnesses:
G. L. CRAGG,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."