

H. R. CORBETT.
FAUCET.
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1,044,143.

Patented Nov. 12, 1912.

FIG. 1.

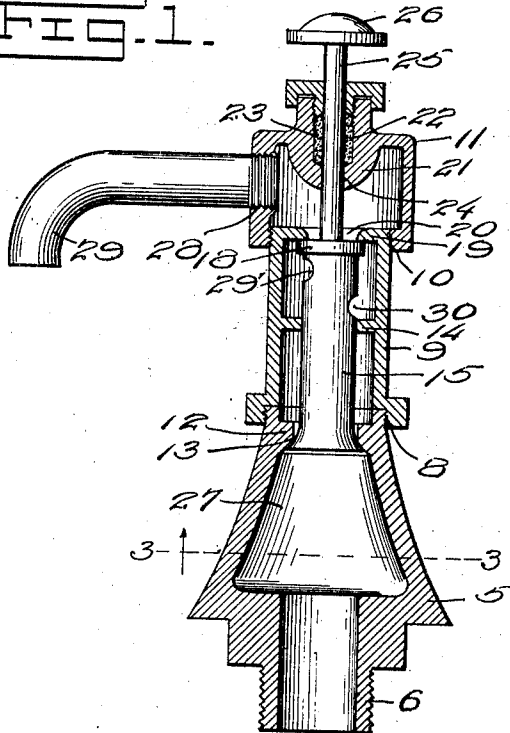


FIG. 2.

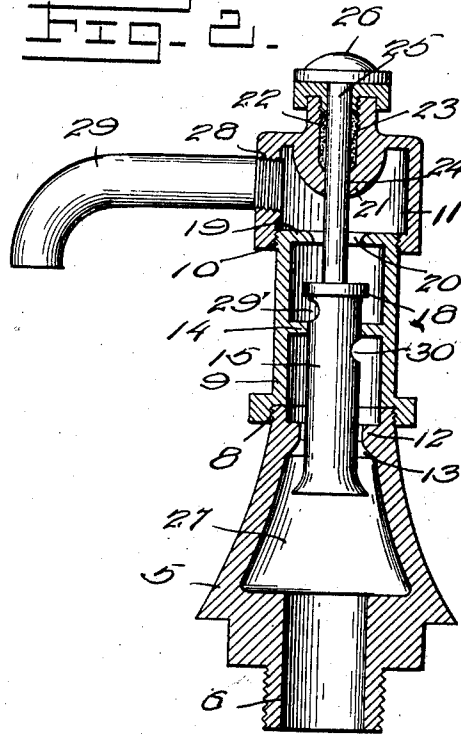


FIG. 3.

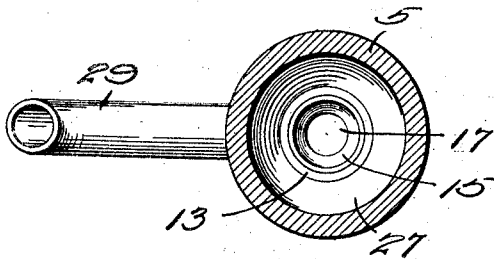
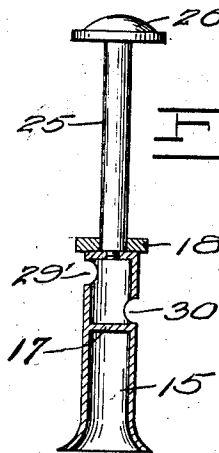


FIG. 4.



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FAUCET.

1,044,143.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HARVEY RAYMOND CORBETT, a subject of the King of England, residing at Vancouver, in the Province of British Columbia and Dominion of Canada, have invented certain new and useful Improvements in Faucets, of which the following is a specification.

This invention has relation to certain new and useful improvements in faucets.

The object of my invention is to provide a simply constructed and positively operating faucet, arranged to be held in a normally closed position, by means of the pressure of the water.

With the above and other objects in view, the present invention consists in the combination and arrangements of parts as will be hereinafter more fully described, and particularly pointed out in the appended claims.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a vertical sectional view of my faucet, showing my valve closed, Fig. 2 is a similar section showing the valve open, Fig. 3 is a section on the line 3—3 of Fig. 1, Fig. 4 is a vertical sectional view of the valve removed.

Referring particularly to the drawings, 5 represents the base portion of my faucet, which flares outwardly at the bottom, and is provided therebelow with a threaded nipple 6 by means of which the faucet is adapted to be secured to a water conduit. The base portion is exteriorly threaded as at 8 to receive thereon the valve casing proper 9, the upper portion of which is threaded at 10, to receive thereon the bonnet 11.

In the upper part of the base portion 5 is a transverse wall 12 provided with a centrally arranged downwardly flared opening 13, the purpose of which will be referred to later. Extending transversely in the center of the casing 9 is a centrally apertured wall 14, through which works vertically the valve 15. The valve 15 has the greater portion of its length cylindrically shaped and works snugly in the opening in the wall 14, while its lower end flares outwardly so as to fit snugly within the opening 13 before mentioned. The valve 15 is hollow, and is provided at a suitable distance from its lower end and within the valve, with a horizontally arranged diaphragm or web 17, the lower end of the valve being closed, so that

water pressure from below will be exerted against the bottom and normally tend to force the valve upward. On the upper end of the valve is a washer 18 which is adapted to bear against the lower face of the upper wall 19 of the casing 9, said wall being provided with a central opening 20, through which the water is adapted to pass as will be later described. Extending downwardly in the bonnet and formed integrally therewith is an enlargement 21 formed with a recess 22 to receive the packing 23. In the lower end of the enlargement is arranged an opening 24 which snugly and slidably receives the valve stem 25, said stem extending through the top of the bonnet and being provided with a button 26. In the lower portion of the base member 5 is a pressure chamber 27 which is normally filled with water under pressure from the mains. In one side of the bonnet is a threaded opening 28 adapted to receive the spout 29.

In the operation of the device, the parts being in normal position, as shown in Fig. 1, the stem 25 is depressed by means of the button 26, which forces downwardly the valve 15, unseating the washer 18, and the bell shaped end of the valve. The button 26 is so placed above the bonnet, that its distance therefrom is equal to about two-thirds or three-fourths the distance between the wall 19 and the web 14, so that when the said stem is depressed the opening 30 will pass below the web 14, and the opening 29' remain thereabove. In such position water will flow up around the bell-shaped end of the valve into the stem through the opening 30, out through the opening 29' into the space above the web 14 and through the opening in the wall 19, from whence it flows through the spout 29. Upon release of pressure on the stem, the water will press upwardly against the bottom of the valve, and consequently raise the valve, to seat the same at its upper and lower ends, and bring the openings 29' and 30 above the web 14. It will thus be seen that the water cannot flow from the faucet.

What is claimed is:

1. A faucet comprising a casing, an intermediately arranged and horizontally disposed perforated web, a centrally apertured wall above said web, a hollow valve disposed through the aperture in the web, a valve seat in the lower portion of the casing, a valve seat in said wall, said valve being pro-

vided with openings in its upper portion at different levels and closed above said openings, means on the valve below said openings to receive water pressure thereagainst to normally seat the valve, and means for unseating the valve.

2. A faucet comprising a casing, a transverse wall in the casing, a hollow valve in the casing closed at its forward end, valve seats at both ends of the casing, means on the valve for engaging said seats, a transversely arranged wall intermediate the ends of the valve, the inner end of the valve being open, the portion of the valve above said

transversely arranged wall having an opening in each side thereof at different levels, said openings being of such vertical distance apart that when said valve is depressed one of said openings will remain above said transverse wall in the casing, and the other opening pass below the wall, whereby water will flow upward through the valve.

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

HARVEY RAYMOND CORBETT.

Witnesses:

G. C. WOODWARD,
ROY J. HOLMES.

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