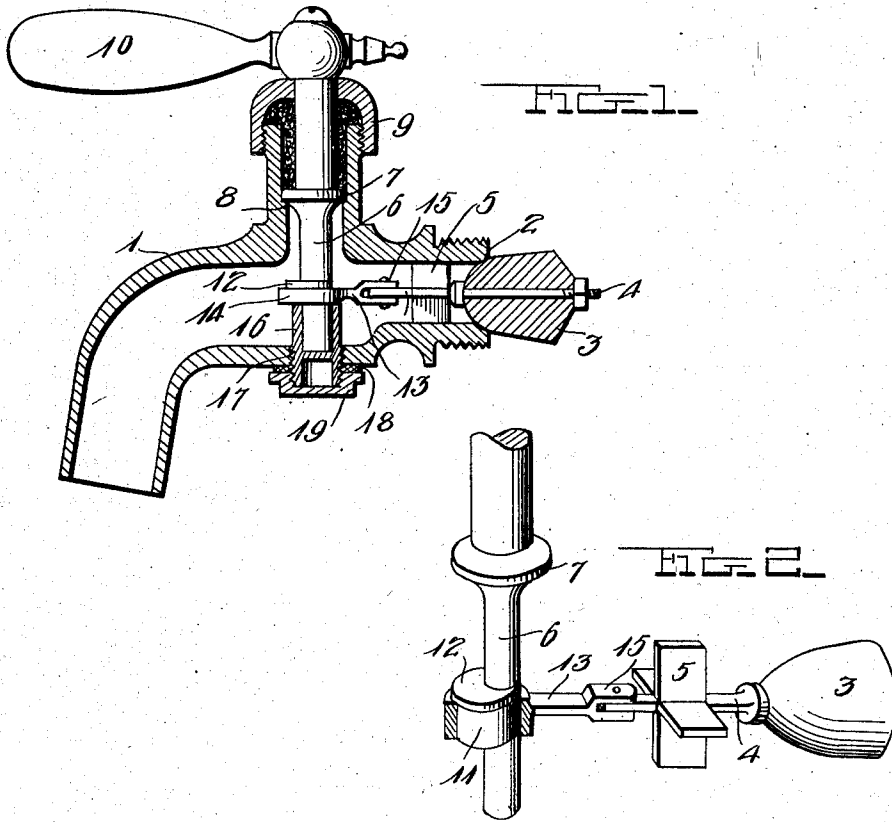


J. W. TERRELL.
FAUCET.
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UNITED STATES PATENT OFFICE.

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FAUCET.

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To all whom it may concern:

Be it known that I, JAMES WILLIAM TERRELL, a citizen of the United States, residing at Chico, in the county of Butte and State of California, have invented certain new and useful Improvements in Faucets; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in faucets.

One object of the invention is to provide a faucet having an improved construction and arrangement of valve operating mechanism by means of which all unnecessary play of the parts is dispensed with and the hammering and noise frequently occurring in faucets of this character is obviated.

Another object is to provide a faucet having an improved construction and arrangement of valve operating shaft or spindle and means whereby the same is securely held in operative position in the faucet.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and claimed.

In the accompanying drawings: Figure 1 is a vertical longitudinal sectional view through a faucet constructed and arranged in accordance with the invention; Fig. 2 is a detail perspective view partly in section of the valve and its operating device removed from the casing of the faucet.

Referring more particularly to the drawings, 1 denotes the body portion or casing of the faucet in the inner end of which is arranged a valve seat 2 with which is adapted to be engaged the valve 3 which may be of any suitable form and construction and is connected to a stem 4 engaged therewith as shown. On the inner portion of the stem and slidably engaged with the inner walls of the shank of the faucet are a series of radially projecting guide plates 5 whereby the stem is centered in the shank of the faucet.

Revolubly mounted in the body portion of the faucet is a valve operating shaft 6 on the upper portion of which is formed an annular centering flange 7 adapted to be engaged with a shoulder 8 formed on the

inner surface of the stuffing box 9 on the upper side of the faucet through which the upper portion of the shaft 6 projects and by means of which a fluid tight engagement is formed between the shaft and the casing of the faucet. On the upper end of the shaft 6 is arranged any suitable form of handle 10.

On the lower portion of the shaft 6 in the body of the faucet is formed a valve operating cam 11 having on its upper end a radial projecting stop flange 12. With the cam 11 is engaged a link 13 on which is formed a ring 14 and on the outer end of which is arranged a pair of apertured stem engaging lugs 15 to which is pivotally connected the inner end of the stem 4 of the valve whereby when the shaft 6 is turned in either direction the valve will be opened or closed. By thus constructing and arranging the shaft it will be seen that the latter and the handle 10 may be turned entirely around in either direction thus greatly facilitating the opening and closing of the valve.

In order to form a firm support for the valve, I preferably provide the casing with a bearing adapted to receive and revolubly support the lower or inner end of the shaft 6.

In Fig. 1 of the drawings is shown a removable bearing 16, said bearing comprising a cylindrical socket, the lower portion of which is exteriorly threaded whereby the socket is adapted to be screwed into a threaded aperture 17 formed in the lower side of the body of the faucet as shown. The inner end of the socket projects a considerable distance into the faucet to form a firm bearing and support for the lower end of the shaft 6 which is engaged with the socket as shown. The inner end of the bearing socket 16 also forms a support for the link 13 which connects the valve stem with the eccentric or cam on the shaft. When thus arranged the ring 14 is disposed between the upper end of the socket and the flange 12 and is thus firmly held in operative position. The lower end of the socket 16 projects a short distance below the lower side of the faucet and has arranged thereon a packing ring or washer 18 and a cap nut 19 whereby a fluid tight joint is formed between the threaded end of the socket and the faucet.

By providing a bearing for the lower end of the shaft or spindle 6 as herein

shown and described, said bearing together with the annular centering flange 7 on the upper end of the shaft or spindle will firmly support the shaft in operative position and will prevent all unnecessary play or movement thus obviating the hammering and other objections frequently occurring in the usual construction of this form of faucet. By providing the link 13 for connecting the stem of the valve with the eccentric or cam on the stem or shaft 6 and providing the stem of the valve with guide members as herein shown and described the valve will be brought squarely and evenly into engagement with its seat thus positively cutting off the supply of water and reducing the possibility of leakage at this point.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as claimed.

Having thus described my invention, what I claim is:

1. A faucet of the character described comprising a body portion having in its inner end a valve seat, a valve adapted to be engaged with said seat, a valve stem con-

nected with said valve, a valve operating shaft revolubly mounted in the body of the faucet, means to operatively connect said shaft with said valve stem, means to center and support the upper end of the shaft and a removable bearing socket arranged in the lower portion of the body of the faucet and adapted to receive and revolubly support the lower end of the shaft.

2. A faucet of the character described comprising a body portion, a valve adapted to open and close said faucet, a valve operating shaft revolubly mounted in the body of the faucet, means to center and support the upper end of said shaft, a cylindrical bearing socket having a threaded outer surface adapted to be screwed into the lower side of the body of the faucet in position to receive and revolubly support the lower end of said shaft, said socket having its lower end extending below the outer side of the faucet, a washer arranged on said projecting end of the socket, and a cap nut adapted to be screwed onto said end of the socket whereby a fluid tight joint is formed between the socket and the body of the faucet.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JAMES WILLIAM TERRELL.

Witnesses:

G. W. HESCOCK,
B. RYAN.

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