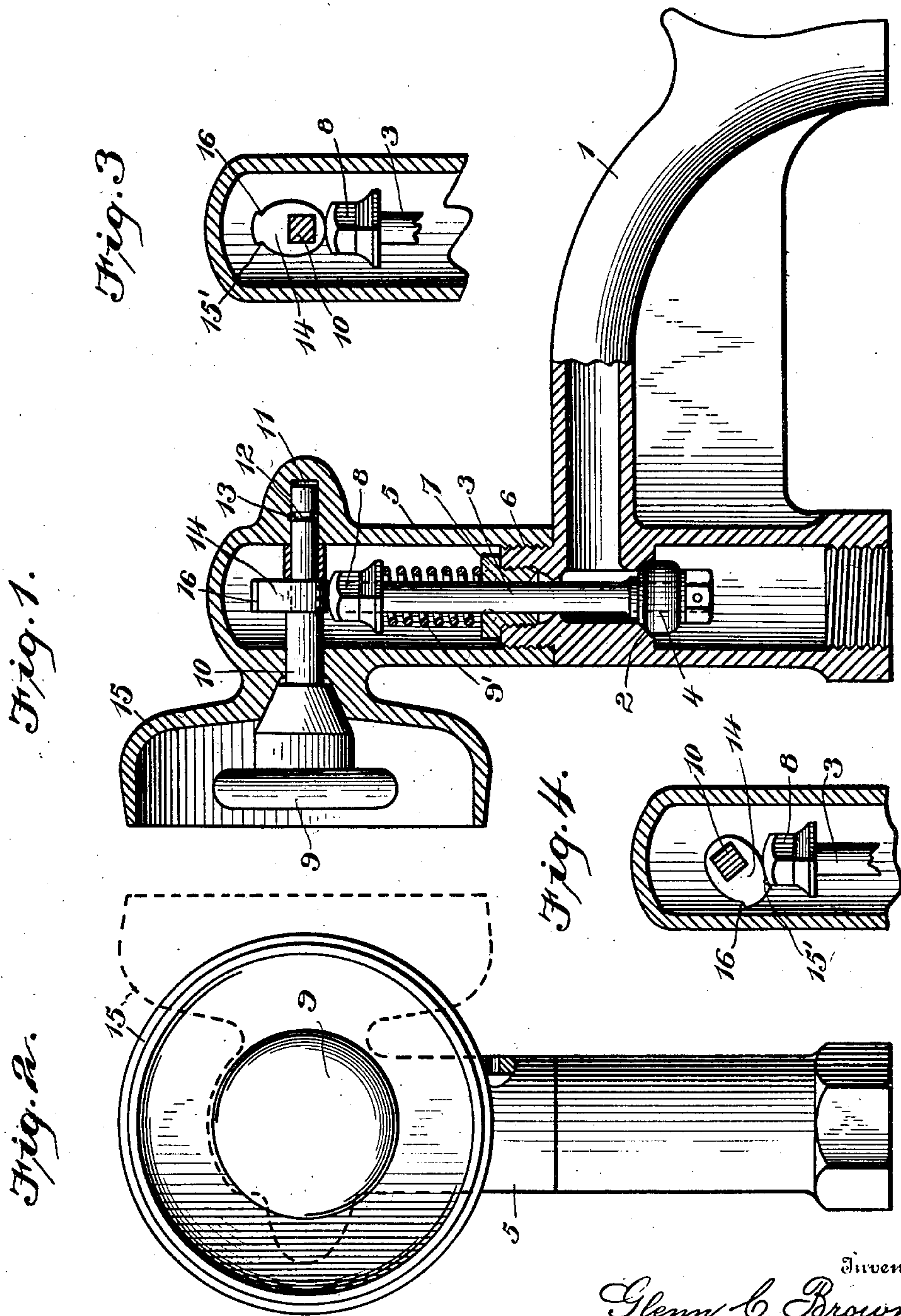


No. 862,879.

PATENTED AUG. 13, 1907.

G. C. BROWN.
FAUCET.

APPLICATION FILED SEPT. 19, 1904.



Witnesses

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UNITED STATES PATENT OFFICE.

GLENN C. BROWN, OF BESSEMER, ALABAMA.

FAUCET.

No. 862,879.

Specification of Letters Patent.

Patented Aug. 13, 1907.

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To all whom it may concern:

Be it known that I, GLENN C. BROWN, a citizen of the United States, residing at Bessemer, in the county of Jefferson and State of Alabama, 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon which form a part of this specification.

My invention relates to valves and faucets, and has for its object to provide a device of this class wherein the pressure of the water assists in closing the valve.

15 A further object of my invention is to provide a device which is so constructed that it is impossible to allow the valve to remain in an open position, thereby insuring against an undue waste of water.

20 A further object of my invention is to provide a faucet which is so constructed that the operating handle may readily be swung into the most desirable position for operating the valve.

With these objects in view my invention consists in the novel construction of the valve and faucet.

25 My invention also consists in the novel arrangement of the operating handle and guard.

30 My invention also consists in certain other novel features of construction and in combinations of parts, which will be first fully described and afterwards pointed out in the appended claims.

Referring to the accompanying drawing: Figure 1 is a vertical section showing the valve and faucet. Fig. 2 is a rear elevation. Fig. 3 is a fragmentary transverse vertical sectional view taken on line 3—3 of Fig. 1, showing the valve stem in a raised position and Fig. 4 is a similar view showing the valve stem in a lowered position.

Like numerals of reference indicate the same parts throughout the several figures in which:

40 1 indicates the faucet, which is constructed preferably as shown and which is provided with the valve seat 2.

3 indicates the valve stem, which carries the valve 4 below the valve seat 2.

45 5 indicates the shell, which is threaded to the faucet at 6, and 7 indicates a packing nut, through which the valve stem 3 passes. 8 indicates a suitable head for said valve stem 3, and 9 is a spring having an extension strain carried on the valve stem 3, the ends thereof bearing against the packing nut 7 and the head 8 and normally tending to hold the said head 8 in a raised position.

tion.

9 indicates the operating handle, which is provided with a stem 10, said stem entering the shell 5 and passing into a recess 11, as shown in Fig. 1. The said stem 10 is provided with a groove 12, and a pin 13 is passed through the shell 5 at right angles to the stem 10, engaging said stem within the groove 12 and locking the operating handle in position. Carried on the stem 10 is a cam 14 which is provided with two shoulders 15' 60 and 16, as shown in Figs. 3 and 4.

Having thus fully described the several parts of my invention, its operation is as follows: The device as shown in Fig. 1 illustrates the valve in a normal or closed position, the pressure of the water tending to 65 seat the valve 4 and tending to assist the spring 9'. When it is desired to open the valve, the operating handle 9 is grasped and turned in either direction, the cam 14 acting against the head 8 depressing the same, and releasing valve 4 away from the seat 2, thus allowing the water to pass through the valves. However, it will be seen by referring to Fig. 4 that the shoulders 16 and 15' are located so as to prevent a complete revolution of the operating handle, so that the upward pressure of the head 8 will always act against the cam 14 75 in such manner as to revolve the operating handle so that the valve 4 can become seated.

Experience has shown that devices of this class cannot conveniently be universally employed, and it is necessary often-times to employ faucets which have 80 the operating handles located in front or behind, or on either side, as the location of the faucets makes a universal location of the operating handles inconvenient. I have provided, however, for this by constructing the device so that the shell 5, guard 15 and operating handle 9 may be revolved around the faucet, so that the operating handle may be located in the most convenient position for easily operating the same.

As shown in Fig. 2, the guard 15 is illustrated in dotted lines at right angles to the guard shown in full lines, 90 and it is immaterial as far as the action of the cam 14 on the head 8, what position the operating handle 9 is in relative to the faucet.

Having thus fully described my invention, I do not wish to be understood as limiting myself to the exact 95 construction as herein set forth, as various slight changes may be made therein which would fall within the limit and scope of my invention and I consider myself clearly entitled to all such changes and modifications.

What I claim as my invention and desire to secure by Letters Patent of the United States is:

5 In a faucet, the combination of a shell having a vertically disposed chamber therein, a transverse chamber and a handle guard formed integral with said shell, a faucet, a valve seat therein below the bore thereof, a valve under said seat, a stem for said valve, said stem extending into said vertically disposed chamber in said shell, a handle within said guard on said shell, a stem for said handle en-

tering said transverse chamber in said shell, and a cam on 10 said handle stem for engagement with said valve stem, said shell, guard handle and handle stem being revoluble on the faucet, substantially as described.

In testimony whereof, I affix my signature, in presence of two witnesses.

GLENN C. BROWN.

Witnesses:

C. J. LOMAX,

W. H. SLOGGETT.