

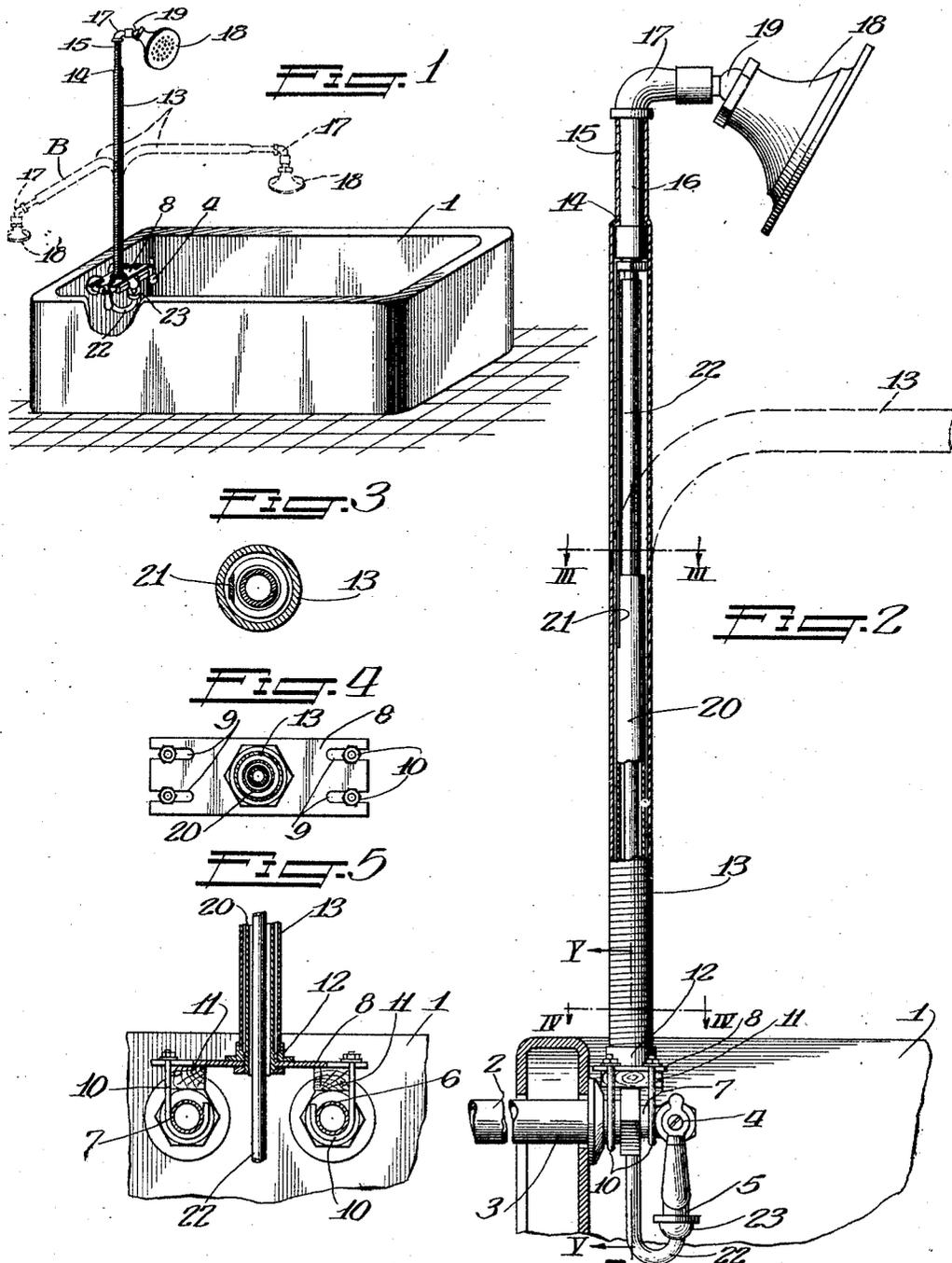
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SHOWER FIXTURE

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# UNITED STATES PATENT OFFICE.

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## SHOWER FIXTURE.

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This invention relates to an improved adjustable shower fixture adapted to be removably clamped on the faucet fixture of a bath tub, a foot tub, sink or other basin, and  
 5 having a flexible standard supporting a spray nozzle or head, with said standard being of the spring or goose neck type permitting said standard to be conveniently deflected or bent into different positions so  
 10 that the shower nozzle may be located at different elevations and directed to different portions of a person's body using the improved adjustable shower fixture.

It is an object of this invention to provide  
 15 an improved shower fixture adapted to be removably clamped on a bath tub faucet and having a flexible standard supporting a spray nozzle, said standard adapted normally to stand in an upright position.

It is also an object of this invention to provide  
 20 an improved shower fixture adapted to be readily connected on a faucet of a bath tub or the like, with said fixture having a spring standard which carries a spray nozzle  
 25 with said standard provided with a strap spring for normally holding the same in a predetermined plane when the standard is in its upright position or when the same is bent over for use.

It is a further object of this invention to provide an improved shower fixture provided with a clamp to permit the same to be removably engaged on a bath tub faucet  
 30 or the like with said clamp rotatably supporting a spring or flexible standard supporting a spray nozzle with said standard arranged to permit the same to be bent over to locate the shower spray at different elevations.

It is an important object of this invention to provide an improved shower fixture adapted to be removably engaged on a water faucet and connected with the faucet nozzle with said shower fixture comprising a spring  
 45 or goose neck standard rotatably supported on the clamping fixture and having a stiffening pipe therein and a strap spring so that when the goose neck standard is bent over the upper portion thereof will be held in  
 50 substantially a set position against lateral swinging, thereby holding a shower nozzle

on the outer end of the goose neck standard in substantially a set position for use.

Other and further important objects of this invention will be apparent from the  
 55 disclosures in the specification and the accompanying drawings.

This invention (in a preferred form) is illustrated in the drawings and hereinafter  
 60 more fully described.

On the drawings:

Figure 1 is a perspective view of a bath tub having an improved shower fixture embodying the principles of this invention removably clamped on the bath tub faucet and  
 65 showing the shower fixture in dotted lines to represent various positions of adjustment of the fixture with respect to the bath tub.

Figure 2 is an enlarged fragmentary vertical section of the improved shower fixture supported on a portion of a bath tub faucet  
 70 fixture and illustrating the flexible standard of the shower fixture bent into a dotted line position.

Figure 3 is an enlarged transverse section of the shower fixture standard taken on  
 75 line III—III of Figure 2.

Figure 4 is an enlarged horizontal sectional view of the shower fixture taken on  
 80 line IV—IV of Figure 2.

Figure 5 is a fragmentary vertical detail section of the lower portion of the shower  
 85 fixture taken on line V—V of Figure 2.

As shown on the drawings:

The reference numeral 1 indicates a bath tub or basin equipped with a cold water  
 85 supply pipe 2 and a hot water supply pipe 3 which are conducted through openings in one of the walls of the bath tub and have a standard faucet fixture 4 mounted on the  
 90 ends thereof. The faucet 4 is provided with a nozzle 5 which is common to both of the water supply pipes 2 and 3 so that water may be admitted into the bath tub 1 at a  
 95 desired temperature. The faucet 4 has pipes 6 and 7 forming a part thereof with said pipes connected respectively to the cold water supply pipe 2 and the hot water supply pipe 3 in the usual manner.

The improved shower fixture of this invention  
 100 comprises a mounting or base plate 8 provided with a pair of notches or slots 9 in

each end thereof for the reception of removable hook bolts 10 which are adapted to be removably engaged on the faucet pipes 6 and 7 as clearly illustrated in Figure 5 to rigidly clamp the base plate upon the faucet. The base plate 8 is adapted to rest on inserts or blocks 11 inserted between the faucet 4 and the bottom surface of the base or mounting plate 8. In cases where the base plate 8 is adapted to rest flatly upon the faucet pipes, the inserts or blocks 11 may of course be omitted. The mounting plate 8 is provided with an opening to permit a friction coupling or socket 12 to be rotatably mounted on the plate. Rigidly secured in the friction socket 12 and projecting upwardly is the lower end of a flexible standard or spring coiled pipe 13 formed of a heavy coiled spring. The upper end of the flexible spring standard or pipe 13 is reduced in diameter at 14 to form an upper restricted section 15 to receive the shank 16 of a pipe elbow 17 on the outer end of which a shower or spray nozzle or head 18 is movably mounted by means of a universal or ball and socket joint 19.

Secured in the friction socket 12 within the flexible standard or upright pipe 13 is the lower end of a metal brace pipe or standard 20 which may extend upwardly through the flexible standard or pipe to a point substantially half way up or to any other desired height to stiffen or reinforce the lower end of the flexible standard or pipe to hold the same in a vertical position. The upper rear end of the reinforcing pipe 20 is cut away or notched to receive the lower end of a strap spring 21 which extends upwardly toward the top of the flexible standard or goose neck pipe 13 to within a short distance of the shank 16 of the spray nozzle. The spring strap 21 has the lower end thereof rigidly secured to the reinforcing pipe 20 and affords a means for preventing the upper flexible end of the standard 13 from swinging transversely of its own accord when the flexible pipe is bent into a dotted line position similar to that illustrated in Figure 1. The strap spring 21 while serving as a means for holding the upper end of the flexible standard in a predetermined position of course also permits the upper end of the flexible standard to be twisted sideways by a person to a certain extent. Projecting axially through the flexible standard 13 and through the reinforcing pipe 20 in the lower portion thereof is a water hose or flexible pipe 22, the upper end of which is coupled to the inner end of the shank 16 which connects up with the spray nozzle 18. The lower end of the rubber hose or pipe 22 projects downwardly through the mounting or base plate 8 and has a coupling socket 23 engaged on the end thereof for removable engagement with the mouth end of the faucet nozzle 5.

The improved adjustable shower fixture may be readily clamped in position upon the faucet fixture of a bath tub or basin to position the flexible standard or pipe 13 in a substantially upright position with the spray nozzle 18 of course directed over the bath tub or basin as clearly illustrated in Figure 1 of the drawings. The hose cap or coupling 23 is now adapted to be removably inserted over the end of the faucet nozzle 5 so that when the faucet handles are operated or open a supply of either cold, hot, or lukewarm water may be admitted through the flexible hose 22 upwardly through the goose neck pipe 13 to be discharged through the shower spray nozzle 18. The improved shower fixture may be used in the position illustrated in full lines in Figure 1 or if desired the upper portion of the shower fixture may be bent over into a position similar to that illustrated in dotted lines in Figure 1 so that the spray nozzle is directed over the middle portion of the bath tub 1 or in any other desired or selected position so that a spray of water may be directed onto different parts of the body of a person using the improved shower fixture. When the shower fixture is bent over into the dotted line position illustrated in Figure 1 the strap spring 21 serves to hold the fixture in its adjusted or bent over position so that the flexible outer end of the shower fixture will not move of its own accord transversely of the tub so that there would be any danger of water discharged from the shower nozzle 18 being directed out of the tub. In case it is desired to spray water onto an object outside of the tub, the flexible standard may be rotated with respect to the mounting plate 8 by simply turning the same, which turning is permitted by the friction socket 12 mounted upon the base plate 8. It will thus be noted that the standard may be rotated with respect to the mounting plate 8 so that the upper end of the flexible standard may be bent into the position B of Figure 1.

The reinforcing or stiffening pipe 20 engaged in the lower section of the goose neck or flexible pipe 13 may be of any desired height depending upon how much of the flexible standard is to be deflected or bent over.

While the improved adjustable shower fixture is described in connection with a bath tub, it will of course be understood that the improved shower fixture may be adapted for use in connection with basins of any kind and may be connected with water supply pipes or faucets located in different positions, as for example on the faucet of a stationary tub located in a cement basement or the like to permit the shower fixture to be used as a temporary shower for children in locations where bathing beaches are not available.

It will of course be understood that many changes may be made and that numerous de-

tails of construction may be varied through a wide range without departing from the principles of this invention, and it is therefore not purposed limiting the patent granted hereon otherwise than necessitated by the scope of the appended claims.

I claim as my invention:

1. A shower fixture comprising a base, means for removably clamping the same upon a faucet fixture, a flexible standard, a shower nozzle adjustably supported thereon, and a flexible feed pipe connecting said shower nozzle with the faucet fixture on which the shower fixture is mounted.

2. A shower fixture comprising a base, means for removably clamping the same on a faucet fixture, a goose neck flexible standard supported on said base, stiffening means within said flexible standard, a shower nozzle adjustably supported upon the upper end of said flexible standard, a flexible water supply hose within said flexible standard and projecting from the lower end thereof, and means on the exposed end of said hose adapted to be removably engaged on the faucet fixture.

3. A shower fixture comprising a base plate, means for clamping the same on a faucet fixture, a flexible standard supported on said base plate, a reinforcing pipe positioned within said flexible standard and projecting partially into said standard, a flat spring strap secured to said reinforcing pipe and disposed longitudinally within the upper portion of said flexible standard, a hose projecting through said flexible standard and through said reinforcing pipe and out of the lower end of the shower fixture, means on the exterior end of said hose to permit connection with the faucet fixture, an elbow projecting into the upper end of said flexible standard with the inner end of said elbow connected with said hose, a shower nozzle, and a universal connection joining said shower nozzle with said elbow.

4. A shower fixture comprising a base adapted to be removably clamped on a faucet fixture, a flexible standard mounted on said base, means within the standard for reinforcing a portion thereof, a shower nozzle adjustably mounted on the upper end of said flexible standard, and means connecting said shower nozzle with said faucet fixture.

5. A shower fixture comprising a base adapted to be removably clamped on a faucet fixture, a goose neck standard rotatably supported on said base, a shower nozzle adjustably supported on the upper end of said goose neck standard, and pipe connections projecting through said goose neck standard and connected with said shower nozzle and with said faucet fixture.

6. A shower fixture comprising a base adapted to be removably clamped on a water supply faucet, a flexible standard rotatably

mounted on said base, stiffening means within said flexible standard, a shower nozzle adjustably supported on the upper end of said flexible standard, and means projecting through said flexible standard connecting said shower nozzle with the water supply faucet.

7. A shower fixture comprising a base member, clamping means adjustably engaged thereon to support the base member on a water supply fixture, a coiled spring standard adjustably supported on said base member, stiffening means within said coiled spring standard, an elbow engaged in the upper end of said coiled spring standard, a water supply hose within said coiled spring standard and projecting from the lower end thereof to be removably connected with the water supply faucet, a shower nozzle, and a ball and socket joint connecting said shower nozzle with said elbow.

8. A shower fixture comprising a base, hook bolts adjustably engaged thereon to facilitate clamping the base on a faucet fixture, a coiled spring standard adjustably mounted on said base, a reinforcing pipe supported on said base and projecting upwardly through the lower portion of said coiled spring standard, a strap spring disposed longitudinally within the upper portion of said coiled spring standard and having the lower end thereof secured to said reinforcing pipe, an elbow engaged in the upper end of said coiled spring standard, a hose in said coiled spring standard connected with said elbow and projecting downwardly through the reinforcing pipe and out of the lower end thereof, means on the outer end of said hose to permit the same to be connected with said faucet fixture, and a shower nozzle adjustably supported on the outer end of said elbow.

9. A shower fixture comprising a base adapted to be removably clamped on a faucet fixture, a flexible standard supported on said base, a nozzle adjustably supported on the upper end of said flexible standard, a flexible hose connection in said flexible standard, and projecting from the lower end thereof and adapted to be removably connected with said water faucet, and means within said flexible standard to reinforce the lower portion thereof permitting the upper portion of the flexible standard to be deflected to position the shower nozzle at different elevations.

10. A shower fixture comprising a flexible standard, a shower nozzle adjustably mounted on one end thereof, a mounting bracket on the other end thereof adapted to be removably clamped upon a water supply faucet, a rigid pipe mounted within the lower portion of said flexible standard, and a strap spring mounted within the upper portion of said flexible standard and connected with said rigid pipe to hold the upper

portion of the flexible standard against lateral swinging when the upper portion of the flexible standard is bent over.

11. A shower fixture comprising a coiled wire standard, a shower nozzle adjustably mounted on one end thereof, a supporting base engaged on the other end of said standard, and a rigid pipe engaged in said flexible

standard and projecting only partially there-through, permitting the upper portion of the flexible standard to be bent over with respect to the lower portion. 10

In testimony whereof I have hereunto subscribed my name at Chicago, Cook County, Illinois.

COREY L. RUSSELL.