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2,295,445

FAUCET

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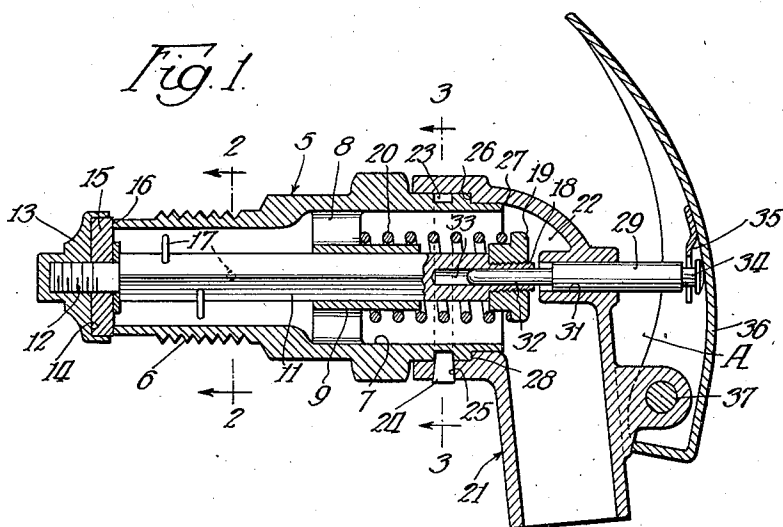


Fig. 2

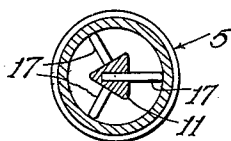


Fig. 3

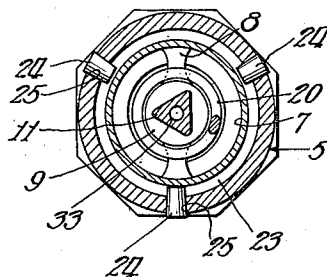
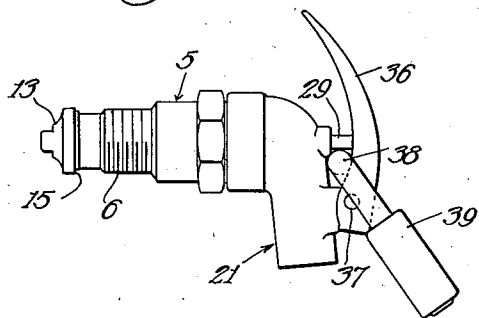


Fig. 4



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FAUCET

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3 Claims. (Cl. 251-134)

This invention relates to faucets, and particularly to a faucet having a screw-threaded body portion for attaching to a receptacle, or the like, and wherein the spout may be positioned as desired regardless of the position of the body portion of the faucet with respect to the receptacle.

Heretofore, in attaching a screw-threaded body portion of a faucet having an integral spout, it has frequently happened that when the body portion is screwed snugly into the receptacle to provide a suitable connection, the spout of the faucet is in an undesirable position for the discharge of fluid therefrom. In such a case, it has been found necessary, either to back-off the body member, which may result in a leaky connection, or it has been necessary to force the connection in an effort to properly position the spout, thereby putting undue strain on the connection with the possible result of breakage.

One object, therefore, of the present invention is to provide a novel construction and arrangement, wherein the spout of a faucet may be moved relatively to the body portion thereof in a manner to suitably position the spout for the discharge of fluid therefrom.

Another object of the invention is to provide a suitable connection between the body member and spout to prevent leakage of fluid thereat.

Another object of the invention is to provide a novel construction and arrangement wherein suitable locking means may be applied to the device to prevent unauthorized operation thereof.

Another object of the invention is to provide a novel arrangement whereby efficient operating condition of the valve actuating mechanism is retained regardless of the relative positioning of the spout and body member.

Another object of the invention is to provide a novel construction wherein the valve gasket may be readily and quickly replaced if, and when found necessary.

A further object of the invention is to provide a faucet wherein the tendency to leave the faucet open and unattended is reduced to a minimum.

A still further object of the invention is to improve devices of the character described in sundry details hereinafter referred to and particularly pointed out in the appended claims.

One embodiment of the present invention is shown for illustrative purposes in the accompanying drawing in which:

Fig. 1 is a longitudinal sectional elevational view of a faucet embodying features of the present invention;

Fig. 2 is a transverse elevational view taken substantially as indicated by the line 2-2 of Fig. 1;

Fig. 3 is a transverse sectional elevational view taken as indicated by the line 3-3 of Fig. 1; and

Fig. 4 is an elevational view on a reduced scale of the structure shown in Fig. 1, and illustrating the application of a locking device thereto.

The illustrative embodiment of the invention shown in the drawing comprises an elongated, tube-like body member indicated as a whole by the numeral 5 having one of its end portions screw-threaded as indicated at 6 for suitably mounting the faucet in an opening formed in a receptacle or the like.

The body member 5 is shown, in the present instance, as having an enlarged bore portion 7 provided with a strut or spider 8 mounted therein, preferably, by a driving fit and provided with an axial sleeve portion 9 having an opening therein, shown, in the present instance, as of triangular form adapted to receive a correspondingly formed shaft or stem 11 in a manner to slide axially in the sleeve 9 and to be supported by and secured against rotation therein.

Mounted on a reduced, screw-threaded end portion 12 of the stem 11 is a valve head 13 having a recess 14 formed thereon adapted to receive a valve face or disk 15 of suitable, slightly pliable material adapted to engage a valve seat 16 formed on the adjacent end of the body member 5 at the receiving end thereof.

For providing additional support for the valve stem 11, if desired, and for suitably guiding the valve stem 11 adjacent the receiving end of the body member 5, a plurality of pins 17 are provided and extend from the stem, preferably, at right angles to the respective faces thereof, and spaced longitudinally of the stem, as clearly illustrated in Figs. 1 and 2.

The opposite end portion of the stem 11 is provided with a reduced screw-threaded portion 18 adapted to receive a collar 19, and surrounding the stem 11 between the collar 19 and strut 8 is a resilient spring member 20 under tension, which acts normally to hold the valve face 15 securely against the seat 16.

Rotatably mounted on the outer or discharge end of the body member 5, and about an axis coincident with that of the body member and valve stem 11, is a discharge spout indicated, as a whole, by the numeral 21, and for securing the spout to the body member in a manner to rotate thereon, the body member 5 is provided with an

annular groove 23 adapted to receive securing means shown in the present instance as a plurality of tapered pins 24 mounted in openings 25 formed in a portion of the spout 21.

For providing a suitable connection between the body member 5 and spout 21, the body member is provided adjacent its discharge end with an external annular shoulder 26 spaced back from the delivery end of the body member so that the end portion thereof extends into the opening 22 of the spout, as indicated at 27, while the spout 21 is provided with an internal annular shoulder 28 adapted to be engaged by the external shoulder 26, and for urging the shoulders 26 and 28 toward each other, the pins 24 are so positioned with respect to the groove 23 that the pins when inserted will engage the wall of the annular groove 23 adjacent the shoulder 26 for urging the shoulder snugly against the shoulder 28.

By such an arrangement and by reason of the discharge end portion 27 of the body member 5 extending into the opening 22 formed in the spout 21, it will be apparent that a substantially fluid-tight joint is obtained between the spout and the body member to prevent the escape of fluid therefrom.

For actuating the valve to move the member 15 from the seat 16, a rod 29 is slidably mounted in an opening 31 formed in the spout 21 and provided with a guide portion 32 extending axially into an elongated recess 33 formed in the stem 11, the outer end portion of the rod 29 having a reduced neck portion 34 adapted to be straddled and engaged by a bracket 35 mounted on a lever 36 pivotally connected to the spout 21 by means of a pivot pin 37, by which the valve may be manually operated.

It will be apparent from the foregoing description that the present invention provides a novel construction and arrangement wherein the spout of the device may be rotated on the body member to suitably position the spout for discharge of fluid therefrom regardless of the position of the body member with respect to a tank or other receptacle, to which the device may be attached.

Furthermore, by reason of the axial alignment of the actuating rod 29 and valve stem 11, the valve may be operated efficiently notwithstanding any angular change in the position of the spout with respect to the body member.

It will be noted, also, that by reason of the relative positions of a portion of the spout 21, rod 29 and lever 36, an opening indicated at A is formed adjacent said portions of these elements of the device, the opening being adapted to receive locking means shown in Fig. 4 as a bow 38 of a padlock 39 by which the device may be secured against unauthorized operation, it being understood that the bow 38 positioned in the manner shown in Fig. 4 will prevent movement of the lever 36 sufficiently to open the valve.

It will be apparent from the foregoing descrip-

tion that the present invention provides a novel construction and arrangement wherein the spout of the faucet may be moved relatively to the body portion thereof in a manner to suitably position the spout for the proper discharge of fluid therefrom, and wherein a fluid tight connection may be provided between the spout and body member. Furthermore, that the present invention provides suitable means for locking the device against unauthorized operation, and wherein the tendency to leave the faucet open and unattended is reduced to a minimum.

Obviously, the present invention is not limited to the precise construction and arrangement shown and described, as the same may be variously modified without departing from the spirit and scope of the invention as set forth in the appended claims.

What I claim as new and desire to secure by Letters Patent is:

1. In a device of the class described and in combination, an elongated hollow tube-like body member adapted to extend through the wall of a receptacle, a valve adjacent the inner end of said member, a spout having a shoulder thereon rotatably mounted on the outer end of said member, said member having a shoulder engageable with the shoulder on said spout and having an end portion extending beyond said last mentioned shoulder, means for urging said shoulders towards each other, and actuating means mounted on said spout and operatively related to said valve.

2. In a device of the class described and in combination, an elongated tube-like member, a valve adjacent one end thereof, means for closing said valve, the opposite end portion of said member having an annular groove formed therein and an external shoulder thereon spaced back from the last mentioned end of said member, a spout rotatably mounted on said opposite end portion of said member and having an internal shoulder engageable with said external shoulder, means carried by said spout and engageable with said groove for securing the spout to said member and for urging said shoulders toward each other, and actuating means mounted on said spout for opening said valve in opposition to said closing means.

3. In a device of the class described and in combination, an elongated tube-like body member, one end portion of said member having an annular groove formed therein and an external shoulder thereon spaced back from the last mentioned end of said member, a spout rotatably mounted on said opposite end portion of said member and having an internal shoulder engageable with the external shoulder on said body member, a plurality of tapered pins carried by said spout and engageable with a wall of said groove for securing the spout to said member and for urging said shoulders toward each other.

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