

No. 893,770.

PATENTED JULY 21, 1908.

J. A. WILSON.

SHOWER VALVE AND VALVE BOX.

APPLICATION FILED JUNE 14, 1907.

Fig. 1

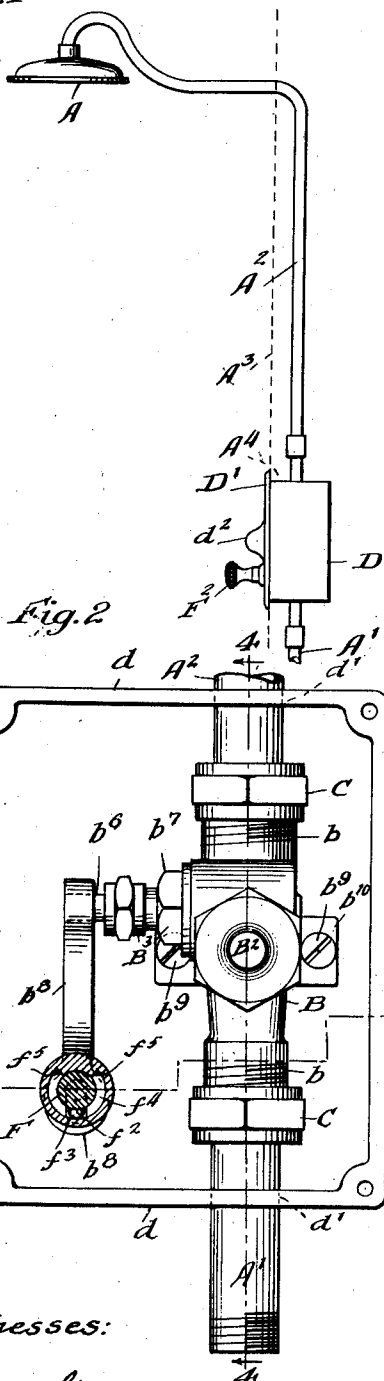


Fig. 2

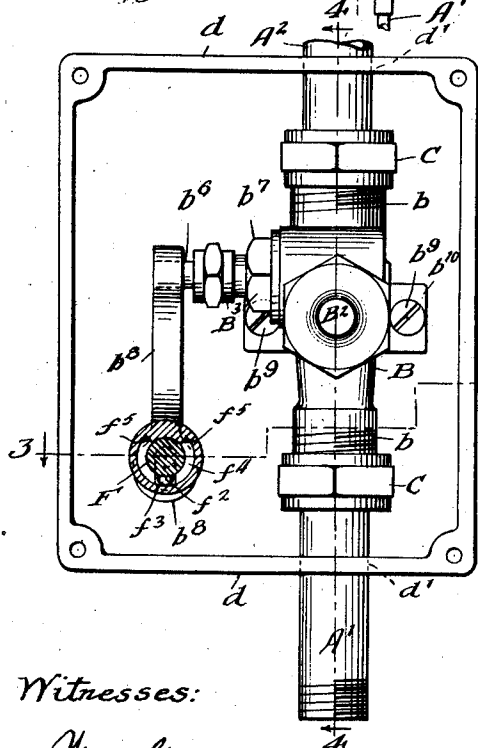


Fig. 3

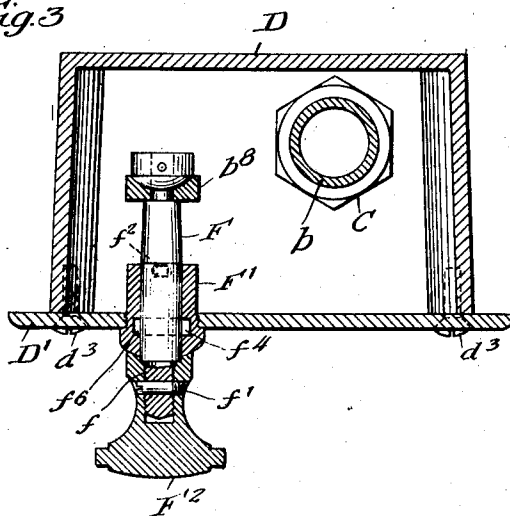
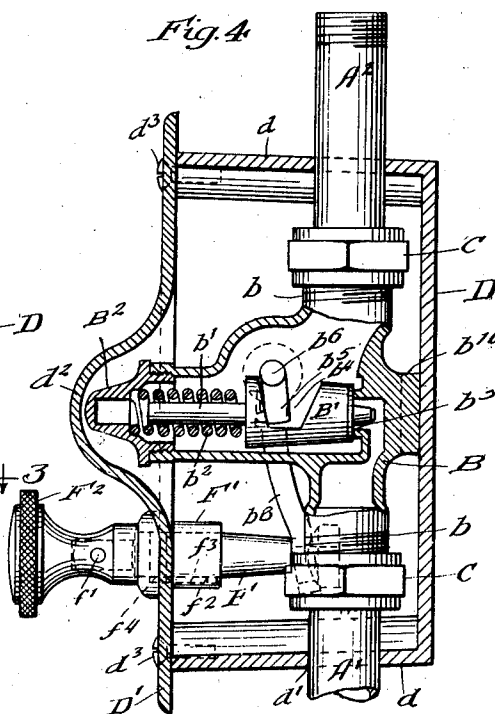


Fig. 4



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UNITED STATES PATENT OFFICE.

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SHOWER-VALVE AND VALVE-BOX.

No. 893,770.

Specification of Letters Patent.

Patented July 21, 1908.

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To all whom it may concern:

Be it known that I, JAMES A. WILSON, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Shower-Valves and Valve-Boxes, of which the following is a specification.

My invention relates to improvements in shower valves and mechanism for operating the same.

The object of my invention is to provide a shower bath valve and operating mechanism therefor of a strong, simple, efficient and durable construction, in which the valve will be self closing, may be conveniently set in its open position, in which the valve and its operating mechanism may be concealed in a box seated in the partition or wall and securely inclosed to prevent tampering with the valve or its operating mechanism, while at the same time it is readily accessible for removal or repairs, and in which the valve and its operating mechanism may be quickly and conveniently applied.

My invention consists in the means I employ to practically accomplish this object or result, as herein shown and described and more particularly set forth in the claims.

In the accompanying drawing, forming a part of this specification, Figure 1 is a side elevation of a shower bath and valve box embodying my invention; Fig. 2 is a front view, partly in vertical section with the removable cover of the valve box removed; Fig. 3 is a horizontal cross section on line 3—3 of Fig. 2, and Fig. 4 is a vertical longitudinal section on line 4—4 of Fig. 2.

In the drawing A represents a shower-bath head or nozzle, A¹ the inlet or supply pipe leading to the valve, A² the outlet leading from the valve to the shower and A³ the partition or wall in which the valve and its operating mechanism and inclosing box are seated, all these parts being of any customary or suitable construction.

B is the valve shell having the customary threaded nipples *b* and coupling nuts C connecting the same with the inlet and outlet pipes A¹ A².

B' is the valve, the same being self-closing, and having a stem *b*¹ and spring *b*² surrounding the same to automatically close the valve B' against the valve seat *b*³ of the valve shell B. The spring *b*² bears at one end against the valve B' and at its outer end against the

screw threaded cap B² which is secured to the valve shell. The valve B' has a recess *b*⁴ to receive the valve operating arm *b*⁵, the shaft *b*⁶ of which turns in a removable coupling nut or stuffing box B³ which is secured to the valve shell B by screw threads and a nut *b*⁷. At its outer end the shaft *b*⁶ of the operating arm *b*⁵ is provided with a crank arm *b*⁸. The valve shell B is firmly secured to the valve box D by screws *b*⁹ which are inserted through base flanges *b*¹⁰ with which the valve shell B is provided.

D is my wall-seated shower-bath-valve and valve-mechanism inclosing box which, in connection with the removable cover D¹, serves not only to inclose and conceal from view but also to coöperatively combine and support the shower valve or cock and its operating mechanism or pull. The valve box D is provided at its ends *d* with openings *d*¹ to receive the inlet and outlet pipes A¹ A²; and its removable cover D¹ is furnished with a hemispherical recess or hollow boss *d*² to accommodate the screw cap B² of the valve shell B. The cover D¹ is removably but permanently secured to the valve box D by screws *d*³, and the marginal ends of the cover project beyond the box D so that it may fit flat against the outer surface of the wall or partition and fully cover and conceal the recess A⁴ in the wall in which the box D fits.

F is the valve operating device or pull, connected at its inner end with the crank arm *b*⁸, and extending through a hollow valve-set sleeve F¹ in the removable cover D¹ of the valve box, and provided at its outer end with a pull handle or knob F², which is preferably removably secured to the pull rod F by screw threads *f* and a pin or screw *f*¹ to prevent the knob or handle turning on the pull rod. The pull F is furnished with a valve set or projection *f*² which is adapted to fit and reciprocate in the longitudinal way or channel *f*³ in the valve set sleeve F¹ when the rod F is pulled outward, and to fit and turn in the transverse slot or channel *f*⁴ in the valve set sleeve F¹ when the pull rod F is rotated, so as to cause the same to engage the stop shoulder *f*⁵ of the valve set sleeve F¹ and thus set the valve in its open position while the shower is in use. The outer shoulder *f*⁶ of the valve set sleeve F¹ limits the outward movement of the pull rod F, so that no destructive or injurious strain can be exerted upon the valve or its operating mechanism through

the pull rod F or its handle F³. The valve set sleeve F¹ is rigidly and irremovably secured to the valve box cover D¹.

I claim:

5 1. The combination with a shower head, of a valve and valve operating mechanism therefor, comprising a wall-seated valve-inclosing box, a valve shell secured to the inner upright wall of said box, inlet and outlet pipes connecting with the valve shell and extending through the ends of said box, a self closing valve in said shell, a valve operating arm, shaft and crank-arm, a removable cover for said box, a valve-set sleeve secured to said cover and having a valve-set shoulder, a valve-pull-rod extending through said valve-set sleeve and connected with said crank-arm of the valve and provided with a valve-set projection to set the valve in its open position when the shower is in use, substantially as specified.

2. The combination with a valve and valve shell and mechanism for operating the valve, of a wall-seat box embracing said valve shell, valve and valve operating mechanism, a removable cover for said box, a valve-pull-rod extending through the cover of the box and having a valve-set projection and a valve-set sleeve on the cover of the box, substantially as specified.

3. The combination with a self closing valve, of an inclosing box therefor having a removable cover, a valve set sleeve on said cover and a valve pull extending through said valve set sleeve, and interengaging devices on the valve pull and valve set sleeve for operating said valve, substantially as specified.

4. The combination with a self closing valve, of an inclosing box therefor having a removable cover, a valve set sleeve on said cover and a valve pull extending through said valve set sleeve, said valve pull having a valve set shoulder for engaging the valve set sleeve for operating said valve, substantially as specified.

5. The combination with a self closing valve, of a wall-seat box inclosing the same, a removable cover for said box, a valve-set sleeve on said cover and a valve-pull having a valve-set projection engaging said valve-set sleeve to hold the valve open, substantially as specified.

6. The combination with a self closing valve, of a wall-seat box inclosing the same, a removable cover for said box, a valve-set sleeve on said cover and a valve-pull having a valve-set projection engaging said valve-set sleeve to hold the valve open, the shell of said valve being secured to said valve box, substantially as specified.

7. The combination with a valve box D

having a removable cover D¹, of a valve shell secured to said box, a self closing valve in said shell, and an operating lever therefor, a valve set sleeve on said box cover, a valve pull extending through said valve set sleeve and connecting with said valve operating lever, said valve pull having a device engaging the said valve sleeve for operating said valve, substantially as specified.

8. The combination with a valve box D having a removable cover D¹, of a valve shell secured to said box, a self closing valve in said shell, and an operating lever therefor, a valve set sleeve on said box cover, a valve pull extending through said valve set sleeve and connecting with said valve operating lever said valve pull having a device engaging the said valve sleeve for operating said valve, said valve cover having a hollow enlargement to accommodate the cap of the valve shell against which the spring of the valve abuts, substantially as specified.

9. The combination with a valve box D of a removable cover D¹, a valve shell B having a screw cap B², a valve B¹ furnished with an operating stem and spring, an arm for operating said valve, a valve set sleeve on said cover, and a pull rod having a valve set projection, substantially as specified.

10. The combination with a valve box B having a removable cover D¹, a valve shell B having a screw cap B², a valve B¹ furnished with an operating stem and spring, an arm for operating said valve, a valve set sleeve on said cover, a pull rod having a valve set projection, and a handle for said pull rod, substantially as specified.

11. The combination with a self closing valve, of a wall seat box inclosing the same, a pull for operating the valve, said box having a removable cover upon which said operating pull is mounted, and a valve set sleeve on said cover through which said pull extends, said valve pull having a device engaging the said valve sleeve for operating said valve, substantially as specified.

12. The combination with a self closing valve, of a wall seat box inclosing the same, a pull for operating the valve, said box having a removable cover upon which said operating pull is mounted, a valve set sleeve on said cover through which said pull extends, and inlet and outlet pipes connected to said valve and extending through the ends of said box, said valve pull having a device engaging the said valve sleeve for operating said valve, substantially as specified.

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Witnesses:

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