T. J. SWIFT.

BATHTUB.

APPLICATION FILED MAR. 14, 1921.

1,426,519.

Patented Aug. 22, 1922.

2 SHEETS—SHEET 1.

Fig. 1.

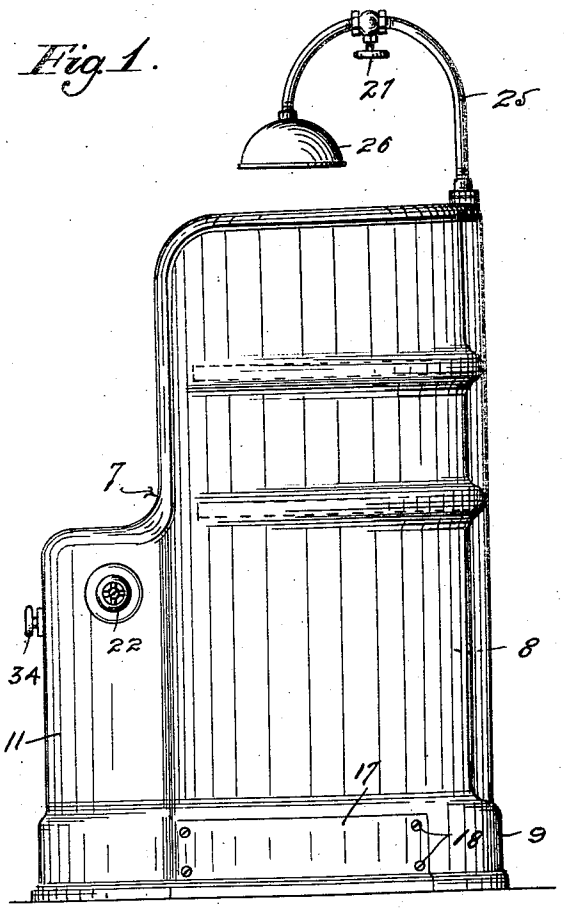


Fig. 2.

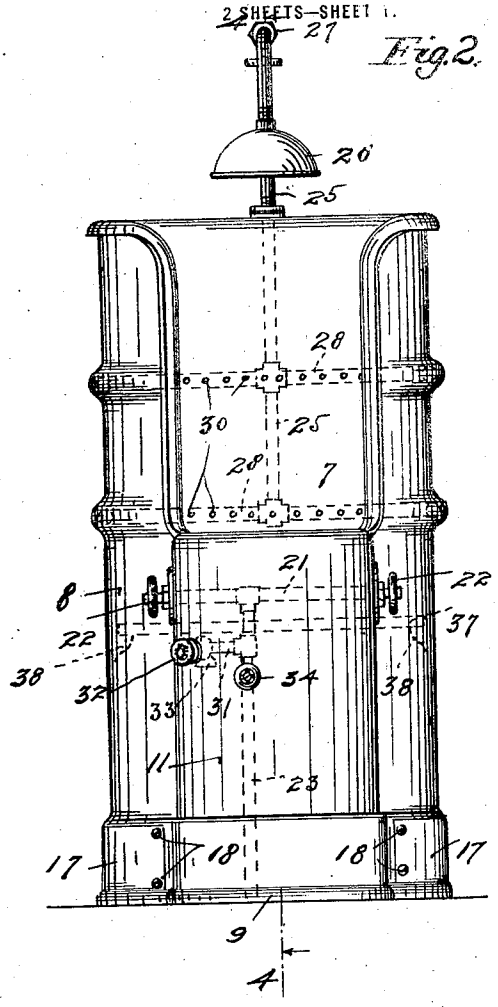
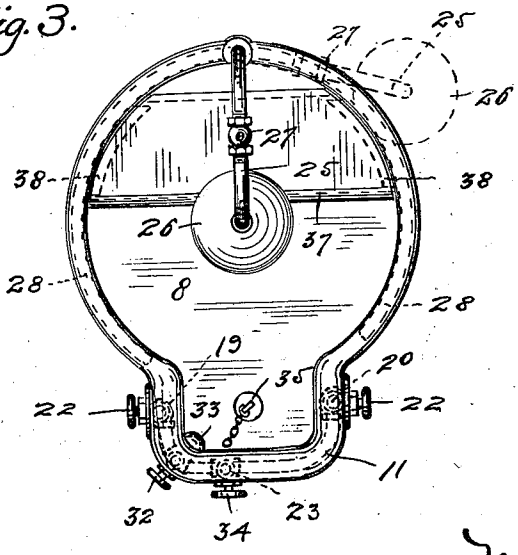


Fig. 3.



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2 SHEETS—SHEET 2.

Fig. 4.

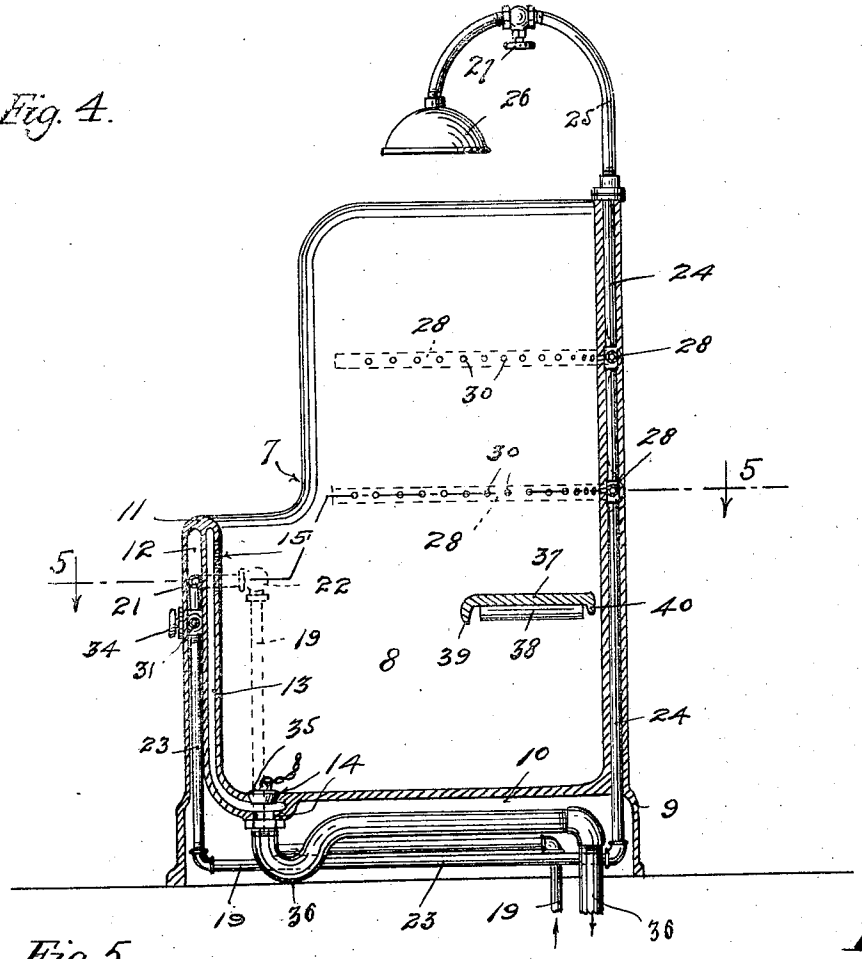
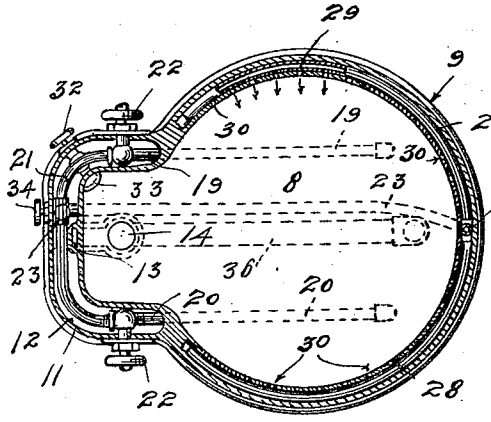
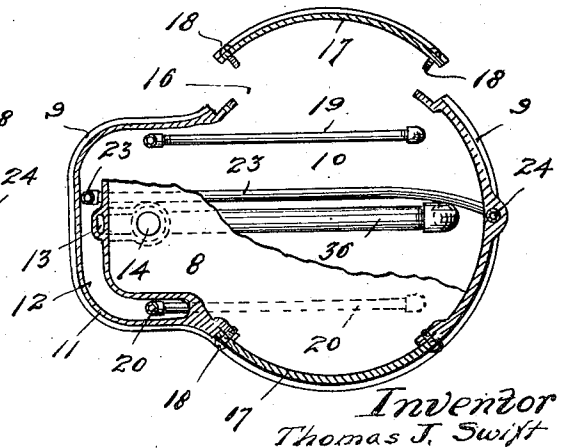


Fig. 5

Fig. 6.





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UNITED STATES PATENT OFFICE.

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BATHTUB.

1,426,519. Specification of Letters Patent. Patented Aug. 22, 1922.

Application filed March 14, 1921. Serial No. 452,272.

To all whom it may concern:

Be it known that I, THOMAS J. SWIFT, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Bathtubs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in bath tubs, and has for its object to provide such a tub that has all of the features of an ordinary bath tub, a shower bath, a foot bath and a sitz bath.

To the above end, the invention consists of the novel devices and combinations of devices hereinafter described and defined in the claim.

In the accompanying drawings, which illustrate the invention, like characters indicate like parts throughout the several views.

Referring to the drawings:

Fig. 1 is a side elevation of the improved bath tub;

Fig. 2 is a front elevation of the same;

Fig. 3 is a plan view with some parts shown in different positions, by means of broken lines;

Fig. 4 is a view principally in central vertical section taken on the line 4—4 of Fig. 2;

Fig. 5 is a horizontal section taken on the line 5—5 of Fig. 4; and

Fig. 6 is a view in horizontal section taken on the line 6—6 of Fig. 4, with some parts broken away to expose underlying parts and certain other parts being displaced.

The improved bath tub, as shown, is a monolithic structure and may be porcelain, enameled cast iron, or other suitable material. The general shape of the bath tub is cylindrical and has an open top with a side opening extending part way down from said top to afford an entrance passageway 7, below which is a basin 8. At its lower end, the bath tub is slightly expanded and provided with a depending supporting flange 9 affording therewithin a hollow base 10. The basin 8, in front of the entrance passageway 7, has a radial extension 11, which increases the width of the bath tub from the front to the back thereof. The base flange 9 also follows the general contour of the extension 11. Said extension 11 is provided with double walls spaced to afford therebetween a compartment 12, which opens into the base 10 for water supply pipes and connections, as will presently appear.

A vertically disposed conduit 13 is formed in the inner wall of the extension 11 and its lower end is curved downwardly and rearwardly into the bottom of the basin 8. Upper and lower aligned drain passageways 14, in the bottom of the basin 8, tap the drain conduit 13 at its lower horizontal portion. Opening into the upper end of the drain conduit 13, from the inside of the basin 8, is a plurality of overflow openings 15. In each side of the flange 9 is a hand hole 16 normally closed by a section 17 of said flange, and which section is held in place by screws 18.

Extending into the base 10, at the back thereof, are hot and cold water supply pipes 19 and 20, respectively. These pipes 19 and 20 extend horizontally forward in the base 10 to the compartment 13, and thence vertically upward in said compartment and are connected by a pipe 21. Interposed in each pipe 19 and 20, near its upper end, is a cut-off valve 22 having its operating handle on the outside of the extension 11. Leading from the pipe 21 is a depending pipe 23, which also extends horizontally through the base 10 to the rear thereof and is connected to the lower end of a stand pipe 24 imbedded in the back wall of the bath tub and extended through the top thereof.

Swiveled on the upper end of the stand pipe 24 is a goose neck 25, having on its free end a shower head 26, which may be positioned axially over the bath tub or swung to one side thereof, as indicated by broken lines in Fig. 3. A cut-off valve 27 is interposed in the goose neck 25. Also imbedded in the walls of the bath tub are upper and lower pairs of horizontally extended body-spraying arms 28 tapped into the stand pipe 24 and having a multiplicity of circumferentially spaced perforations 29, which register with perforations 30 in the inner wall of the bath tub.

Interposed in the pipe 23, just below the pipe 21, is a branch pipe 31 having a cut-off valve 32, which controls a discharge opening 33 at the bottom of the basin 8 and is provided for filling said tub. Also interposed in the pipe 23, just below the branch pipe 31, is a cut-off valve 34, the handle of

which, together with the handle of the valve 32, is located on the outer wall of the extension 11.

The upper drain passageway 14 may be closed, at will, by a stopper 35, and a trap-equipped drain pipe 36 leads from the lower drain passageway 14, which, together with said drain conduit, is constantly open. A removable seat 37 is supported on lugs 38 formed with the inner walls of the body 7 at the back thereof, and which seat has, at its front, a rolled edge 39, and at its back, a depending flange 40 arranged to engage said lugs to hold the seat from sliding forward thereon.

It may be assumed that all of the valves of the bath tub are closed and, by opening the two valves 21, a supply of hot and cold water may be had and the temperature thereof may be controlled by operating the valves. If it is desired to fill the basin 7 with water, the valve 32 may be opened, or if a body spray is desired, the valve 34 may be opened, or if a shower is desired, the valve 27 may be opened. By opening both of the valves 32 and 34, a body spray and shower may be had. When either or both the body spray or shower are in use, the stopper 35 may be removed so that the water will be immediately drained from the basin 8.

The above described bath tub, as will be noted, occupies very little space, is easy to keep clean, for the reason that there are no sharp corners, and the rough plumbing is all concealed and may be very easily inspected or worked on through the hand holes.

What I claim is.

A self-contained, upright, cylindrical, monolithic bath tub having a radial extension of less width than the diameter of said tub and terminating below the top thereof to provide an entrance, said tub having a hollow base and said radial extension comprising spaced front and rear walls providing a compartment communicating with said hollow base for the installation of water supply fittings, whereby the controls for said fittings may be positioned on said outer wall of said radial extension and adapted for operation outside of said tub, substantially as described.

In testimony whereof I affix my signature.

THOMAS J. SWIFT.