J. W. McAULIFFE.

BATH TUB.

APPLICATION FILED AUG. 10, 1917.

1,293,829.

Patented Feb. 11, 1919.

2 SHEETS—SHEET 1.

Fig. 1

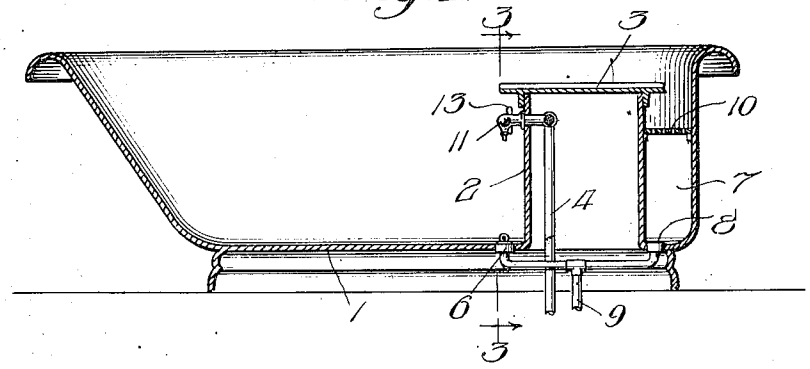


Fig. 2.

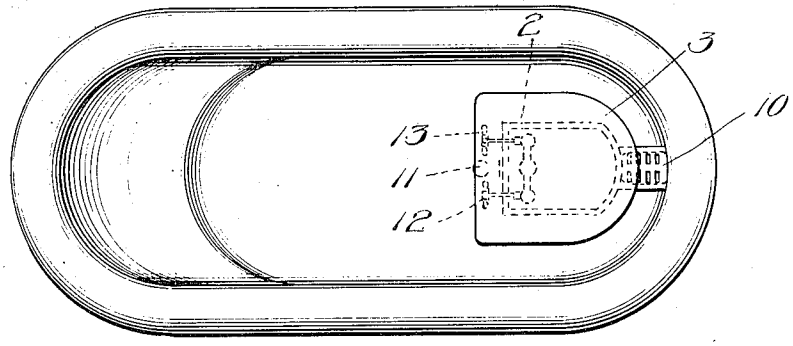
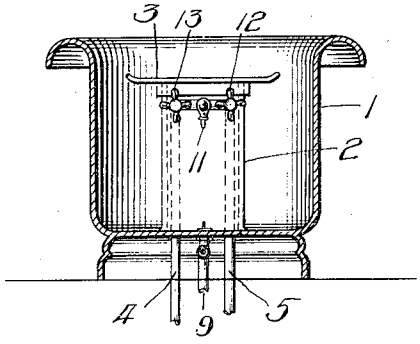


Fig. 3.



Witness:

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2 SHEETS—SHEET 2.

Fig. 4.

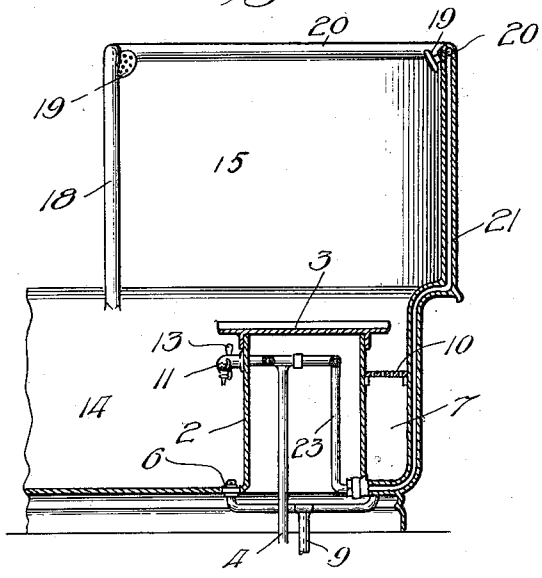


Fig. 6.

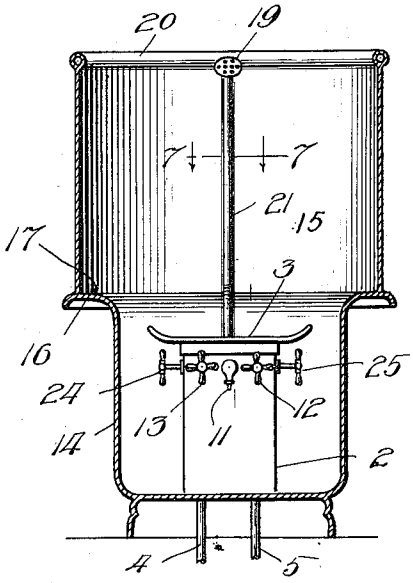


Fig. 5.

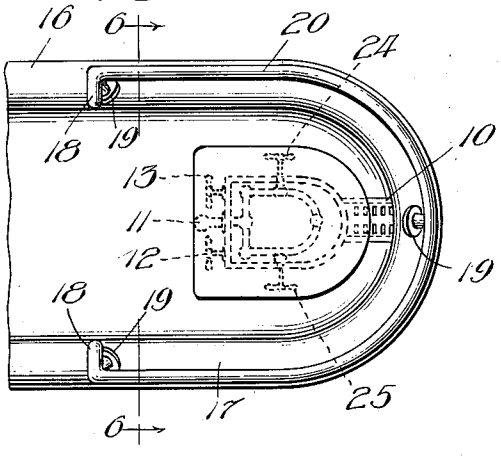


Fig. 7.

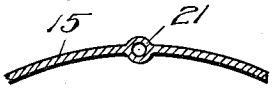
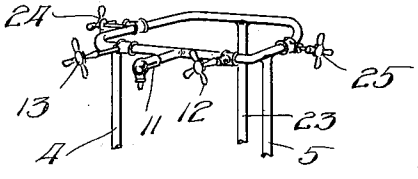


Fig. 8.



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UNITED STATES PATENT OFFICE.

JOHN W. McAULIFFE, OF NEW ROCHELLE, NEW YORK.

BATH-TUB.

1,293,829. Specification of Letters Patent. Patented Feb. 11, 1919.

Application filed August 10, 1917. Serial No. 185,421.

To all whom it may concern:

Be it known that I, JOHN W. McAULIFFE, a citizen of the United States, residing at New Rochelle, county of Westchester, State of New York, have invented a certain new and useful Improvement in Bath-Tubs, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention has for one of its objects to produce a neat and attractive bath tub the fittings of which will be concealed without requiring them to be placed in the wall of the room in which the tub is placed as is now commonly done in order to conceal the fittings.

A further object of my invention is to produce a novel, attractive bath tub embodying a member which will serve both as a seat for a bather and also as a chamber for housing and concealing the fittings.

A further object of the present invention is to produce a novel and attractive bath tub having permanently built into the same a seat for a bather without decreasing the effective length of the tub.

A further object of the present invention is to produce a bath tub having therein a seat-supporting member rising from the bottom and serving as a convenient seat for a bather without decreasing the efficient length of the tub and at the same time serving to house and conceal the fittings.

A further object of the present invention is to produce a simple and novel bath tub in which a shower bath may be taken without employing the usual protective curtain or the like.

A further object of the present invention is to produce a novel and attractive bath tub in which provision shall be made for seating a bather without decreasing the effective length of the tub, in which a shower bath may be taken without the employment of curtains or the like, and in which the fittings will be effectively concealed.

The various features of novelty whereby my invention is characterized will hereinafter be pointed out with particularity in the claims; but, for a full understanding of my invention and of its objects and advantages, reference may be had to the following detailed description taken in connection with the accompanying drawings, wherein:

Figure 1 is a longitudinal vertical central section through a bath tub arranged in accordance with a preferred form of my invention, the shower device being omitted;

Fig. 2 is a top plan view of the tub shown in Fig. 1;

Fig. 3 is a section taken approximately on line 3—3 of Fig. 1;

Fig. 4 is a central vertical longitudinal section through one end of a tub embodying all of the features of my invention, including the shower arrangement;

Fig. 5 is a top plan view of the parts shown in Fig. 4;

Fig. 6 is a section taken approximately on line 6—6 of Fig. 5;

Fig. 7 is a section taken approximately on line 7—7 of Fig. 6; and

Fig. 8 is a diagram of the piping employed in the tub shown in Figs. 4 to 7.

Referring first to Figs. 1 to 3 of the drawings, 1 represents a bath tub of any usual or suitable construction. At one end of the tub is a post or pedestal, 2, rising from the bottom thereof and of such a width that the feet of a bather lying in the tub may extend between it and the sides of the tub; the post or pedestal being shown disposed at the longitudinal center of the tub. In other words, the post or pedestal does not cut down the effective length of the tub. At the upper end of the post or pedestal is a seat, 3, on which a bather may sit.

The member 2 is made to serve not only as a support for a seat but also as a housing or casing for inclosing and concealing the supply and waste pipes so that no attachments or parts need be exposed except the mere supply valve handles. To this end the post or pedestal is made hollow and open at the bottom so that hot and cold water pipes, 4 and 5, respectively, may extend through

the floor of the bath room upwardly into the post or pedestal. The seat is also preferably made removable so that upon removal of the same access may be had to the interior of the post or pedestal through the upper end thereof.

The tub is provided with a suitable drain, 6, and with an overflow device of any suitable kind. In the arrangement shown, there is a narrow compartment or chamber, 7, formed between the end wall of the tub and the adjacent wall of the post or pedestal; this chamber having inlet openings at a considerable height to permit the entry of water when the tub reaches the overflow level, and having also a drain, 8, which, with the drain 6, is connected to a waste pipe, 9. The chamber 7 is preferably provided with a removable perforated cover, 10, which permits access to be had to the interior of the chamber.

When the parts are assembled the pipes are entirely concealed and the exposed parts consist simply of the delivery outlet, 11, which may be in the form of a nozzle or a simple opening in the wall of the post or pedestal, together with the valves or valve handles, 12 and 13, which conveniently extend through one of the walls of the post or pedestal just below the seat. The result is a tub of full length which embodies within it a permanent seat of any desired size, and complete concealment of the pipes without employing a specially constructed wall in the bath room for inclosing the pipes.

In Figs. 4 to 8 inclusive I have shown an elaboration of the structure heretofore described, consisting in the addition of a permanent wall or shield formed as part of the tub and taking the place of the usual waterproof curtain employed for shower baths. Referring to these figures, 14 is a tub which may be in all respects like the one heretofore described except that at the seat end there is arranged an upwardly-projecting wall, 15, rising upwardly from one of the end walls and the adjacent portions of the side walls of the tub; the wall 15 being preferably made high enough to reach to the top of the head of a person of ordinary height seated on the seat 3, and extending forwardly far enough to prevent the water from suitable sprays distributed along the wall, from splashing out of tub either before or after coming in contact with the bather. In the arrangement shown, the tub is one provided at the upper edge with an outwardly extending roll flange, 16, and, in order to provide as much room as possible for the arms of the bather when sitting on the seat, I prefer to have the wall 15 rise from the outer edge of the flange 16 so that the distance between the two side portions of the wall 15 is greater than the width of the body portion of the tub, and a continuous ledge, 17, is formed at the juncture of the wall 15 with the walls of the tub. The ends of the wall 15 are preferably extended inwardly across the flanges 16 toward each other, as indicated at 18.

Near the top of the wall 15 there are arranged a series of spraying heads, 19; there being preferably one at each end of the wall and one at the middle; those at the end being so placed as to direct the sprays therefrom into the space inclosed by the wall 15, while the one at the middle is intended to throw a spray down the longitudinal center of the tub.

The sprays may be supplied with water in any suitable way. In the arrangement shown, the wall 15 is provided along the upper edge with a bead, 20, which is cored out so that it forms in effect a conduit. At any suitable point along the wall is formed a rib or bead-like portion, 21, which extends down the wall 15 and down along the end wall and along the bottom wall of the tub to the post or pedestal 2 where a supply pipe, 23, arranged within the post or pedestal, is connected to it. It will be seen that when water under pressure is allowed to enter the pipe 23 it passes up through the conduit in the part 21 and along the conduit 20 to the several sprays. The pipe 23 may be supplied with hot and cold water from the pipes 4 and 5, preferably through valves independent of the valves 11 and 12. Thus, in the arrangement shown in Fig. 8, the pipe 23 is connected with both the hot and cold water pipes 4 and 5, valves, 24 and 25, being provided to control the flow of the water to the pipe 23. All of this piping of course lies within the hollow post or pedestal, only handles of the valves 24 and 25 projecting outwardly so as to be within easy reach of a bather sitting on the seat in the tub.

It will thus be seen that the added improvements shown in Figs. 4 to 8 produce a tub with concealed fittings which is not only completely self contained and which has not merely a seat for a bather, but which is a complete self contained shower bath tub in which a shower bath may be taken without the annoyance incident to ordinary shower bath arrangements.

While I have illustrated and described with particularity only a single preferred form of my invention, I do not desire to be limited to the exact structural details thus illustrated and described; but intend to cover all forms and arrangements which come within the terms employed in the definitions of my invention constituting the appended claims.

I claim:

1. A bath tub having formed in one end as a part thereof an upwardly projecting post provided at the top with a seat, the

post being spaced apart from at least one side of the tub to provide room for the feet of a bather lying in the tub.

2. A bath tub having formed in one end as a part thereof an upwardly projecting post provided at the top with a seat, said post being spaced apart from the two sides of the tub to permit the feet of a bather lying in the tub to extend past the post.

3. A bath tub having in one end thereof an upwardly projecting hollow post provided with a seat at the top, and supply pipes extending upwardly into said post.

4. A bath tub having in one end thereof an upwardly projecting hollow post provided with a seat at the top, an outlet nozzle and controlling valves supported by said post near the top thereof, and supply pipes extending upwardly through the post to said nozzle and said valves.

5. A bath tub having in one end an upwardly projecting hollow post provided with a seat at the top, there being a discharge outlet into the tub in the upper part of the post, supply pipes extending upwardly through the post to said outlet, and a plurality of controlling valves for said supply pipes having portions extending outwardly to the exterior of said post.

6. A bath tub having in one end an upwardly projecting hollow post open at the top, means for delivering water to the tub including pipes lying within the post, and a detachable cover arranged on top of the post and forming a seat for a bather.

7. A bath tub having in one end thereof an upwardly projecting hollow post considerably narrower than the width of the tub so as to permit the feet of a bather lying in the tub to extend past the same, means for delivering water into the tub including pipes arranged within the interior of said post, and a detachable cover for said post in the form of a seat for a bather.

8. A bath tub having the bottom at one end thereof merged into a tubular upwardly projecting post open at the bottom and provided with a seat for a bather at the top, the post being narrower than the width of the tub so as to leave room beside the same for the feet of a bather lying in the tub.

9. A bath tub having the bottom near one end thereof merged into a hollow post open at the top and at the bottom so as to provide in the interior thereof a chamber for containing the plumbing fittings, and a detachable seat for a bather closing the top of the post.

10. A bath tub having formed in one end as a part thereof an upwardly projecting post provided at the top with a seat, and an upwardly projecting wall about the rim of the tub along the sides and back of the seat.

11. A bath tub having at the rim an outwardly extending flange, a wall projecting upwardly from the outer edge of said flange across one end and along the adjacent ends of the two sides of the tub, and a fixed raised seat in that portion of the tub partially inclosed by said wall.

12. A bath tub having at the rim an outwardly extending flange, a wall projecting upwardly from the outer edge of said flange across one end and along the adjacent ends of the two sides of the tub, the ends of said wall being directed inwardly toward each other for a distance approximately equal to the width of the flange on the tub.

13. A bath tub having the bottom at one end thereof merged into a hollow post open at the top and at the bottom so as to provide in the interior thereof a chamber for housing the plumbing fittings, a removable seat covering the top of the post, and the side and end walls of that portion of the tub in which the seat is located being extended upwardly to form a shield along the sides and across the back of a bather sitting on said seat.

14. A bath tub having the bottom at one end thereof merged into a hollow post open at the top and at the bottom so as to provide in the interior thereof a chamber for housing the plumbing fittings, a removable seat covering the top of the post, and the side and end walls of that portion of the tub in which the seat is located being extended upwardly to form a shield along the sides and across the back of a bather sitting on said seat, said post being narrower than the width of the tub to provide room beside the same for the reception of the feet of a bather lying in the tub.

15. A bath tub having fixed in one end thereof a raised seat, the side and end walls of that portion of the tub in which the seat is located being extended upwardly to form a shield along the sides and across the back of a bather sitting on said seat, discharge outlets for water in said extended walls, and there being supply conduits arranged within the interior of said walls connected at one end to said outlets and at the other end to a source of water supply.

16. A bath tub having in one end thereof an upwardly projecting hollow post provided at the top with a detachable cover, and supply pipes extending upwardly into said post.

17. A bath tub having in one end thereof an upwardly projecting hollow post provided at the top with a detachable cover, said post being spaced apart from at least one side of the tub so as to permit the feet of a bather lying in the tub to extend past the post, and supply pipes extending upwardly into said post.

18. A bath tub having in one end thereof

an upwardly projecting hollow post including a wall closing the top of the post, supply pipes extending upwardly into said post, one of the walls of the post being removable to give access to the pipes in the interior of the post.

19. A bath tub having the bottom thereof at one end merged into a hollow upwardly projecting member shaped at the top to form a seat for a bather, and supply pipes concealed within said member.

In testimony whereof I sign this specification.

JOHN W. McAULIFFE.