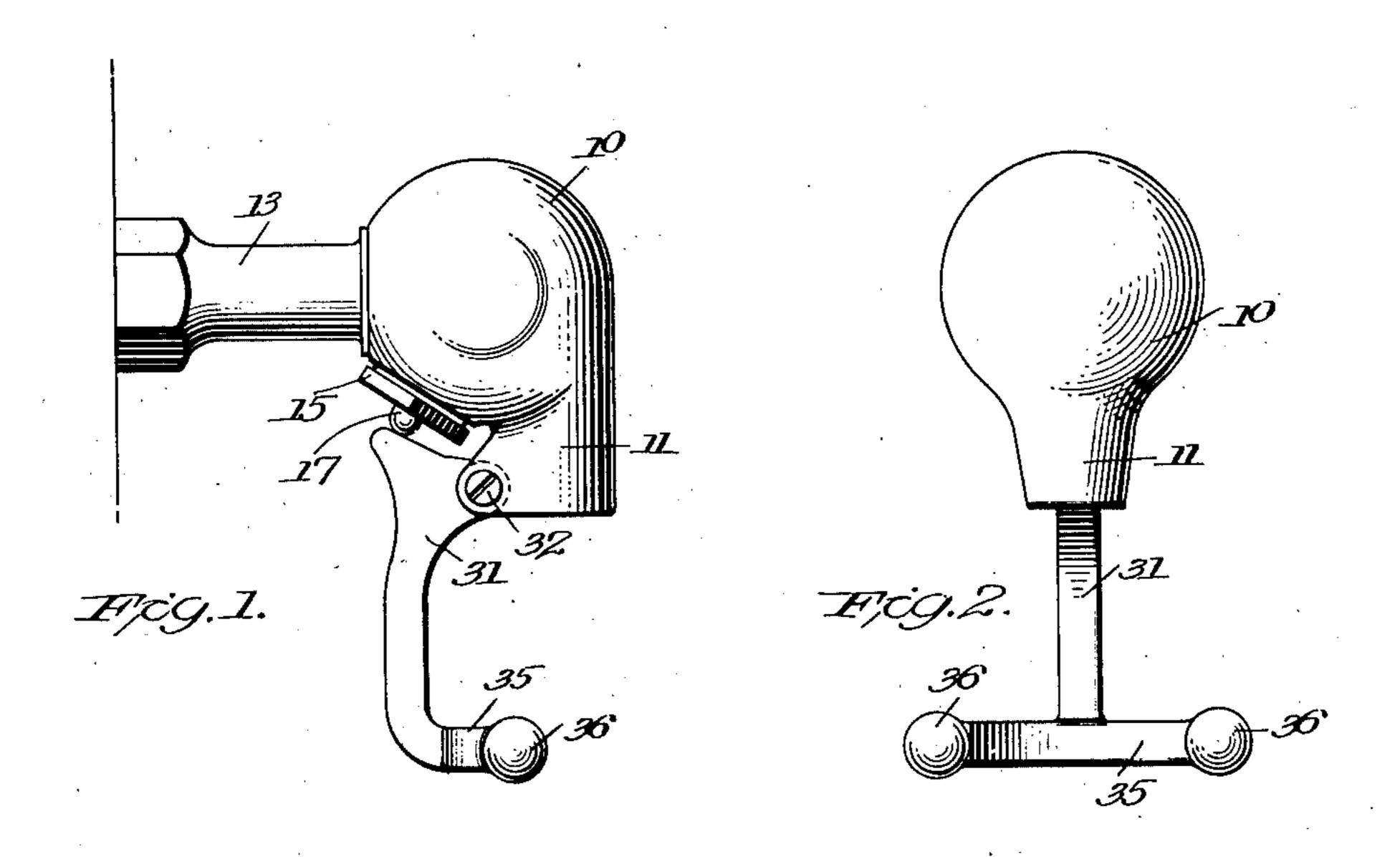
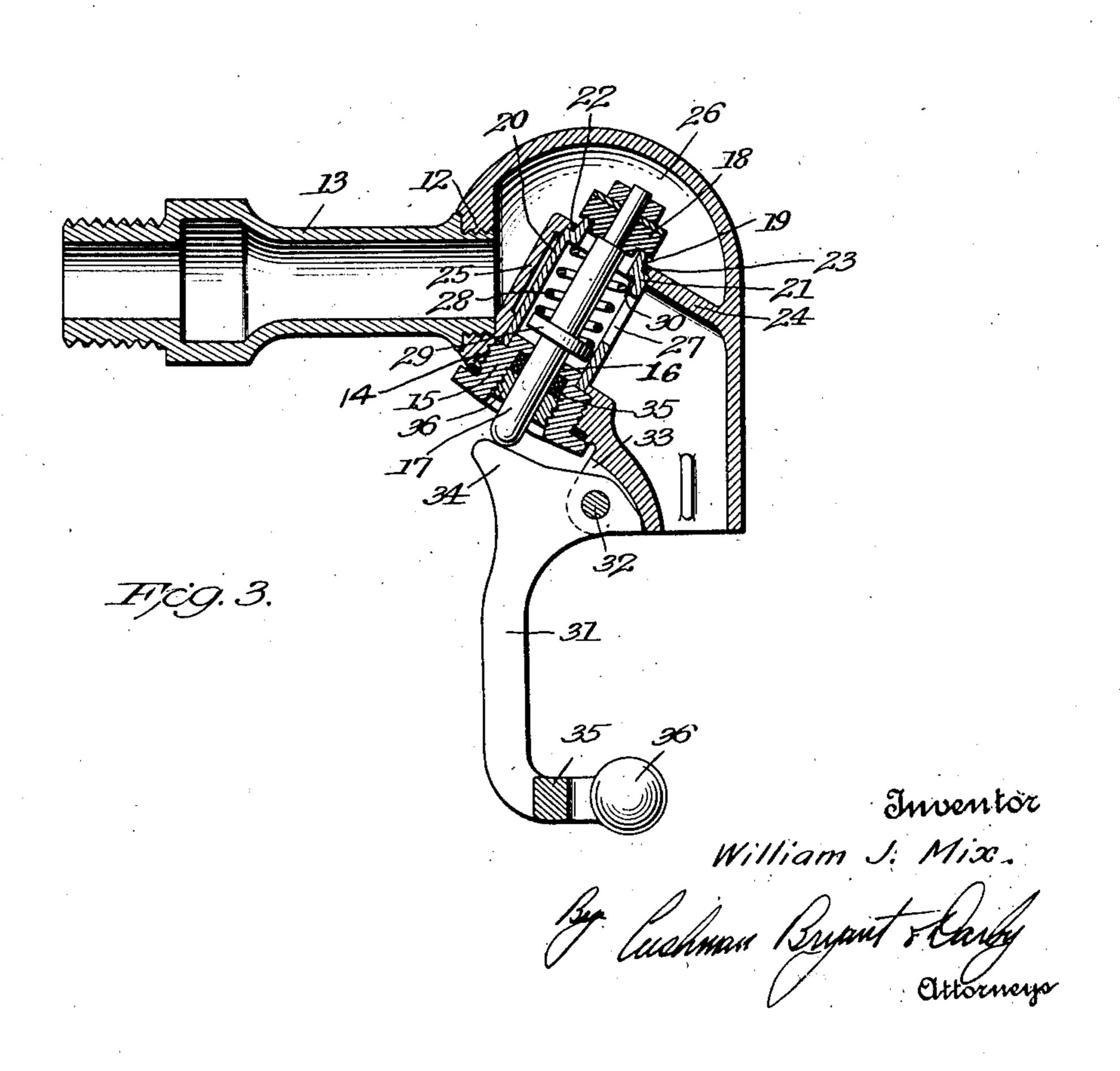
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## RECEPTACLE ACTUATED FAUCET

Filed Oct. 17, 1925





## UNITED STATES PATENT OFFICE.

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## RECEPTACLE-ACTUATED FAUCET.

Application filed October 17, 1925. Serial No. 63,094.

and more particularly to faucets of the self shank 13, and an opening 14 positioned preclosing type provided with valve operating ferably beneath the body between the nozzle means adapted to be actuated by a vessel when and inlet opening 12.

presented to the faucet.

faucet having a body portion of simple con- 16, through which passes a valve stem 17 carstruction and design, which is of pleasing appearance, and may be manufactured at a min- of the faucet. The valve 18 co-operates with tion being to reduce the labor and expense involved in the production of faucets of this type.

Another object of the invention is to sim-15 plify the arrangement and construction of the working parts, particularly the valve and valve seat, and to position the same within the faucet, so that they may be inserted and removed through the same opening in which 20 the valve stem works during normal opera-

tion of the faucet.

Other objects of the invention will become clear as the description proceeds in connection with the preferred embodiment illus-25 trated in the accompanying drawings, where-/ in:

Figure 1 is a side elevational view, Figure 2 is a front elevational view, and Figure 3 is a longitudinal section.

In the drawings, 10 indicates the body portion of regular or symmetrical contour, having extending therefrom a relatively short 35 Figures 1 and 2, it will be noted that the body carries a fork 35, provided with ball ends 36, 90 is substantially spherical, the only projection therefrom being the spout. This formation 40 or non-spherical contour, which, after being cast, must be presented manually to the grinding wheel or other machining tool. The spout 11 serves as means for chucking the body in the work holder of an ordinary lathe, position indicated in Figures 1 and 2. and then, due to the symmetrical shape of the An important feature of the invention is 100 chined is the nozzle or spout; and hence this operation eliminates a great deal of the labor 50 and expense involved in the usual operation

The top of the body, as will be noted, is imperforate, the body being provided with merely two openings, in addition to the discharge spout, namely, the inlet opening 12 at

of polishing and buffing faucet castings.

The present invention relates to faucets, its rear adapted to receive the end of the

The opening 14 has positioned therein a 60 An object of the invention is to provide a threaded plug 15 having a central aperture rying a valve 18 on its end within the body 10 imum cost, the primary object of the inven- a seat 19 formed upon the end of a tubular 65 element 20, which is shouldered at 21 to fit in a seat 22, around an opening 23 in a wall or diaphragm 24, which extends partially across the interior of the faucet body, and has a depending portion 25 positioned over the inlet 70 opening 12 to serve as a baffle directing the inflowing liquid upwardly to a reception chamber 26 above the wall 24. It will be observed that the tubular element effectively closes the opening 23 in the wall, so that when the valve 75 is open, the fluid must pass downwardly into the tubular element, from which it passes outwardly through an opening 27 in the side wall of the latter to the nozzle. A spring 28, which abuts a collar 29 on the stem and an in-80 ternal shoulder 30 on the valve, serves normally to maintain the valve closed. The valve is opened by means of a lever 31 pivoted on a pin 32 supported by means of spaced lugs 33 extending rearwardly from 85 the nozzle beneath the body portion. It will be noted that the lever has a valve engaging nozzle or spout 11, which is, preferably, cast projection 34 positioned beneath the valve integral with the body portion. Referring to stem, and, at its lower end beneath the nozzle, to be engaged by a vessel when the stem is presented to the faucet. It will be underof the body enables it to be produced at a ma-stood that in order to position a vessel beterially less expense than faucets of irregular neath the nozzle, the lever 31 must be moved rearwardly, thereby raising the valve and 95 tensioning the spring 28; when the vessel is removed, the valve spring automatically closes the valve and returns the lever to the

body, its entire surface may be automatically the arrangement of the valve and its seat. It machined. The only part which is not ma- will be observed that the opening 23 in the wall 24 is of sufficient size to enable the valve to be drawn therethrough when the seat carrying tube 20 is removed. The tube 20 ex- 105 tends downwardly and is supported by means of the plug 15, which also serves to close the opening 14 in the faucet body. As will be understood, when the plug 15 is removed, the tubular element 20 may then be withdrawn 110

opening 16 in the plug 15, the latter is cen-5 35, which may be compressed by the nut 36 having a threaded fit within the plug 15.

Obviously, numerous changes may be made in the construction illustrated and described in detail, without departing from the inven-10 tion, the essence of which is set forth in the

following claims.

I claim:—

15 ber having unbroken top, front and side sur- of fluid through said nozzle, a valve stem 80 20 in the wall of said body portion, and means opening, said means comprising a valve stem 85 25 opening serving to retain the seat and valve adapted to be engaged and actuated by a ves-90 in the body portion.

40 tain the seat and valve in the body portion.

3. A faucet comprising a substantially

chamber having unbroken top, front and side against movement. surfaces, a nozzle leading downwardly there- 8. In a faucet, a body portion, a nozzle, 125 wall of said body portion, and means per- the wall of the body portion, a tubular ele- 130

with the valve and its stem, including the mitting withdrawal of said valve and stem spring 28. To prevent leakage through the through said opening, said means comprising a valve seat removably mounted in said trally dished to provide a box for a stuffing casing, and a plug closing said opening and serving also to retain the seat and valve in 70 the body portion, said plug and valve stem

being disposed behind said nozzle.

5. A faucet comprising a substantially spherical body portion forming a valve chamber having unbroken top, front and side sur- 75 faces, a nozzle leading downwardly therefrom and having its walls merging with the walls 1. A faucet comprising a substantially of the body portion, said body portion havspherical body portion forming a valve cham- ing a valve therein for controlling the egress faces, a nozzle leading therefrom, said body projecting through an opening in the wall portion having a valve therein for control- of said body portion on its under surface ling the egress of fluid through said nozzle, behind said nozzle, and means permitting a valve stem projecting through an opening withdrawal of said valve stem through said permitting withdrawal of said valve and removably mounted in said casing, and a stem through said opening, said means com-plug closing said opening and serving also prising a valve seat removably mounted in to retain the seat and valve in the body porsaid casing, and removable means in said tion; and means for operating said valve sel as it is positioned adjacent said spout.

2. A faucet comprising a substantially 6. In a faucet, a body portion, a nozzle, spherical body portion forming a valve valve operating means adapted to be actuchamber having unbroken top, front and side ated by a vessel, as it is positioned beneath 30 surfaces, a nozzle leading downwardly there- the nozzle, a valve in said body portion hav- 95 from, said body portion having a valve there- ing a stem projecting through an opening in in for controlling the egress of fluid through the wall of the body portion, a tubular elesaid nozzle, a valve stem projecting through ment having an end forming a valve seat in an opening in the wall of said body portion, said casing and removable therefrom through 35 and means permitting withdrawal of said said opening, and a transversely extending 100 valve and stem through said opening, said wall in said body portion having an apermeans comprising a valve seat removably ture therein to receive the end of said tumounted in said casing, and removable means bular element which forms said valve seat, closing said opening and serving also to re- said element closing said opening around the seat.

7. In a faucet, a body portion, a nozzle, spherical body portion forming a valve valve operating means adapted to be actuated chamber having unbroken top, front and side by a vessel as it is positioned beneath the surfaces, a nozzle leading downwardly there- nozzle, a valve in said body portion having 45 from, said body portion having a valve there- a stem projecting through an opening in the 110 in for controlling the egress of fluid through wall of the body portion, a tubular element said nozzle, a valve stem projecting through having an end forming a valve seat in said an opening in the wall of said body portion casing and removable therefrom through on its under surface behind said nozzle, and said opening, a transversely extending wall 50 means permitting withdrawal of said valve in said body portion having an aperture 115 and stem through said opening, said means therein to receive the end of said tubular comprising a valve seat removably mounted element which forms said valve seat. said in said casing, and a plug closing said open- element closing said opening around the ing and serving also to retain the seat and seat and having an opening in its wall to 55 valve in the body portion and to hold the permit liquid to flow to the nozzle when the 120 seat in proper position therein. valve is open, and means in said opening 4. A faucet comprising a substantially serving to engage the opposite end of said spherical body portion forming a valve tubular element and retain the element

from, said body portion having a valve there- valve operating means adapted to be actuin for controlling the egress of fluid through ated by a vessel as it is positioned beneath said nozzle, a reciprocably mounted valve the nozzle, a valve in said body portion havstem projecting through an opening in the ing a stem projecting through an opening in

ment having an end forming a valve seat in ber having unbroken top, front and side sursaid casing and removable therefrom faces, an integral nozzle leading directly through said opening, a transversely extend- downwardly from said chamber and being ing wall in said body portion having an disposed substantially therebeneath, said 5 aperture therein to receive the end of said body portion having a valve therein for con- 65 tubular element which forms said valve seat, trolling the egress of fluid through said said element closing said opening around the nozzle, a valve stem projecting through an seat and having an opening in its wall to per- opening in the bottom wall of said body pormit liquid to flow to the nozzle when the tion, and means permitting the withdrawal 10 valve is open, and a plug in said opening of said valve and stem through said opening, 70 serving to hold said tubular element in position...

9. In a faucet, a body portion, a nozzle, valve operating means adapted to be actuated 15 by a vessel as it is positioned beneath the nozzle, a valve in said body portion having a stem projecting through an opening in the wall of the body portion, a tubular element having an end forming a valve seat in said 20 casing and removable therefrom through said. opening, a transversely extending wall in said body portion having an aperture therein to receive the end of said tubular element which forms said valve seat, said element closing 25 said opening around the seat and having an opening in its wall to permit liquid to flow to the nozzle when the valve is open, and a plug in said opening serving to hold said tubular element in position, said valve stem passing through said element and a central and a receptacle actuatable member pivotally 90 opening in said plug to the exterior of the mounted on the rear wall of said nozzle and body portion.

10. A faucet comprising a substantially spherical body portion forming a valve cham-35 ber having unbroken top, front and side surfaces, an integral nozzle leading directly downwardly from said chamber and being disposed substantially therebeneath, said body portion having a valve therein for con-40 trolling the egress of fluid through said nozzle, a valve stem projecting through an opening in the bottom wall of said body portion, and means permitting the withdrawal of said valve and stem through said opening.

11. A faucet comprising a substantially spherical body portion forming a valve chamber having unbroken top, front and side surfaces, an integral nozzle leading directly downwardly from said chamber and being disposed substantially therebeneath, a nozzle being integrally formed with the body portion and having its walls merging therewith, said body portion having a valve therein for rearwardly extending lug and a receptacle controlling the egress of fluid through said actuatable valve operating member mounted nozzle, a valve stem projecting through an on said lug at the rear of said nozzle, the 115 opening in the bottom wall of said body portion, and means permitting the withdrawal of said valve and stem through said opening.

12. A faucet comprising a substantially spherical body portion forming a valve cham-

and a receptacle actuatable member pivotally mounted on the rear wall of said nozzle and adapted to operate said valve stem, said nozzle having substantially unbroken front and side walls.

13. A faucet comprising a substantially spherical body portion forming a valve chamber having unbroken top, front and side surfaces, an integral nozzle leading directly downwardly from said chamber and being 80 disposed substantially therebeneath, a nozzle being integrally formed with the body portion and having its walls merging therewith, said body portion having a valve therein for controlling the egress of fluid through said 85 nozzle, a valve stem projecting through an opening in the bottom wall of said body portion, and means permitting the withdrawal of said valve and stem through said opening, adapted to operate said valve stem, said nozzle having substantially unbroken front and side walls.

14. A faucet comprising a substantially 95 spherical body portion forming a valve chamber having unbroken top, front and side surfaces, an integral nozzle leading directly downwardly from said chamber and being disposed substantially therebeneath, a nozzle 100 being integrally formed with the body portion and having its walls merging therewith, said body portion having a valve therein for controlling the egress of fluid through said nozzle, a valve stem projecting through an 105 opening in the bottom wall of said body portion, and means permitting the withdrawal of said valve and stem through said opening. and a receptacle actuatable member pivotally mounted on the rear wall of said nozzle hav- 110 ing substantially unbroken front and side walls, said nozzle having on its rear wall a nozzle having unbroken front and side walls merging with the walls of said chamber.

In testimony whereof I have hereunto set my hand.

WILLIAM J. MIX.