

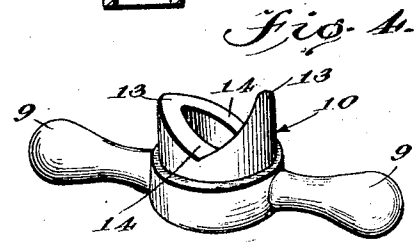
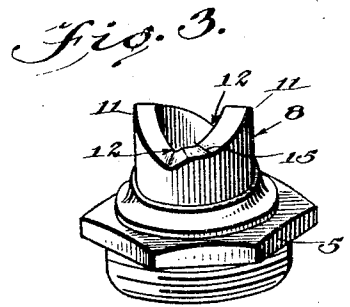
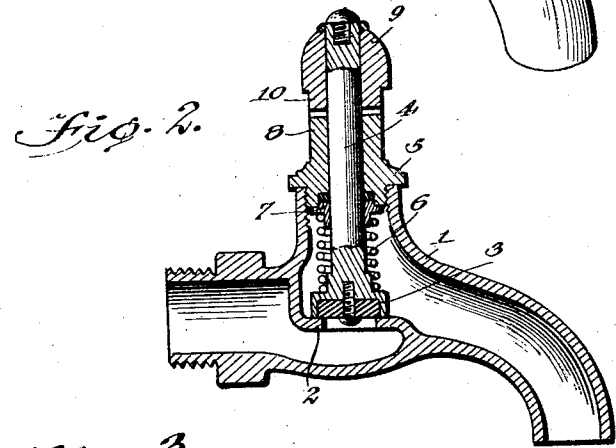
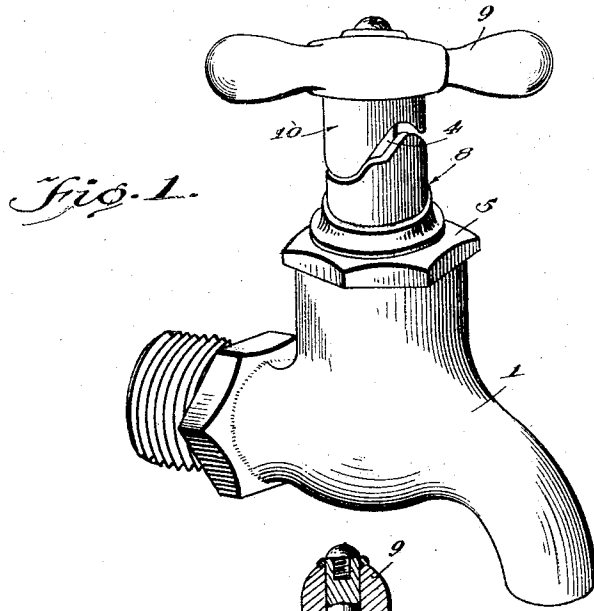
Sept. 15, 1925.

1,553,447

J. M. JACKSON

FAUCET

Filed Jan. 13, 1925



WITNESSES

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# UNITED STATES PATENT OFFICE.

JAMES MADISON JACKSON, OF PARKERSBURG, WEST VIRGINIA.

## FAUCET.

Application filed January 13, 1925. Serial No. 2,198

*To all whom it may concern:*

Be it known that I, JAMES M. JACKSON, a citizen of the United States, and a resident of Parkersburg, in the county of Wood and State of West Virginia, have invented certain new and useful Improvements in Faucets, of which the following is a specification.

This invention relates to an improvement in a self-closing faucet or spigot and aims to provide in a device of this character wherein the faucet may be releasably held partially open to provide for a continuous and steady stream of water but wherein the faucet is automatically closed when not manually held in its extreme open position or when not manually held in any intermediate position except the one predetermined position at which it is designed to be releasably held open.

Another object is the provision of a device of this character which is of simple and durable construction, reliable in operation, easily manipulated and controlled and comparatively inexpensive to manufacture.

Other objects and advantages reside in certain novel features of the construction, arrangement, and combination of parts which will be hereinafter more fully described and particularly pointed out in the appended claims, reference being had to the accompanying drawings forming a part of this specification and in which;

Figure 1 is a perspective view showing one embodiment of the invention.

Figure 2 is a central and vertical longitudinal section.

Figure 3 is a detailed perspective view of the top or cap of the faucet; and

Figure 4 is a perspective view of the cam of the handle, the handle being inverted to show the cam more clearly.

Referring to the drawings, the numeral 1 designates the body of the faucet which is of conventional construction and which has a ported partition 2 controlled by a valve 3 carried on a stem 4. The stem 4 extends up through and beyond a cap 5 and is rotatably and slidably fitted in a bearing provided therefor in the cap. A coil spring 6 encircles the stem 4 and engages the valve 5 and the packing 7 of the cap 5 for the purpose of urging the valve 3 to position to close the port of the partition 2.

The cap 5 is threaded into the body of the faucet in the usual manner and in the as-

sembly this cap 5 is fixed in rigid. An upwardly extending cam designated generally at 8 is integrally formed with the cap 5, the cam 8 being of tubular or sleeve like form and snugly embracing the stem 4.

A handle 9 is suitably fixed to the upper end of the stem 4 and this handle 9 has integrally formed therewith or suitably connected thereto a downwardly extending cam designated generally at 10 and designed to coact with the cam 8.

The cam 8 is provided with projections 11 located at the front and rear of the faucet and this cam 8 is also provided with recesses 12 located at the sides of the faucet. Similarly, the cam 10 is provided with projections 13 located at the sides of the faucet and with recesses 14 located at the front and rear of the faucet. The projections and recesses 11, 12, 13 and 14 are approximately of V-shaped form and in the assembly the coil spring 6 pulls the stem 4 downwardly to cause the projections 13 of the cam 10 to be brought down into the recesses 12 of the cam, the projections 11 of the cam 8 being accommodated in the recesses 14 of the cam 10. The walls or edges of the projections and recesses are substantially smooth and inclined except as will be hereinafter described and consequently the valve 3 will be held closed by the spring 6 at all times except when the handle 9 is not only grasped and turned to cause the projections 13 to ride up the projections 11 but also manually held to prevent the projections 13 from automatically riding down in the projections 11.

In order that the valve 3 may be held part way open when it is desired to have a steady and continuous stream flow from the faucet, the projections 11 are formed with notches 15 in which the lower ends of the projections 13 may be seated to releasably hold the valve 3 partly open even when the handle 9 has been released. One of the primary objects of self-closing valves is the prevention of overflow from basins or tubs should the spigot be left open. These self-closing faucets have been necessary because of the fact that ordinarily a faucet will supply more water than the waste pipe or the overflow pipe can carry off. The present invention serves this purpose and yet also provides for a continuous and steady stream when the same is desired. The steady stream is had by partially opening the spigot or faucet and since the spigot or faucet is not

held open to its full capacity the waste pipe or the overflow pipe can well serve to carry off the water should the spigot be accidentally left in partially open position. If it is desired to have the spigot deliver water at its full capacity then the handle 9 must be manually held and as soon the handle 9 is released the spigot will be automatically closed, the projections 13 riding down past and over the notches 15.

I claim:

A self-closing faucet having a body, a spring-closed valve in the body, a handle for opening the valve and co-acting cams controlling the valve and comprising a sleeve connected with the handle, a sleeve connected with the handle and turnable therewith,

a sleeve connected with the body and fixed relative thereto, said sleeves having interfitting projections and recesses of approximately V-shape form, one of said cams having notches adjacent but slightly spaced from the bottoms of its recesses, said notches providing seats adapted to receive and hold the projections of the other cam when the handle is shifted to engage said projections with said seats, said valve being releasably held in partially open position when the projections are engaged with said seats, said projections and said seats being designed so that the projections will ride down over the seats when the handle is released with the valve in fully open position.

JAMES MADISON JACKSON.