

July 12, 1927.

1,635,875

W. F. ALBRECHT

FAUCET

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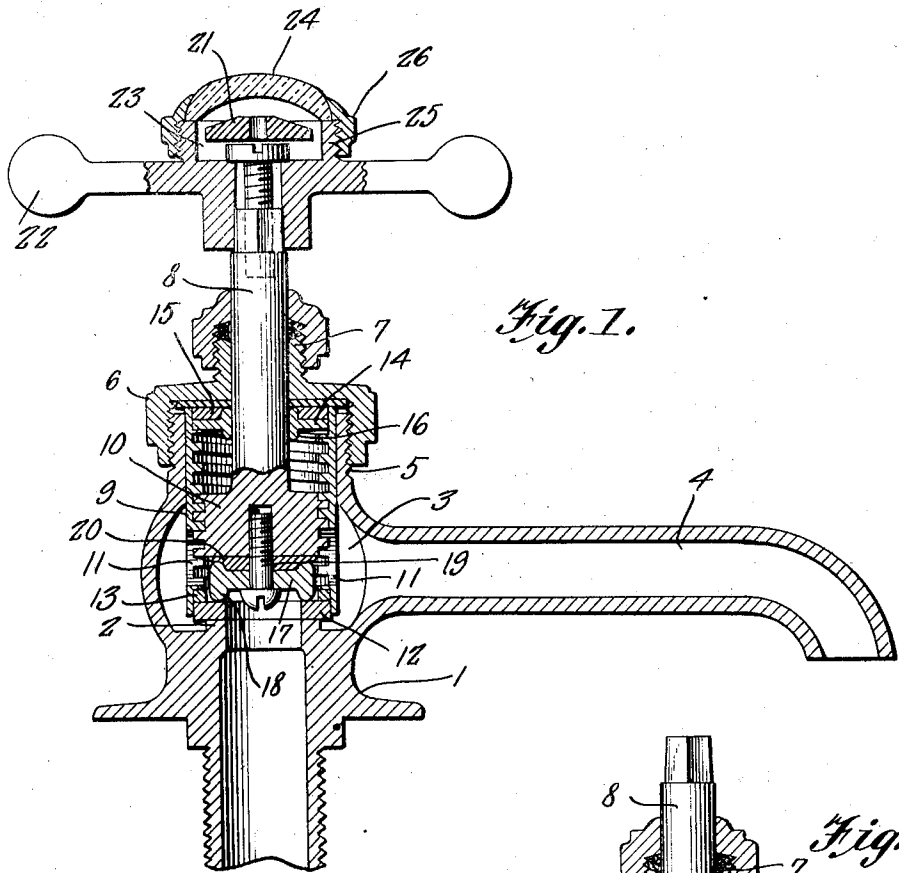


Fig. 1.

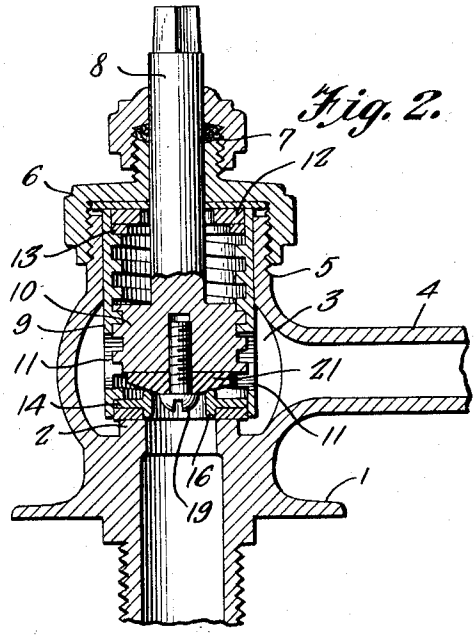


Fig. 2.

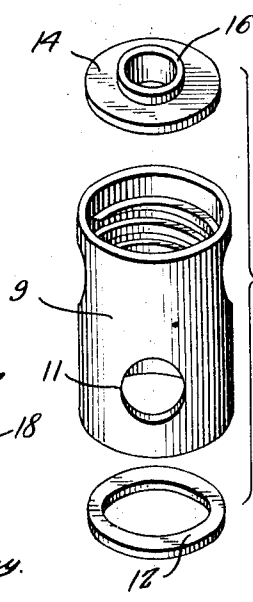


Fig. 3.

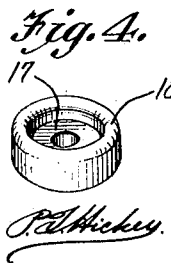


Fig. 4.

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FAUCET.

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This invention relates to a faucet, the general object of the invention being to so form the faucet that all of the working parts can be removed as a unit so that repairs can be easily and quickly made and also, to make the parts reversible so that when portion of a part wears, it may be reversed to bring an unworn portion into use.

A further object of the invention is to make the device capable of use in either a high pressure system or a low pressure system by reversing some of the parts.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a sectional view through the improved faucet.

Figure 2 is a view showing some of the parts reversed from that shown in Figure 1 and with a different type of washer on the valve head.

Figure 3 is a view of the barrel and its associated parts disassembled.

Figure 4 is a view of the disk valve member used in Figure 1.

In these views, 1 indicates the body of the faucet which is formed with the seat 2, the body being provided with an enlarged part above the seat which forms a chamber 3 which is in communication with the discharge spout 4 and the other part of the body is formed with a cylindrical extension 5 which is threaded to receive the closing cap 6 which carries the packing gland 7 for the valve stem 8. An internally threaded barrel 9 is held in the body between the seat and the cap, said barrel snugly fitting the cylindrical part 5 and forming the chamber 3 into an annular one, as shown. The valve head 10 is threaded to engage the threads of the barrel and as the barrel is held against rotary movement in the body, the turning movement of the head and stem will cause the head to move toward or away from the valve seat 2. A number of holes 11 are formed adjacent each end of the barrel, the

holes which are lowermost placing the interior of the barrel in communication with the chamber 3. A space is left at each end of the barrel by terminating the threads short of each end, one of these spaces receiving a ring-shaped washer 12 and its seating ring 13, while the other space receives a metal ring 14 and a washer 15, the ring 14 having a flange 16 on each face thereof, these flanges forming continuations of the bore of the ring. These parts fit snugly into the barrel so that when the barrel is removed from the body, the parts will remain in the barrel and will thus be removed with the same.

A disk 17, having an annular bead or flange 18 on each face thereof at the periphery thereof, is adapted to be fastened to the valve head 10 by the screw 19, a washer or gasket 20 being placed between the head and the inner face of the disk or, if desired, a washer such as shown at 21 in Figures 1 and 2, can be substituted for the disk and its gasket, as shown in Figure 2.

Figure 1 shows the faucet with its parts arranged for a low pressure system, while Figure 2 shows a faucet with its parts arranged for a high pressure system, though, of course, it will be understood that either arrangement could be used for either a low pressure or a high pressure system. Figure 1 shows the disk 17 attached to the valve head and engaging the ring-shaped washer 12 which is held on the seat 2 by the barrel. When the handle 22 is turned to rotate the stem, the head moves upwardly, carrying the disk 17 with it, so as to space the disk from the washer 12. This will permit water to pass from the supply pipe which is connected with the body, past the seat 2 into the barrel and through the openings 11 into the chamber 3 and out through the spout 4. When one face of the disk 17 wears, it may be removed and reversed so as to bring the unworn face into use and, if desired, a washer similar to 12 can be placed at the other end of the barrel instead of the members 14 and 15 so that when one washer wears, the barrel can be reversed to bring the second washer into use. The barrel can also be reversed when the threads adjacent one end thereof have become worn by continued use of the faucet. This will bring the unworn threads into use.

When the members 14 and 15 are used, as shown in Figure 2, the disk 17 is removed

and a washer similar to that shown at 21 is attached to the head so that the said washer, engaging one flange of the member 14, will prevent the water from flowing through the faucet. As before stated, this arrangement is desirable for use on high pressure systems. As shown in Figure 1, when this washer 21 is not in use, it may be placed in the chamber 23 which is formed by the index carrying member 24 and the tubular extension 25 of the handle which is engaged by the threaded ring 26 which holds the member 24 in place.

As will be seen, all of the working parts can be removed as a unit so that they can be easily repaired, cleaned or reversed. By reversing them, unworn parts are brought into use so that the life of the faucet is a long one.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. A faucet of the class described comprising a body, an internally threaded barrel removably fitting in the body and capable of being reversed in the body, a washer carried by each end of the barrel, either one of which is adapted to engage the valve seat in the body, a valve head threaded to engage the threads in the barrel and having a part for engaging the washer at the inner end of the barrel, said barrel having holes therein for permitting the escape of the water into the spout of the washer, a stem connected with the head, a handle on the stem and a cap encircling the stem and threaded

to a part of the body for removably holding the parts in position.

2. A faucet of the class described comprising a body having a valve seat therein, an internally threaded barrel removably arranged in the body and capable of being reversed, a washer in each end of the barrel, either one of which is adapted to engage a valve seat, a valve head threaded to engage the threads in the barrel, a stem connected with the head, a handle on the stem, a cap through which the stem passes and threaded to the body and a reversible washer engaging member removably connected with the head.

3. A faucet of the class described comprising a body having a valve seat therein, an internally screw threaded barrel removably fitting in a part of the body and capable of being reversed, a washer at each end of the barrel, a reversible valve seat removably seated in one end of the barrel and engaged by one of the washers, a valve head threaded to engage the threads in the barrel, a stem on the head, a handle on the stem, a cap through which the stem passes, threaded to the body, a disk adapted to be connected with the head when the barrel is in position to place the washer on the seat and a washer adapted to be substituted for the disk when the barrel is reversed to bring the valve seat and its washer on the valve seat of the body.

4. A faucet of the class described comprising a body, a valve member therein, a stem on the member, a handle connected with the stem and having a part forming a recess and a cap threaded to said part and enclosing the recess, said recess being adapted to hold an extra washer or seat.

In testimony whereof I affix my signature.

WM. F. ALBRECHT.