Nov. 23, 1937. C. H. HAGOPIAN 2,100,186

TUB SHOWER

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FIG 1

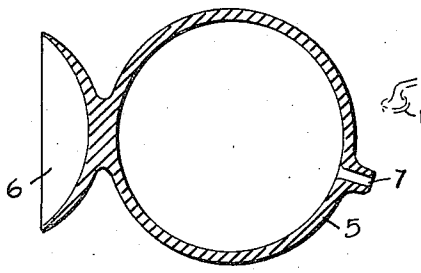


FIG 2

FIG 3

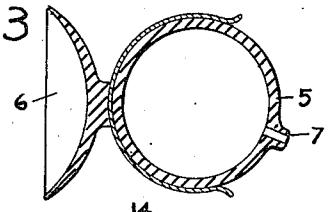
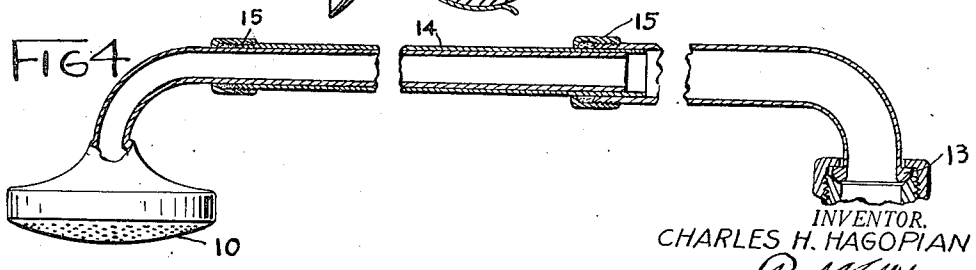


FIG 4



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FIG 5

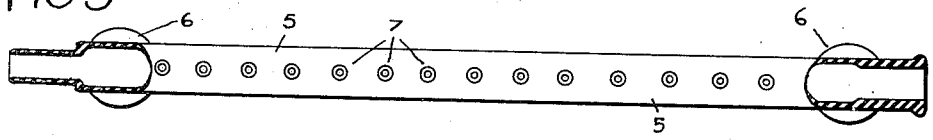


FIG 6

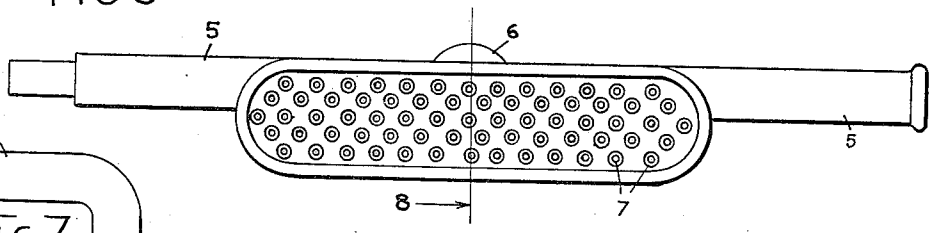


FIG 7

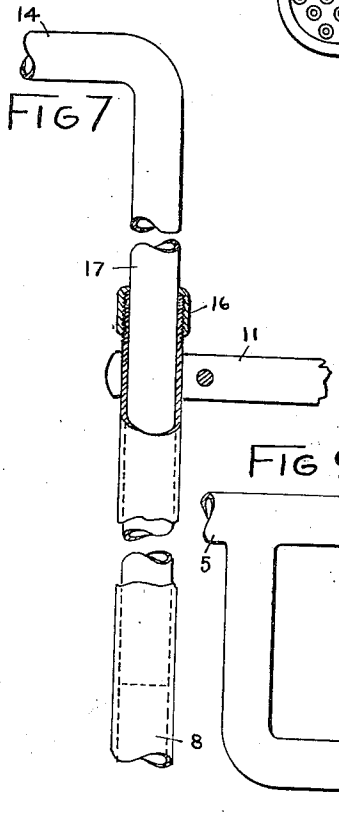


FIG 8

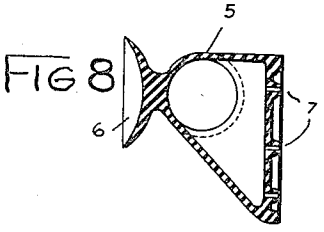
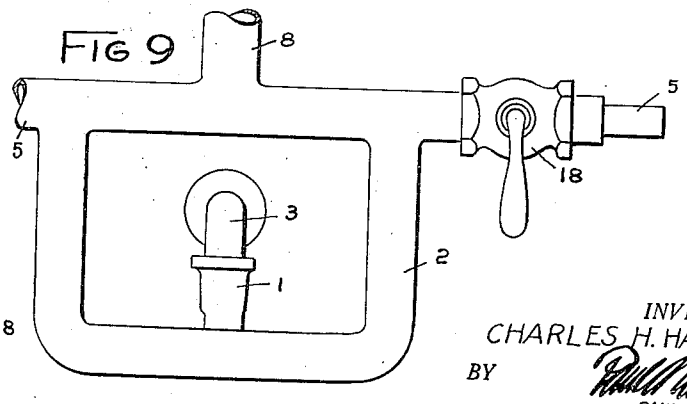


FIG 9



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UNITED STATES PATENT OFFICE

2,100,186

TUB SHOWER

Charles H. Hagopian, New York, N. Y.

Application July 17, 1935, Serial No. 31,762

7 Claims. (Cl. 4—150)

My invention relates to improvements in bath showers and particularly to shower attachments for bath tubs and has among its objects the following:

To provide a shower which may be used by the bather while sitting in the bath tub.

To provide a shower which may be used and easily adjusted to bath tubs of various sizes and designs.

To provide a shower which may be used without a spray curtain yet confining the spray from the shower to the confines of the bath tub.

I accomplish these and other objects by the construction herein described and shown in the accompanying drawings forming a part hereof in which:

Figure 1 is a transverse section of the shower hose through one of the suction cups and nozzles.

Figure 2 is a perspective view showing the application of my device.

Figure 3 is a section showing the application of the spring suction cup.

Figure 4 is a longitudinal section of the telescoping head shower.

Figure 5 is a modification showing one of the sections of the spray tube.

Figure 6 is a view of the back and side shower section of the spray tube.

Figure 7 is a modification showing a telescoping riser.

Figure 8 is a section at 8, Figure 6.

Figure 9 is an enlarged elevation of the manifold showing one of the spray tube connections and valve for controlling the water supply to it.

Similar reference characters refer to similar parts throughout the several views of the accompanying drawings and in the following specifications.

I have provided a universal fitting (1) suitable for attaching the spray manifold (2) to the faucet (3) of the bath tub (4) thereby connecting my device to the source of supply of hot and cold water.

The manifold (2) is preferably of metal or other hard material and the universal fitting (1) is preferably detachable from the manifold and interchangeable so that it may be applied to faucets of various styles. Any of the various hose and spray attachments on the market may be used for the universal fitting.

Attached to the manifold (2) are the apertured horizontal spray tubes (5) secured to and around the inside near the top of the bath tub (4) preferably by means of the suction cups (6) which are so common in use for securing devices, shelves, etc. to smooth surfaces that their construction and operation need not be further described than to state that by firmly pressing each suction cup to the tub, the hose to which the cup is secured will adhere by the partial vacuum obtained by expelling the air from the cup when it is forced against the tub.

The suction cups may vary in number, shape and size to suit the size of tub as well as the size of the spray tubes and the service and pressure of water desired.

The suction cups may be formed integral or, as shown in Figure 3 of the drawings, may be attached to the spray tubes (5) affording a means of directing the flow of the jets of water from the nozzles (7) which are preferably set at an angle downward from horizontal to prevent the water from being directed over the upper edge of the bath tub.

Secured to the manifold (2) I have provided a riser (8) in which is located a valve (9) to shut off, when desired, the water to the head spray nozzles (10). The riser (8) is preferably provided with a wall bracket and clamp (11) permitting the riser to be removed by unscrewing the wing clamp nut (12) which permits the easy removal of my device when desired.

Above the wall bracket (11) I have provided the swing joint (13) and telescoping tubular arm (14) which is provided with the water tight stuffing boxes (15) thereby permitting the arm to be extended or shortened as desired to bring the head spray nozzles (10) in position over the head of the bather when sitting in the tub and to also permit the head spray and telescoping arm (14) to be swung out of operating position against the wall.

Due to the relatively low position of the head spray as it is used when the bather is sitting in the tub and due to the downward angle of the nozzles (7) the use of a spray curtain is not necessary to prevent water from spraying the floor.

In Figure 7, however, I have shown a modification in which the riser may be lengthened making it sufficiently high to spray the head when the bather is standing. This is accomplished by means of telescoping the riser in much the same manner as the arm (14) hereinbefore described. The stuffing box (16), however, not only permits the inner riser tube (17) to be raised but also to swing permitting the elimination of the swing joint (13).

The spray tube (5) may be formed in short lengths or sections thus better adjusting its use

to bath tubs of varying sizes and also affording a means of inserting special spray fittings such as the back and side spray shown in Figures 6 and 8. When the spray tube (5) is made in sections it also is thus better suited to store or pack in shipping in a small container.

The manifold (2) may be provided with valves or faucets (18) for shutting off the water from the spray tubes and side or back spray in addition to the valve (9) for the head spray.

I do not wish to be limited to the exact details of construction herein described and shown in the drawings as it is obvious that these may be modified to suit varying applications and uses of my device and I may wish to depart therefrom within the scope of the appended claims which succinctly set forth my invention.

I claim:—

1. In a bath shower, a manifold secured to the faucet of the bath tub, spray tubes secured to said manifold and secured to the inner surface of the bath tub having nozzles adapted to direct jets of water inwardly and downwardly from the upper edge of the bath tub, and suction cups securing said spray tubes to and around the upper inner surface of said bath tub.

2. In a bath shower, a manifold secured to the faucet of the bath tub, spray tubes secured to said manifold and secured to the inner surface of the bath tub having nozzles adapted to direct jets of water inwardly and downwardly from the upper edge of the bath tub, and suction cups securing said spray tubes to and around the upper inner surface of said bath tub and a spring secured to each of said vacuum cups engaging said spray tubes to permit an adjustment between the spray tubes and vacuum cups.

3. In a bath shower, a manifold secured to the faucet of the bath tub, spray tubes secured to said manifold and secured to the inner surface of the bath tub having nozzles adapted to direct jets of water inwardly and downwardly from the upper edge of the bath tub, and suction cups securing said spray tubes to and around the upper inner surface of said bath tub and means secured to said vacuum cups to detachably and adjustably secure said spray tubes thereto.

4. In a bath tub shower, spray tubes adapted to direct a spray of water within the confines of said bath tub, and vacuum cups adapted to secure said spray tubes to said bath tub.

5. In a bath tub shower, spray tubes adapted to direct a spray of water within the confines of said bath tub, and vacuum cups adapted to detachably and adjustably secure said spray tubes to said bath tub.

6. In a bath tub shower, spray tubes adapted to direct a spray of water within the confines of said bath tub, and vacuum cups adapted to adjustably secure said spray tubes to said bath tub and permit the removal of said spray tubes independent of the removal of said vacuum cups.

7. In a bath shower, a manifold secured to the faucet of the bath tub, spray tubes secured to said manifold and secured to the inner surface of the bath tub having nozzles adapted to direct jets of water inwardly and downwardly from the upper edge of the bath tub, suction cups securing said spray tubes to and around the upper inner surface of said bath tub, and springs attached to said vacuum cups detachably securing said spray tubes thereto permitting said spray tubes to revolve therein whereby the direction of said nozzles may be adjusted at an angle from horizontal.

CHARLES H. HAGOPIAN.