June 16, 1942. S. ROYAL 2,286,933

SHOWER SPRAY HEAD WITH DIVERTER

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Fig. 1.

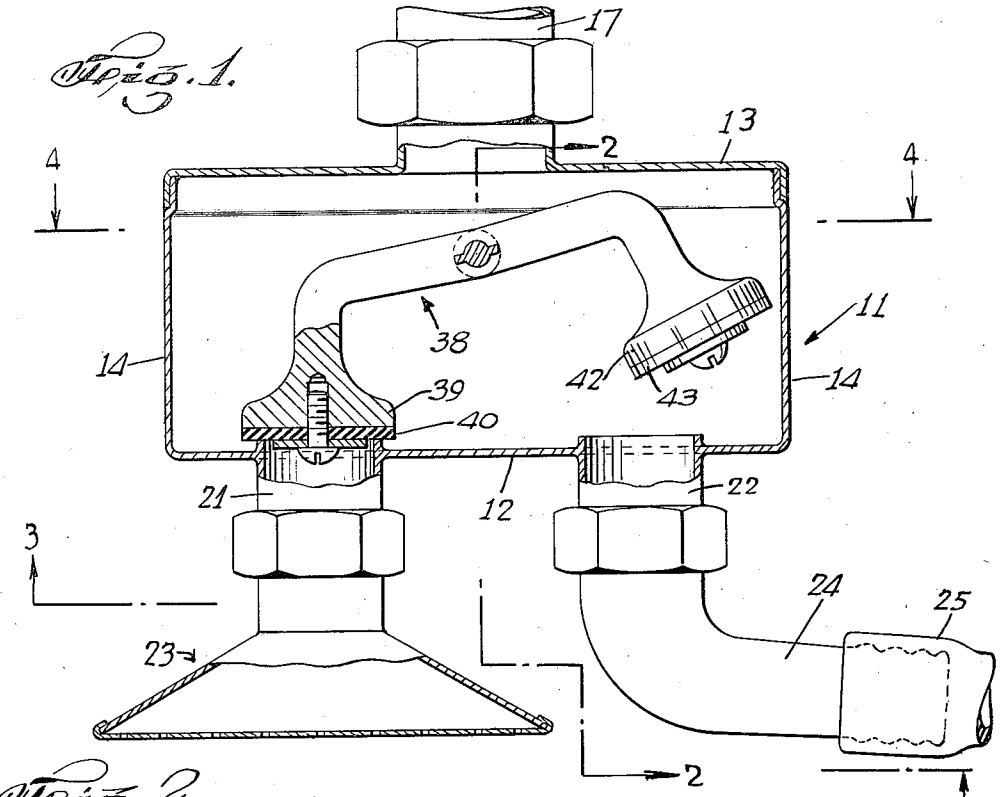


Fig. 2.

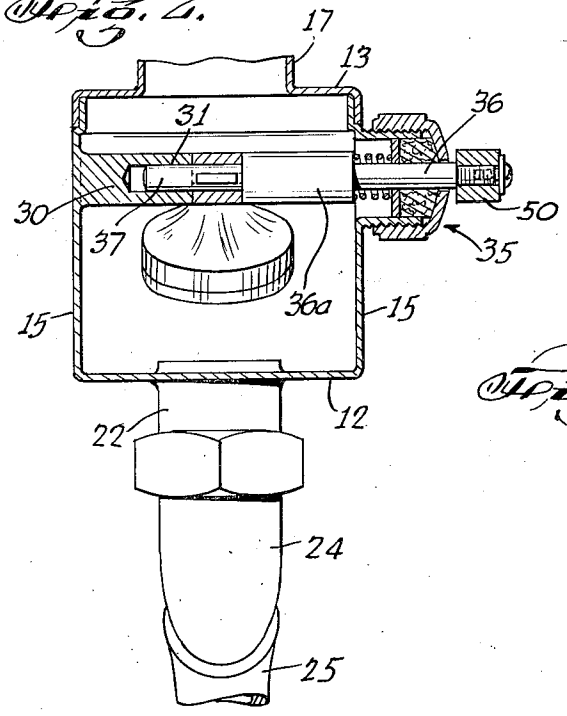
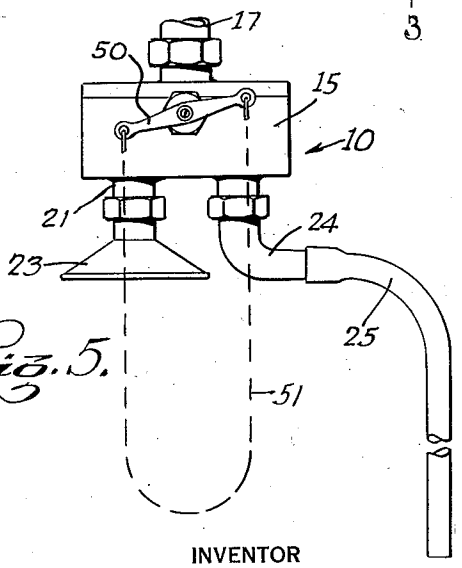


Fig. 5.



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Fig. 3.

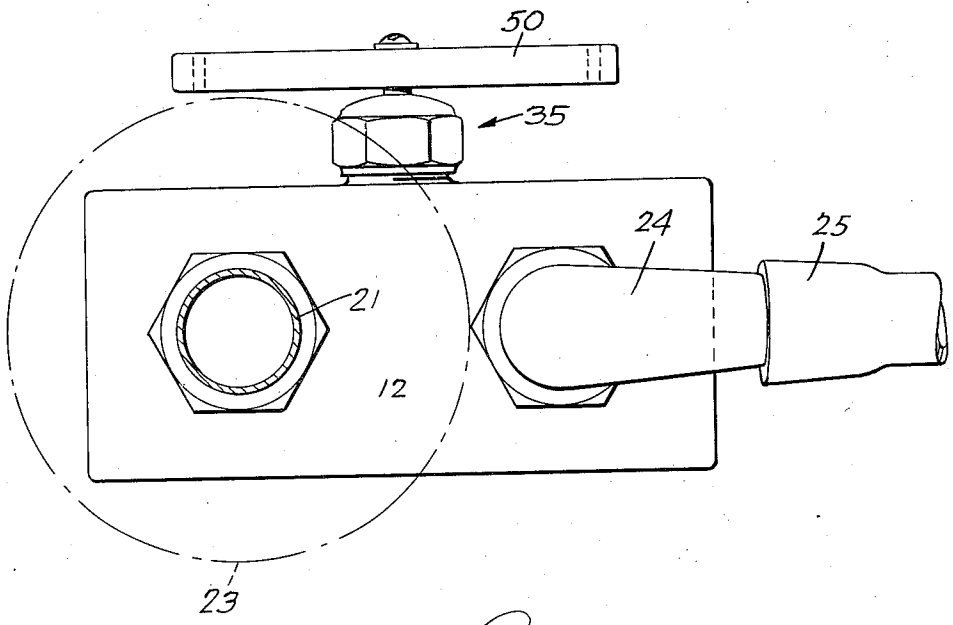
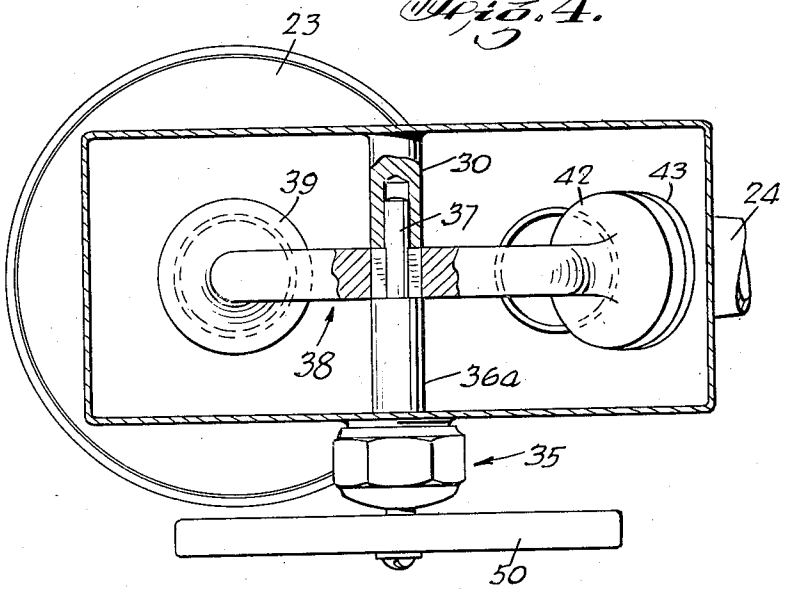


Fig. 4.



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SHOWER SPRAY HEAD WITH DIVERTER

Solomon Royal, Brooklyn, N. Y.

Application May 15, 1940, Serial No. 335,403

4 Claims. (Cl. 239—144)

This invention relates to shower spray head with diverter.

It is well known that after a shower is adjusted to get the right temperature and a person taking the shower is wet, the water must be shut off to permit soaping and then the water has to be turned on and the temperature adjusted all over again which is difficult, particularly when the person is all soaped up. It is therefore an object of the present invention to provide a shower head with diverter of the character described, so constructed that the person may regulate the temperature and may then divert the water to one side while soaping up so that after the person is all soaped up, he may again turn the water back to the spray head, so that the shower may be resumed without necessity for again regulating the temperature of the water.

A further object of this invention is to provide a spray head provided with mechanism to divert the water from the spray head, thereby making it unnecessary to shut off the supply of water until the shower bath is completed.

Thus, with the present invention it is possible for the user to adjust the blend of hot and cold water to the desired temperature at the beginning of the shower bath and thus eliminate the necessity for any further adjustments of the temperature of the blended flow of water.

It is a further object of this invention to provide a device in which the diverted water may be used to wet the soap, the diverted water furthermore serving to wash the soap suds from the floor of the shower stall or bathtub, while the person is soaped up, thereby eliminating the dangerous hazard of slipping.

Yet a further object of the present invention is that the water may be blended while the water is diverted so that the person may stand under the spray head and blend the water to the right temperature without getting the spray of water.

Still another object of this invention is to provide a strong, rugged and durable construction of the character described, which shall be relatively inexpensive to manufacture, easy to manipulate and yet practical and efficient to a high degree in use.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements, and arrangement of parts which will be exemplified in the construction hereinafter described, and of which the scope of application will be indicated in the following claims.

In the accompanying drawings, in which is shown one of the various possible illustrative embodiments of this invention,

Fig. 1 is an elevational, cross-sectional view of the spray head and diverter;

Fig. 2 is a cross-sectional view taken on line 2—2 of Fig. 1;

Fig. 3 is a cross-sectional view taken on line 3—3 of Fig. 1;

Fig. 4 is a cross-sectional view taken on line 4—4 of Fig. 1; and

Fig. 5 is a side elevational view of the device embodying the invention.

Referring now in detail to the drawings, 10 designates shower apparatus embodying the invention. The same comprises a box or chamber 11 having a bottom wall 12, a top wall 13, end walls 14 and side walls 15. Connected to the top wall 13 is a water inlet pipe 17.

Connected to the bottom wall 12 are a pair of downwardly extending spaced nipples 21 and 22 projecting somewhat above said bottom wall. Connected to the nipple 21 is a shower spray head 23 of any suitable construction. Connected to the nipple 22 is an elbow fitting 24 having an arm extending to one side and connected thereto, is a pipe 25 projecting downwardly.

Extending from one side wall 15 toward the other, is a stud 30 formed with a bore 31. The other side wall 15 is formed with a packing gland 35, in which is rotatably mounted a horizontal axle 36. Said axle 36 has mediately the ends thereof an enlarged shoulder 36a. At one end of the axle 36 is a portion 37 rotatably mounted within the bore 31. The enlarged shoulder 36a is spaced from the stud 30.

Mounted on the portion 37 of the axle 36 and between the stud 30 and the shoulder 36a, is a lever 38 fixed to the axle for rotation therewith. On one arm of lever 38 is an enlarged head 39, and attached to the underside thereof, is a washer 40 adapted to be seated on the upper end of the nipple 21.

Thus, when the axle 36 is rotated in one direction, the head 39 cuts off water from the shower head. On the other arm of the lever 38 is a head 42, to the underside of which is attached a washer 43 adapted to close the upper end of nipple 22 when the axle is rotated in an opposite direction, to shut off the water from the nipple 22.

Fixed to the axle 36 and disposed outside of the box 11, is a lever 50 provided with a pull chain 51 to permit oscillation of the lever in opposite directions.

It will now be understood that when a person gets into a shower stall or tub provided with the improved mechanism embodying the invention, the lever **50** may be turned first to close the shower head, as shown in Fig. 1. In this position, the water is diverted to one side. The user may then blend hot and cold water to obtain the desired temperature. While he is blending the water, the user is not standing in the shower, and therefore may blend the water with comfort, and not while standing under the shower.

When the water is at the right temperature, the chain **51** is pulled to close the water diverter and allow the water to go through said head. After the person is wet, the water may again be diverted to enable the user to soap up. During the soaping up operation, the water going down to the shower stall or bathtub cleans the soap suds to eliminate the danger of slipping. After the soaping operation, the lever **50** may again be rotated to shut the water off from the diverter and to let the water go through the shower head so that the person may finish the shower bath.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawings is to be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A device of the character described comprising a chamber, a water inlet connected to the top wall of the chamber, a shower head connected to the bottom wall of the chamber, a pipe connected to the bottom wall of the chamber and extending to one side thereof, a horizontal axle rotatably mounted on said chamber, a lever carried by said axle and within said chamber having a pair of arms, means on one of said arms to shut off water from the shower head, upon rotating the lever in one direction, and means on another arm of said lever to shut off water from said pipe upon rotating said lever in an opposite direction.

2. A device of the character described comprising a chamber, a water inlet connected to the top wall of the chamber, a shower head connected to the bottom wall of the chamber, a pipe connected to the bottom wall of the chamber and extending to one side thereof, a horizontal axle rotatably mounted on said chamber, a lever on said axle and within said chamber having a pair of arms, means on one of said arms to shut off water from the shower head, upon rotating the lever in one direction, means on another arm of said lever to shut off water from said pipe upon rotating said lever in an opposite direction, and means on the outside of said chamber to rotate said axle in opposite directions.

3. An article of the character described comprising a chamber having a top wall and a bottom wall, an inlet pipe connected to the top wall, a shower head connected to the bottom wall, an elbow connected to the bottom wall and extending to one side thereof, a pipe connected to the elbow, and having a portion extending vertically downward, and means for simultaneously closing the shower head and opening the elbow and vice versa.

4. An article of the character described comprising a chamber having a top wall and a bottom wall, an inlet pipe connected to the top wall, a pair of nipples connected to the bottom wall, a shower head connected to one nipple, an elbow connected to the other nipple and having an arm extending to one side, a pipe connected to said elbow and having a portion extending vertically downwardly, said chamber having side walls, a stud extending from one side wall toward the other and formed with an axial bore, an axle journalled in the other side wall and in said bore, a lever fixed to said axle and having enlarged heads, washers attached to the undersides of said heads, one head being adapted to close one nipple, while the other nipple is uncovered, and the other head being adapted to close the other nipple, while the first nipple is uncovered.

SOLOMON ROYAL.