

E. A. STRONG, SR.  
WATER FAUCET.  
APPLICATION FILED MAR. 10, 1909.

965,343.

Patented July 26, 1910.

Fig. 1.

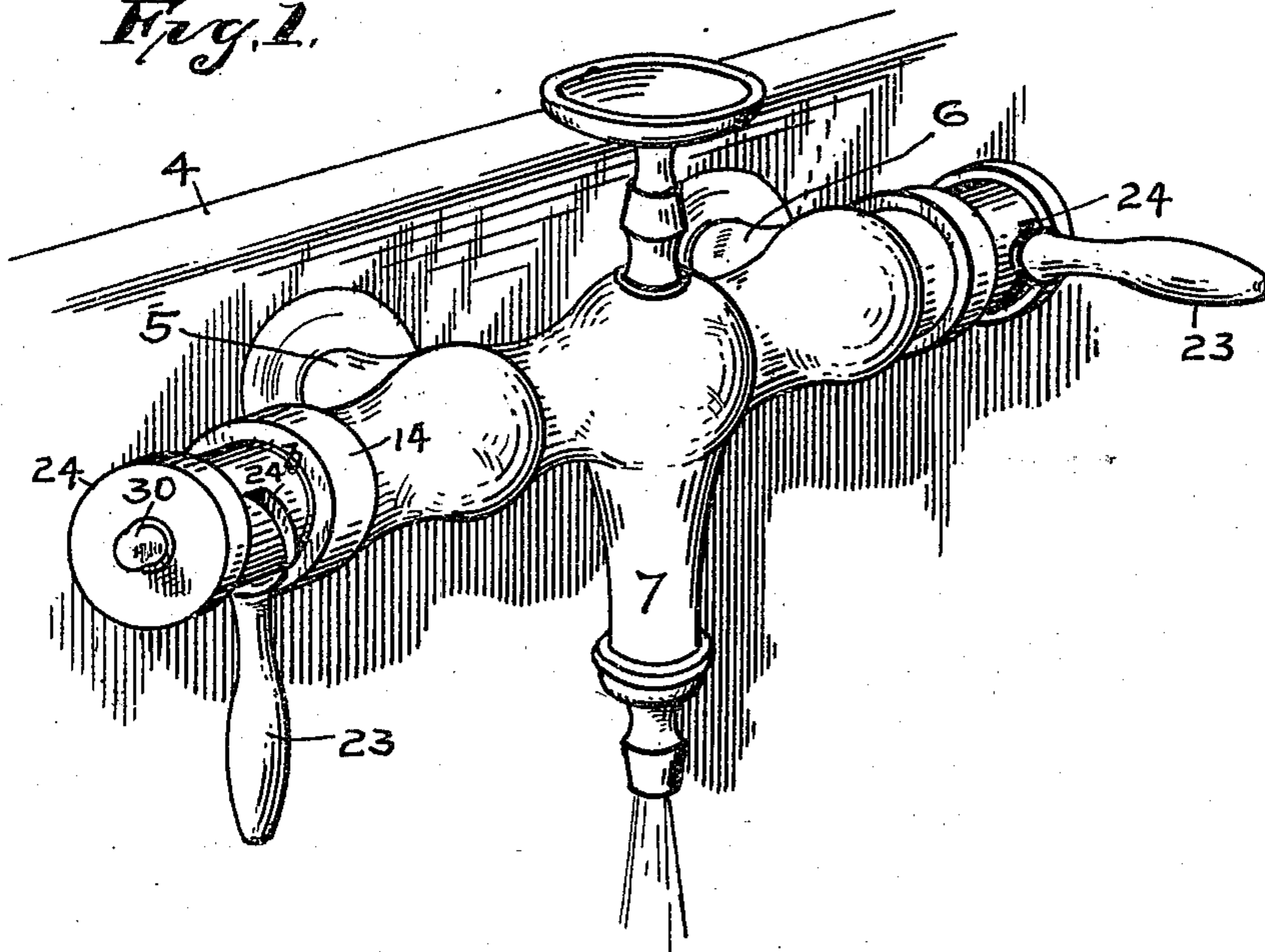


Fig. 2.

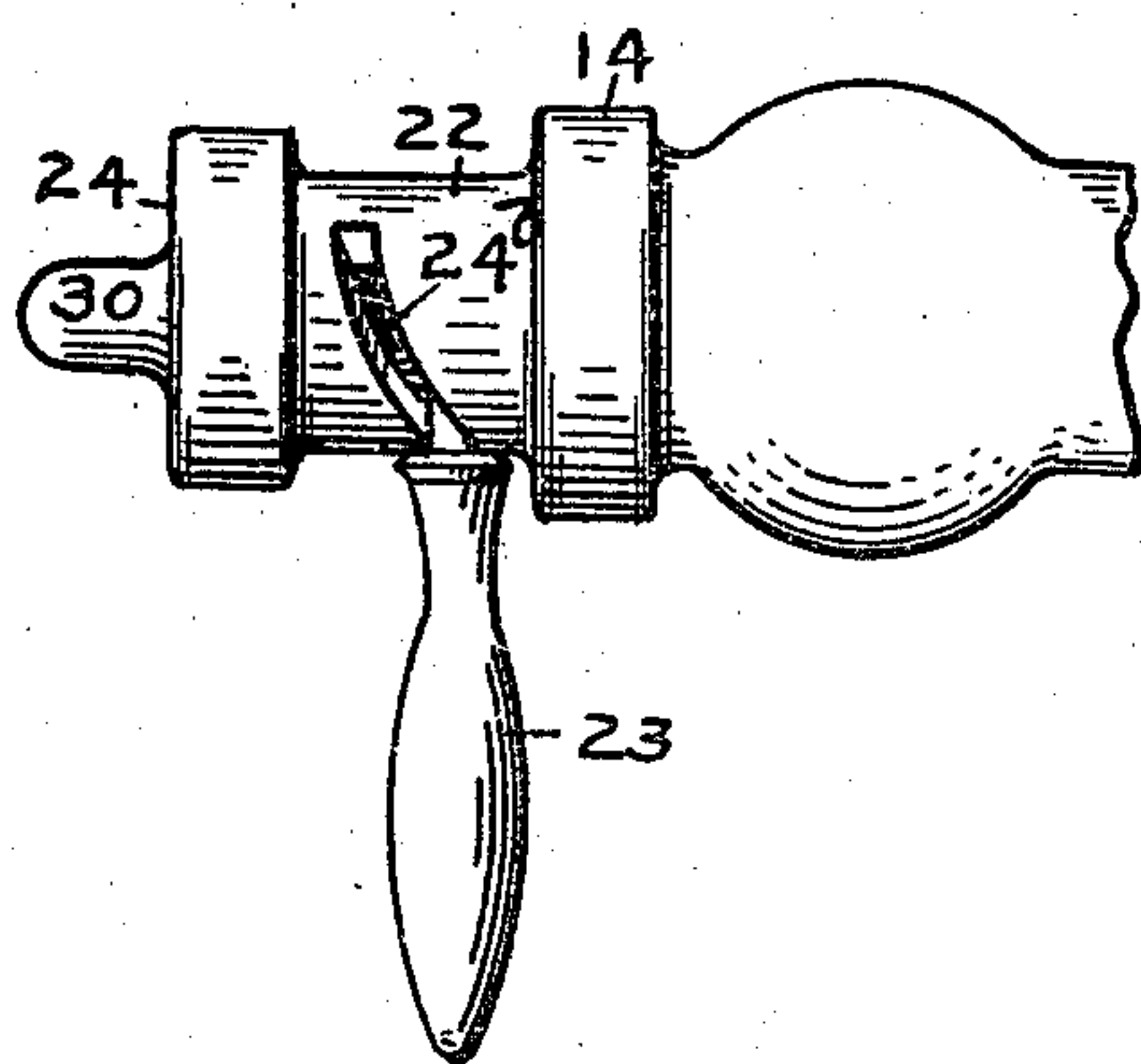
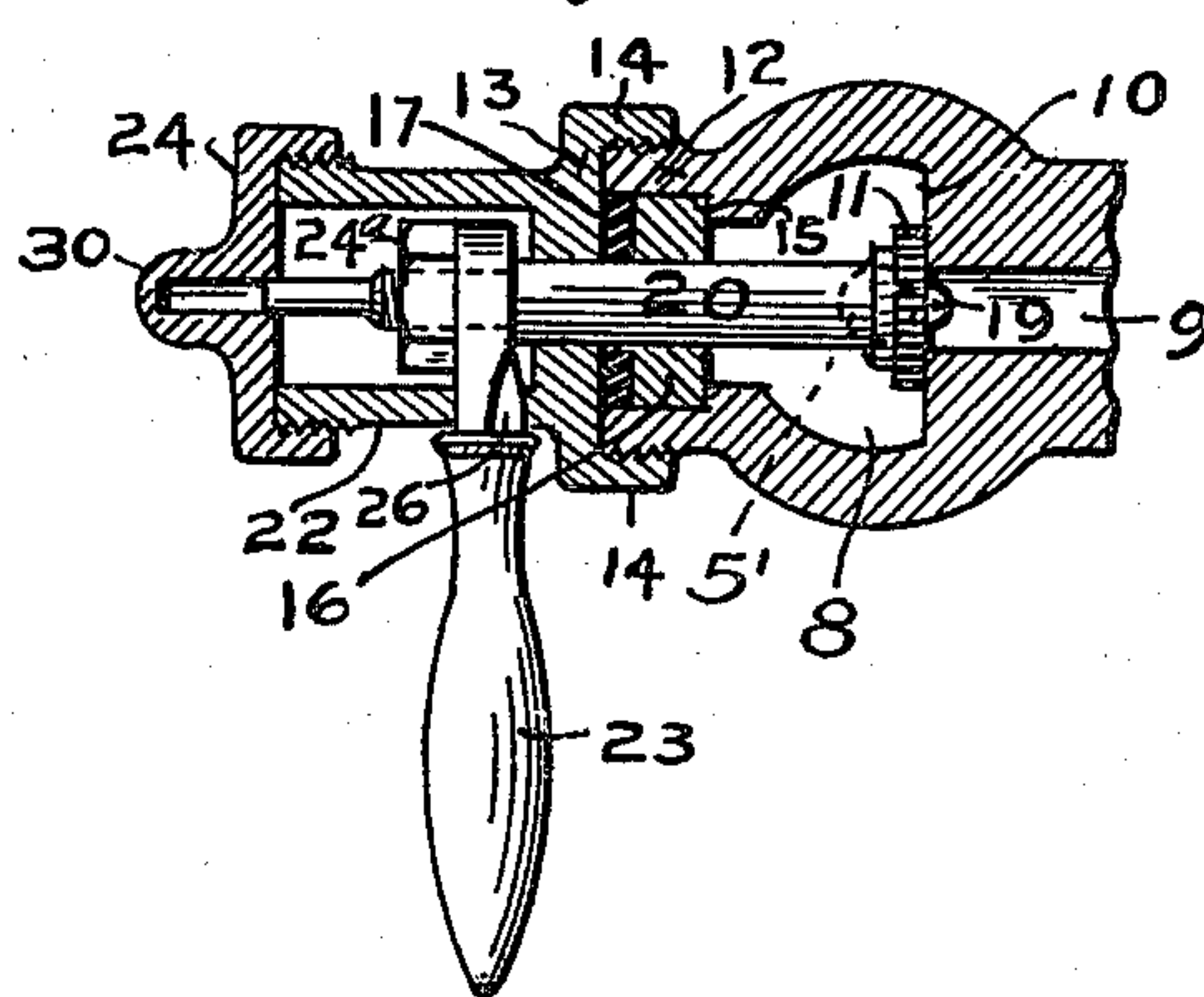


Fig. 3.



Witnesses;  
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# UNITED STATES PATENT OFFICE.

EDWARD A. STRONG, SR., OF INDIANAPOLIS, INDIANA.

WATER-FAUCET.

965,343.

Specification of Letters Patent.

Patented July 26, 1910.

Application filed March 10, 1909. Serial No. 482,593.

*To all whom it may concern:*

Be it known that I, EDWARD A. STRONG, Sr., a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Water-Faucets, of which the following is a specification.

This invention relates to improvements in valves or cocks for various purposes, such as for controlling the flow of gas, water, and other fluids or liquids through pipes, and the object of the invention is to provide such a device which will be inexpensive to manufacture, durable and readily accessible for the purpose of repairs and capable of being repaired by a person of ordinary intelligence without special training in such matters.

I accomplish the objects of the invention by the mechanism illustrated in the accompanying drawing, in which—

Figure 1 is a perspective view showing the end of a bath tub with a combination bath cock applied thereto and constructed in accordance with this invention, the near cock in the illustration being closed and the one on the far side being shown in open position. Fig. 2 is a detail in front elevation of the closed cock as shown in Fig. 1, and Fig. 3 is a vertical section of the detail shown in Fig. 2.

Like characters of reference indicate like parts throughout the several views of the drawing.

The bath tub 4 may be of any usual and suitable construction and is connected up with a hot water pipe 5 and a cold water pipe 6. These pipes make a turn at right angles toward each other and discharge in common through a pipe 7.

Fig. 3 illustrates the interior construction of the cock. The pipe 5 discharges at 5' into the chamber 8, and the discharge from the chamber is through the conduit 9. The wall 10 of the chamber is a plane surface especially adjacent the conduit 9, to form a good seat for the valve 11. The chamber wall opposite the wall 10 has an opening surrounded by an annular flange 12. This flange 12 is externally screw threaded to receive a cap 13 having internally threaded annular flange 14 which screws thereon. A shoulder 15 is formed within the flange 12 as a seat for a metal ring 16, and interposed

between the ring 16 and cap 13 is a packing 17 of leather or other suitable material.

The valve 11 is a disk of lead or other suitable material removably secured by a screw 19 to the expanded end of a valve stem 20, and the latter passes out of the chamber 8 through suitable openings in ring 16 cap 13 and interposed packing 17. The packing 17 makes a watertight fit around said stem.

Formed integral with the cap 13 surrounding the extended stem 20 is a cylindrical box 22 which is closed by a cap 24 removably secured thereto preferably by being screwed thereon. A portion of the extended stem 20 is squared to receive a handle 23 having a corresponding opening to fit said squared stem. An additional outer portion of the stem is screw threaded to receive a nut 24<sup>a</sup> to retain the position of the handle 23 on the stem.

The handle 23 passes out of the cylindrical box 22 through an oblique slot 24<sup>b</sup>, and that portion of the handle which passes through the slot is flattened obliquely as shown at 26 to correspond with the pitch of the slot 24<sup>b</sup>. When the valve stem 20 is rocked by raising or lowering the handle 23, the travel of the handle in the slot 24<sup>b</sup> imparts a corresponding longitudinal movement to the stem which seats or unseats the valve 11 according to the longitudinal movement of the stem.

To guide and support the outer end of the stem I extend a reduced portion into a hole in the cap 24 and provide a lug on the outside of the cap to receive the full depth of this bore.

It will be apparent that all of the above described parts are readily separable for the purpose of making repairs, one of the principal of which will be the renewal of the valve 11, and that this valve-plate or disk can be easily and quickly replaced.

Having thus fully described my invention, what I claim as new and wish to secure by Letters Patent of the United States, is—

1. A cock having a chamber with an inlet and a wall with a plain surface having a discharge opening therethrough, a valve seated against said wall and controlling the discharge from the chamber, said chamber having a third opening opposite said wall large enough for the placing and removal of the valve, with an annular flange surrounding said opening externally screw-



threaded and provided with an internal  
shoulder, a valve stem passing out through  
said third opening and adapted to open  
and close the valve by a longitudinal move-  
5 ment of the stem, a cylindrical box sur-  
rounding said extended stem, said box hav-  
ing an oblique slot through its side and an  
internally screw-threaded flange to screw  
upon the threaded-flange of the chamber, a  
10 packing in this last flange between its shoul-  
der and the cylindrical box and a handle  
secured to the sleeve and passing out through  
the oblique slot of said box.

2. A cock having a chamber with inlet  
15 and discharge openings, a valve controlling  
said discharge opening, a stem for said  
valve passing out of said chamber, means

for packing around the stem where it passes  
out of the chamber to prevent leakage, a  
handle to rock the stem, a cylindrical box 20  
surrounding the stem said box having an  
oblique slot through which the handle passes  
and said handle having a reduced and ob-  
lique portion to fit the said oblique slot, and  
a cap on the outer end of the box having 25  
a socket in which the end of the stem enters.

In witness whereof, I, have hereunto set  
my hand and seal at Indianapolis, Indiana,  
this 4th day of February, A. D. one thou-  
sand nine hundred and nine.

EDWARD A. STRONG, SR. [L. S.]

Witnesses:

F. W. WOERNER,  
L. B. WOERNER.