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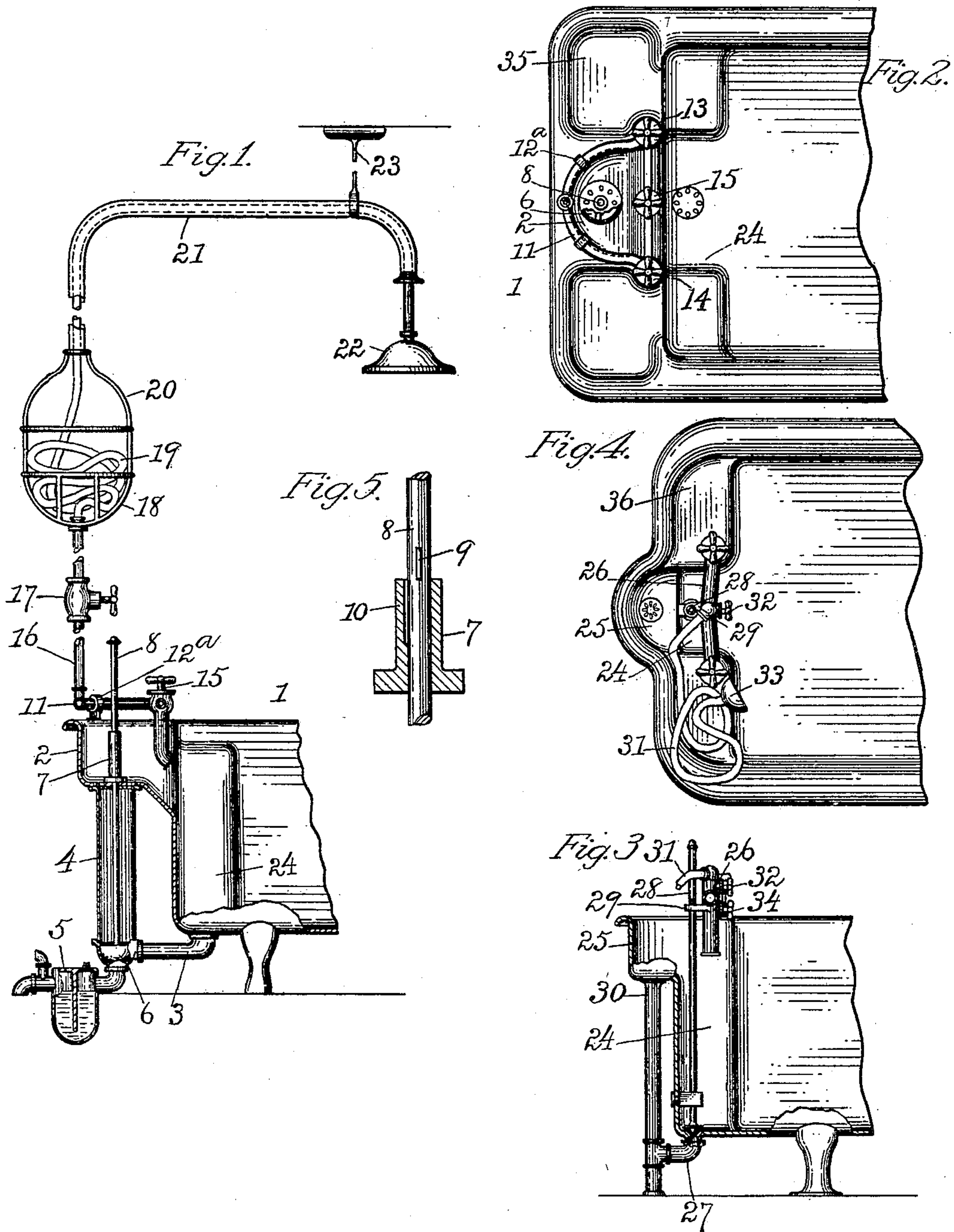
PATENTED JUNE 26, 1906.

W. VANDERMAN.

BATH TUB.

APPLICATION FILED DEC. 2, 1904.

2 SHEETS—SHEET 1.



Witnesses.

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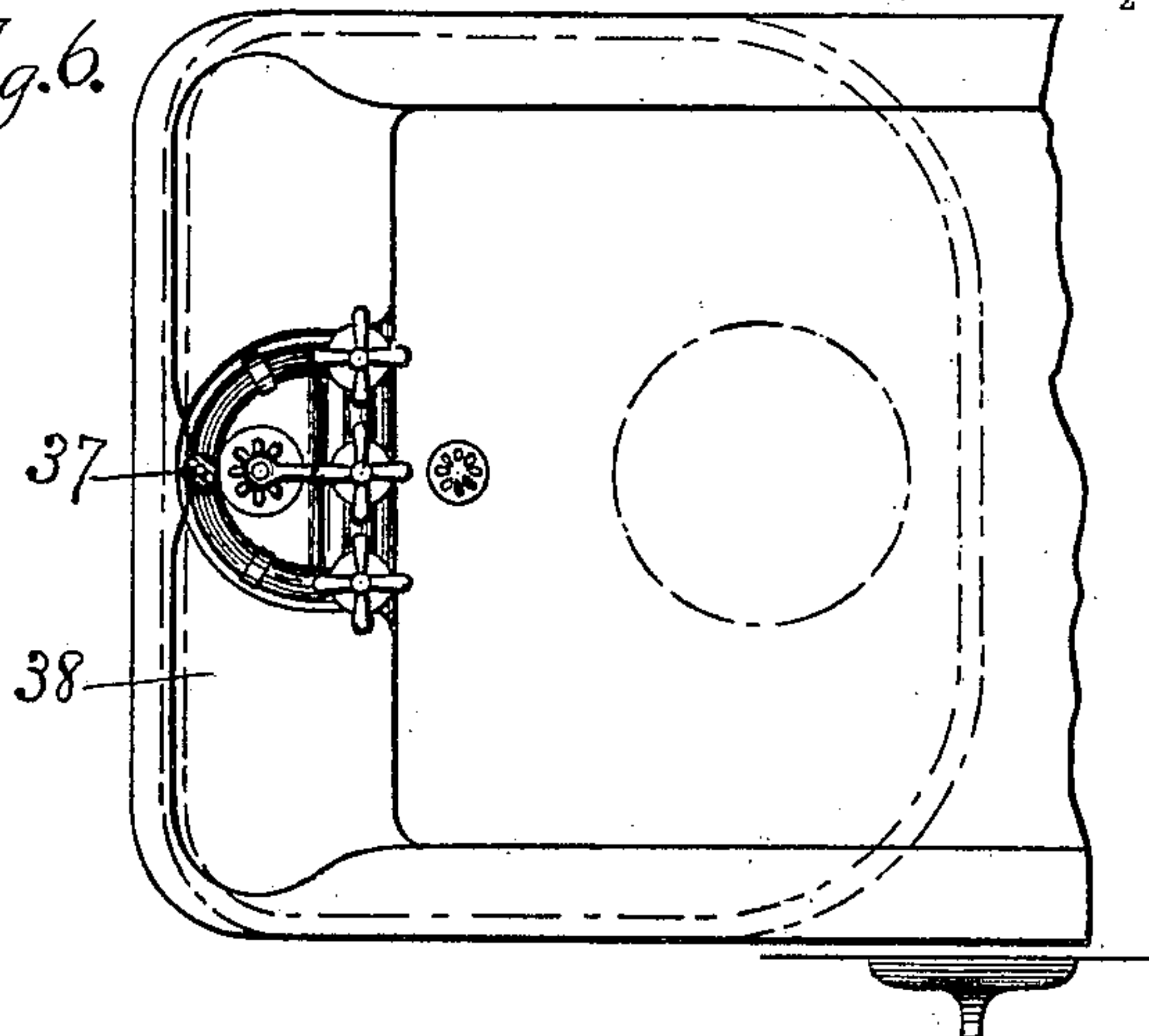
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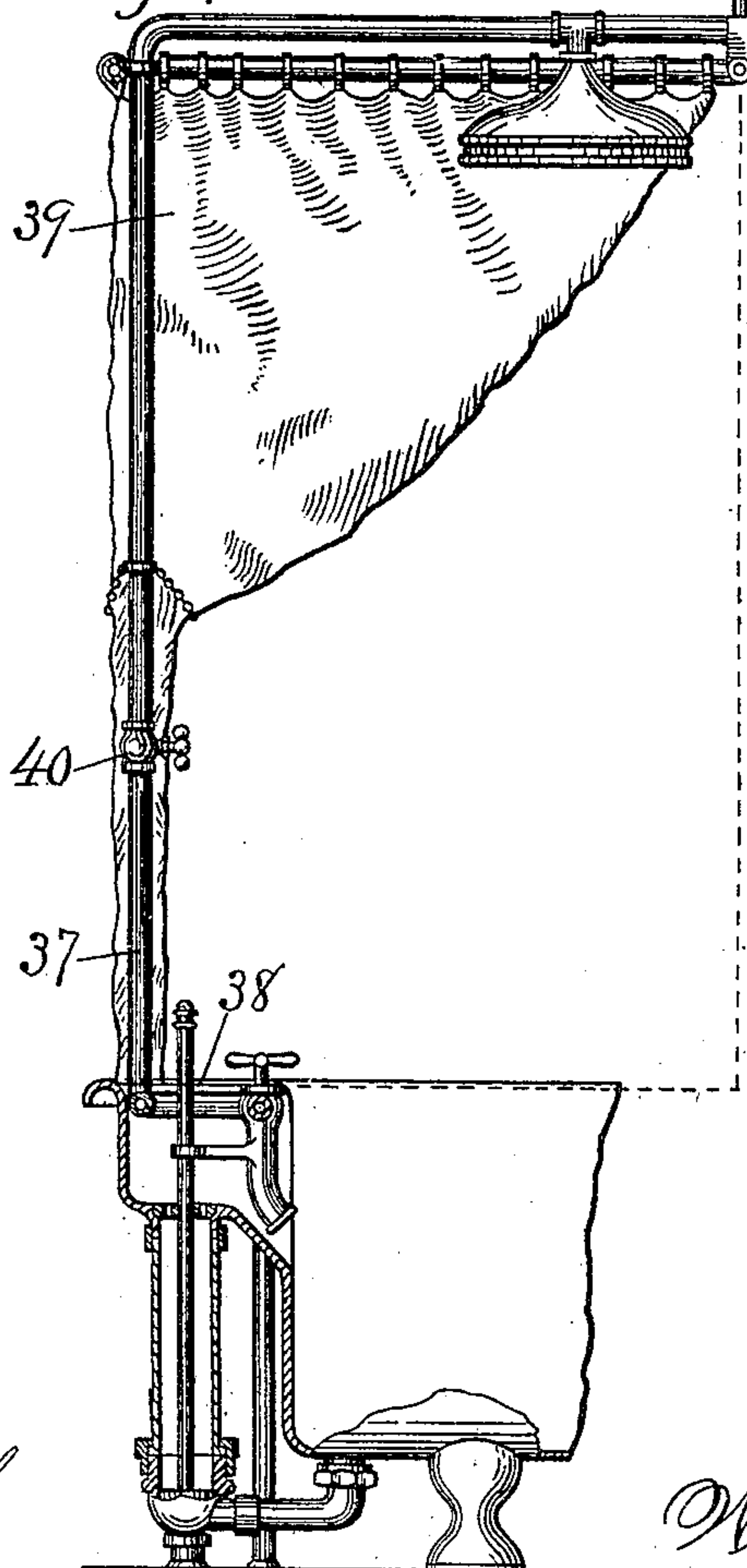
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2 SHEETS—SHEET 2.

*Fig. 6.*



*Fig. 7.*



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# UNITED STATES PATENT OFFICE.

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## BATH-TUB.

No. 824,454.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed December 2, 1904. Serial No. 235,174.

*To all whom it may concern:*

Be it known that I, WILLIAM VANDERMAN, a citizen of the United States, and a resident of Willimantic, in the county of Windham and State of Connecticut, have invented certain new and useful Improvements in Bath-Tubs, of which the following is a specification.

My invention relates more especially to that class of tubs constructed of enameled iron, in which the means for admitting water thereto are located appurtenant to or secured to the tub.

The object is to provide a device of this class in which the several pipes, faucets, &c., appurtenant to the tub shall be located in the most accessible position to the user of the bath, but at the same time shall not in any manner obstruct the space within the tub; and a further object is to provide a device of this class in which the pipe connections, faucets, &c., shall be of the simplest character as to construction and manner of connection to the tub; and a further object is to provide a device of this class in which all drip from the different parts of the device shall be conducted into the tub, and thus avoid liability to damage by reason of such drip; and a further object of the device is to provide an extremely sanitary construction and one in which obstructions in the pipes or repairs thereto may be readily made without disarrangement of the entire apparatus. One form of device in the use of which these objects may be attained is illustrated in the accompanying drawings, in which—

Figure 1 is a detail view in section of one end of a bath-tub, showing my improvements connected thereto. Fig. 2 is a top plan view of the same with the shower removed. Fig. 3 is a view similar to Fig. 1, but showing a modified form of the device. Fig. 4 is a top plan view of the device shown in Fig. 3. Fig. 5 is a detail view showing the method of locking the waste-valve rod. Fig. 6 is a top or plan view of a form of tub supplied with a shower. Fig. 7 is a view in section through one end of the tub shown in Fig. 6.

My invention as shown and described herein is applied to the same class of devices as that embodied in my copending application, Serial No. 175,604, filed October 3, 1903, on a bath-tub, the construction shown and described herein being an improvement on the device illustrated and described in said copending application. While the method of

connecting the pipes shown in said prior application has been found to possess many advantages and the location and arrangement of the pipes, faucets, &c., in said prior device are extremely convenient, yet for certain purposes in simplicity of construction and connection it has been found that the arrangement herein shown and described possesses many advantages over those of the device of my copending application, and the location and arrangement of the pipes, faucets, &c., herein shown and described has been found to possess advantages as to convenience over those of the copending application.

In the accompanying drawings, referring to Figs. 1 and 2, the numeral 1 denotes a tub, preferably constructed of iron and having a coating of enamel or the like. The main part or body of the tub is constructed of suitable size and preferably at one end is recessed, as at 2. This recessed portion is located at the top of the tub, preferably extending from the upper portion of one end thereof. A waste-pipe 3 extends from the bottom of the tub in the usual manner, and an overflow-pipe 4 extends from the bottom of the recessed portion of the tub, joining with the waste-pipe 3, as shown in Fig. 1 of the drawings. The waste from this point is led to a trap 5, of any suitable construction, and the waste and overflow pipes are removably connected with the tub and with each other in any well-known and convenient manner. A valve is located in the overflow-pipe 4 in such position as to control the outlet from the tub through the waste-pipe 3. This valve has openings through its top to permit the flow of water therethrough from the overflow-pipe 4, to which water is freely admitted by openings in the bottom of the recessed portion 2 of the tub. In this construction the full capacity of the overflow is thus utilized the instant the water gains access thereto, and the entire overflow is thus flushed by the water each time any water passes therethrough, thus providing an extremely cleanly and sanitary device. A sleeve 7 is located in the recessed portion 2, and a valve-rod 8 passes downward through the sleeve and the overflow-pipe 4 and is connected with the valve 6. This rod has a lug 9, adapted to enter a slot 10 in the sleeve 7 and also to engage with the upper edge of the sleeve to lock the valve in its open position. A shower-supply pipe 11 is secured, as by means of brackets 12<sup>a</sup>, to



the upper edge of the tub, this pipe being suitably connected with hot and cold water tub supplies in the usual manner, passing upward through the overhanging upper edge of the tub on opposite sides of the recessed portion 2, said shower supply-pipe being curved to conform to the shape of the recess 2. The tub-supply pipes are located, preferably, close to the outer wall of the end of the main part of the tub; and faucets 13 and 14 control the supply of hot and cold water. Extensions from each of these faucets meet at the center of the recess 2, at which point a faucet 15 may be located for controlling the commingled supply to the tub. A shower-delivery pipe 16 extends from the shower-supply pipe 11 upward and has a valve 17 for controlling the supply of water to the shower. On this pipe is a basket 18, suitably constructed to hold the flexible pipe 19 of the shower. A frame 20 is mounted on the basket, and to this frame a tubular support 21 for the flexible pipe 19 is secured, the latter extending through said support and having a shower 22 at its outer end. A bracket 23, secured to the ceiling, may be employed, if desired, as an additional means of maintaining the support 21.

It will be seen from the above description that the flexible tube 19 may be drawn through its support, accommodating the shower 22 for use in any desired position, and when not in use the tube 19 may be coiled within the basket and the shower suspended in an out-of-the-way location. The flexible tube 19 is secured to the end of the shower-delivery pipe 16, that also supports the basket 18.

In the form of device shown in Figs. 1, 2, 3, and 4 of the drawings I entirely remove all appliances from the main part of the interior of the tub by providing a recess 24, that extends from the central end portion of the tub to practically the full depth thereof, and locating the offset recessed portion or recess 25 to extend from the upper part thereof. This recessed portion is denoted by the numeral 25 in Figs. 3 and 4 of the drawings. In Figs. 3 and 4 the hot and cold water tub-supply pipes 26 extend across the recess 24 in a manner similar to that described with reference to the device of Fig. 2. The waste-pipe 27 extends from the bottom of the recess 24, as in Figs. 1 and 2, and a rod 28, connected with the waste-valve, extends upward through a support 29, secured to the hot and cold water tub-supply pipes 26. The overflow is through the bottom of the recess 25 and pipe 30, as hereinbefore described. It will be obvious that the arrangement of the shower-pipe curved about the upper edge and conforming to the shape of the recesses 24 and 25, as shown and described with reference to Figs. 1 and 2, and the arrangement of other devices shown and described in said figures may

be employed, if desired. In other words, the devices of Figs. 1 and 2 and of Figs. 3 and 4 may be interchanged to any desired extent. A flexible pipe 31 is connected with the hot and cold water tub-supply pipes, a faucet 32 controlling the flow to the flexible pipe that is supplied with a shower 33. In addition to the faucets for supplying the hot and cold water to the tub an additional faucet 34 is provided to control the commingled hot and cold water, as hereinabove described. In the above-described forms the edge of the tub is rolled, as shown, and depressions are located on opposite sides of the offset recessed portion, which depressions serve as trays for the reception of toilet articles, from which the drip is conducted directly into the tub. These depressions may be formed in the shape of pockets 35, as shown in Fig. 2, or may consist of a flat part 36, depressed below the edge of the tub, as shown in Fig. 4, or the two may be combined, as shown in Fig. 2.

In the form of device shown in Figs. 6 and 7 the tub is constructed much in the form hereinbefore described with respect to Fig. 1. The shower-delivery pipe 37 is located well within the edge of the tub, and the depressed portions 38 are so located that a curtain 39, as to its lower edge, will lie within the rim at the upper edge of the tub and within the depressed portions, so that the drip will not pass to the floor, but will drain into the depressed portions 38 and thence into the tube. A valve 40 is employed for controlling the flow of water to the shower, and the curtain may be supported in any suitable manner.

It will be seen from the above construction that the improved tub is readily adapted to receive the shower appliances in a manner to prevent any overflow or spatter of the water outside of the tub. All of the devices for admitting and controlling the flow of water to the tub and the toilet-receptacles are conveniently accessible from within the curtain, and when the latter is caught up and not in use it will be located in an out-of-the-way position at the back of the tub, the lower edge in such position that the water will drain into the recess. The curtain is also located in a manner to obtain the full benefits of a free circulation of air upon all sides for drying purposes.

The connections of the supply-pipes and the waste and overflow pipes are so intimately located with respect to the tub and underneath the overhanging upper edge thereof as to dispense with the location of the pipes outside of the boundary of the tub to obstruct the space within the room, and the location of the pipes and faucets within the tub is such as to provide an extreme degree of convenience as to accessibility to said parts. The full capacity of the tub is obtained for the user and is not obstructed in



any respect, and an extremely sightly structure is obtained.

While I have shown and described my improvement herein in connection with a bath-tub as an article in connection with which it finds ready adaptation, it will be understood that it may be equally applied to wash-bowls, wash-trays, or the like without departing from the main features of the invention.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A bath-tub having a shallow recess extending a short distance of the length of the upper part of one wall which is extended outwardly beyond the wall of the body of the tub to form said recess that opens upwardly and into the interior of the tub near the top, tub-supply pipes located without the boundary of the main portion of the interior of the tub but within the outer boundary of the entire tub, an overflow through the bottom of said recess, an overflow-pipe extending therefrom, a waste-outlet from said tub, a valve controlling said outlet, and a valve-rod extending from the valve through said overflow-pipe.

2. A bath-tub having a shallow recess extending a short distance along the length of the upper part of one wall of the tub, which is extended outwardly beyond the wall of the body of the tub to form said recess that opens upwardly and into the tub near the top, tub-supply pipes extending through an overhanging part of the tub and over and across said recess for supplying water to the tub, faucets for controlling said supply, an overflow through the bottom of said recess, an overflow-pipe extending therefrom, a waste-outlet from said tub, a valve located in the overflow-pipe and controlling said waste, and a valve-rod extending from the valve through the overflow-pipe.

3. A bath-tub having a shallow recess extending a short distance along the upper part of one wall of the tub which is extended outwardly beyond the wall of the body of the tub to form said recess that opens upwardly and into the interior of the tub near the upper part thereof, a second recess formed in said wall and below the first-mentioned recess and opening upwardly thereinto, tub-supply pipes located appurtenant to said recesses and delivering thereinto, an overflow through the bottom of said shallow recess, and an overflow-pipe extending therefrom.

4. A bath-tub having a shallow recess extending a short distance along the upper part of one wall thereof, that is extended outwardly beyond the wall of the body of the tub to form said recess that opens upwardly and into the tub near the upper part thereof, a second recess located in said wall below the first-mentioned recess and opening upwardly thereinto, a waste-outlet from the bottom of said last-mentioned recess, an overflow-open-

ing through the bottom of said shallow recess, an overflow-pipe extending therefrom, a valve located in the overflow-pipe to control the waste-outlet, and a valve-rod extending from the valve upwardly through the overflow-pipe.

5. A bath-tub having a shallow recess extending a short distance along the upper part of one wall of the tub that is extended outwardly beyond the wall of the tub to form said recess that opens upwardly and into the interior of the tub near the top of said wall, a second recess extending from the shallow recess downward and formed in said wall, a waste-outlet from the bottom of said recess, an overflow through the bottom of the shallow recess, an overflow-pipe extending therefrom, a valve located in the overflow-pipe to control the waste-outlet, a valve-rod extending from the valve through the overflow-pipe, and tub-supply pipes extending through an overhanging part of the tub at a side of said recess and projecting over and conducting thereinto.

6. A bath-tub having an overhanging portion extending from the upper part of one end thereof, with a rib extending about the edge of the tub and toward the interior forming trays at opposite sides of said overhanging part, a recess opening out of the tub between said trays and with its bottom located below said trays, a shower-delivery pipe supported in brackets on the upper edge of and extending and conforming to the shape of said recess, and brackets for supporting said pipe.

7. A bath-tub having a shallow recess extending a short distance along the upper part of one wall that is extended outwardly beyond the wall of the body of the tub to form said recess that opens upwardly and into the interior of the tub near the top, tub-supply pipes for conducting the water into said recess, a shower-delivery pipe extending about the edge and conforming to the shape of said recess, a stand-pipe mounted on the shower-delivery pipe, a basket secured to the upper end of the stand-pipe, and a flexible pipe connected to the stand-pipe within said basket.

8. A bath-tub having a shallow recess extending for a short distance along the upper part of one wall that is extended outwardly beyond the wall of the tub to form said recess that opens upwardly and into the interior of the tub near the top thereof, overflow-openings through the bottom of said recess, an overflow-pipe extending from the bottom of the recess, a valve located in the overflow-pipe, a sleeve mounted in the bottom of the recess and having a lengthwise groove, and a valve-stem projecting from the valve upward through said sleeve and having a spline to engage within the groove and rest on the upper edge of the sleeve.

9. A bath-tub having a recess extending



from the central upper portion of one end thereof, an overhanging part from the end of the tub located on each side of said recess, a rib extending about the upper edge of the overhanging parts and along said recess forming a tray on each of said overhanging parts located above the bottom of the recess, a shower-delivery pipe extending about the upper edge of the recess, a stand-pipe secured to the central back portion of said delivery-pipe, a shower connected with said stand-pipe, and means for supporting a curtain on said stand-pipe.

10. A bath-tub having a recess extending from the upper central portion of one end thereof, overhanging parts from one end of the tub located on opposite sides of said recess, a rib extending about the outer edge of said overhanging parts and of said recess forming trays within the overhanging parts above the bottom of the recess, a shower-delivery pipe extending about the upper edge of said recess within said rib, a stand-pipe extending from the central back portion of the delivery-pipe, a valve in the stand-pipe with its spindle projecting toward the tub, a ring for a curtain extending about the upper portion of the stand-pipe and behind the same, and a shower connected with the stand-pipe.

11. A bath-tub having a shallow recess extending a short distance along the upper part of one wall that is extended outwardly beyond the wall of the tub to form said recess that opens upwardly and into the interior of the tub near the top, the bottom of said recess being located substantially in a horizontal plane, an overflow-outlet from the bottom of the recess, a waste-outlet from the bottom of the tub, both of said outlets opening directly downward, and means for controlling the flow through the waste-outlet.

12. A bath-tub having a shallow recess extending a short distance along the upper part of one wall that is extended outwardly beyond the wall of the tub to form said recess that opens upwardly and into the interior of the tub near the upper part thereof, hot and cold water faucets located at each side of said recess, pipe connections with said faucets united at said recess and having a discharge into said recess and to a stand-pipe, and a stand-pipe communicating with said pipe connection.

13. A bath-tub having a recess in one wall thereof, hot and cold water faucets located on each side of said recess, conducting-pipes from said faucets extending across and united at said recess with the discharge thereinto, an overflow in the bottom of said recess, a second recess opening from the first, a waste-outlet in the bottom of the second recess, and a waste-valve admitting the overflow and controlling the outlet from the waste-outlet.

14. A bath-tub having a recess, faucets lo-

cated at each side of said recess, an overflow in the bottom of the recess, a pipe removably connected with the overflow and extending therefrom, a waste-outlet through the bottom of the tub, a pipe removably connected therewith and extended to join the pipe from the overflow, and means for closing the waste-outlet.

15. A bath-tub having a shallow recess extending a short distance along the upper part of one wall that is extended outwardly beyond the wall of the tub to form said recess that opens upward and to the interior of the tub near the upper part thereof, hot and cold water faucets located at each side of said recess, pipes extending from said faucets and united at the recess with a discharge thereinto, a stand-pipe connection extending therefrom, a valve for controlling the supply to the tub, and a valve for controlling the supply to the stand-pipe.

16. A bath-tub having a recess, faucets located at each side of said recess, supply-pipes extending from the faucets across and united at the recess with the discharge thereinto, conducting-pipes from said faucets extending around the edge of the recess and communicating with a stand-pipe, a valve for controlling the discharge into the recess, and a valve for controlling the discharge into the stand-pipe.

17. A bath-tub having a shallow recess extending a short distance along the upper part of one wall thereof that opens outwardly beyond the wall of the tub to form said recess that opens upwardly and into the interior of the tub near the upper part thereof, faucets located at each side of said recess, an overflow through the bottom of said recess, a waste-outlet through the bottom of the tub, an overflow-pipe extending from the overflow-opening, and a waste-pipe extending from the waste-outlet, said pipes being united, a valve-seat located at the point of connection of said pipes, a valve for said seat, and a valve-rod extending upward through the overflow-pipe.

18. A bath-tub having a short section of the upper part of one wall extending outwardly beyond the wall of the body of the tub so as to form a small shallow recess beyond the wall of the body of the tub, which recess opens its full extent upwardly and also opens its full extent into the tub, a waste-outlet through the bottom of the tub, an overflow through the bottom of said recess, an overflow-pipe leading from said overflow, a valve located in the overflow-pipe to control the waste-outlet, a valve-rod extending upward from said valve through the overflow-pipe and opening, and means for supplying water to the tub.

19. A bath-tub having a short section offset from the upper part of one wall extending outwardly beyond the wall of the body of the tub so as to form a small shallow recess be-



yond the wall of the body of the tub, which recess opens its full extent upwardly and also opens its full extent into the tub, a fitting located appurtenant to said recess, but without  
 5 the boundary of the inside of the tub, a conducting-pipe to deliver water from the fitting into the tub, an overflow-opening through the bottom of the recess, an overflow-pipe extending from said opening, a waste-outlet through  
 10 the bottom of the tub, a valve located in the overflow-pipe to control said waste-outlet, and a valve-rod extending upward from said valve through the overflow-pipe and opening.

20. A bath-tub having a short section of  
 15 the upper part of one wall extended outwardly beyond the wall of the body of the tub so as to form a small shallow recess beyond the wall of the body of the tub, which recess opens its full extent upwardly and also opens its full  
 20 extent into the tub, an overflow-opening through the bottom of the recess, an overflow-pipe extending from said opening, a waste-outlet from the bottom of the tub, a valve located in the overflow-pipe to control  
 25 said waste-outlet, a rod extending upward from said valve through the overflow-pipe and opening, a fitting located appurtenant to said recess for delivering water into the tub, a shower stand-pipe connected with said fitting,  
 30 and shower apparatus connected with said stand-pipe.

21. In a bath-tub, a recess offset from the upper edge of one end of the tub, a supply-fitting located appurtenant to said recess and  
 35 outside of the boundaries of the inside of the tub for delivering water to the latter, a waste-outlet through the bottom of the tub, an overflow-opening through the bottom of said recess, an overflow-pipe extending from said  
 40 opening, a valve located in the overflow-pipe to control the waste-outlet, a rod extending upward from said valve through the overflow-pipe and opening, a stand-pipe connected with the supply-fitting, and shower apparatus  
 45 connected with said stand-pipe.

22. A bath-tub having a shallow recess extending a short distance along the upper part of one wall that is extended outwardly beyond the wall of the tub to form said recess  
 50 that opens upwardly and into the interior of the tub near the top providing a main part and a recessed part to the tub, hot and cold water faucets located at each side of said recess, and pipe connections extending from  
 55 said faucets and united at the recess and having a discharge-outlet thereinto, all of said faucets and pipe connections being located entirely without the boundary of the main portion of the tub.

60 23. A bath-tub having a shallow recess extending a short distance along the upper part of one wall that is extended outwardly beyond the wall of the tub to form said recess that opens upwardly and into the interior of  
 65 the tub near the top, the bottom of said re-

cess being located substantially in a horizontal plane, an overflow-outlet from the bottom of the recess, a waste-outlet from the bottom of the tub, both of said outlets opening directly downward, and a stopper for the  
 70 waste-outlet.

24. A bath-tub having a short section of the upper part of one wall extended outwardly beyond the wall of the body of the tub so as to form a small shallow recess be-  
 75 yond the wall of the body of the tub which recess opens its full extent upwardly and also opens its full extent into the tub, a fitting to deliver water to said recess, cocks so arranged in the fitting and relatively to the re-  
 80 cess that the handles may be freely manipulated and the interior of the tub be unobstructed by the handles or the bibs, a waste-outlet through the bottom of the tub, and a stopper for controlling the waste-outlet, sub-  
 85 stantially as specified.

25. A bath-tub having a short section of the upper part of one wall extended outwardly beyond the wall of the body of the tub so as to form a small shallow recess be-  
 90 yond the wall of the body of the tub, which recess opens its full extent upwardly and also its full extent into the tub, an overflow-outlet through the bottom of the recess, a fitting to deliver water to said recess, cocks so ar-  
 95 ranged in the fitting and relatively to the recess that the handles may be freely manipulated and the interior of the tub be unobstructed by the handles or the bibs, a waste-outlet through the bottom of the tub, and a  
 100 stopper for controlling the waste-outlet, substantially as specified.

26. A bath-tub having a short section of the upper part of one wall extended outwardly beyond the wall of the body of the  
 105 tub so as to form a small shallow recess beyond the wall of the body of the tub, which recess opens its full extent upwardly and also opens its full extent into the tub, a fitting to deliver water to said recess, cocks so ar-  
 110 ranged in the fitting relatively to the recess that the handles may be freely manipulated and the interior of the tub be unobstructed by the handles or the bibs, a waste-outlet through the bottom of the tub, a stopper for  
 115 controlling the waste-outlet, and toilet-receptacles formed in the rim each side of the recess and adapted to drain into the tub, substantially as specified.

27. A bath-tub having a short section of  
 120 the upper part of one wall extended outwardly beyond the wall of the body of the tub so as to form a small shallow recess beyond the wall of the body of the tub, which recess opens its full extent upwardly and  
 125 opens its full extent into the tub, a fitting to deliver water to said recess, cocks so arranged in the fitting relatively to the recess that the handles may be freely manipulated and the interior of the tub be unobstructed  
 130



by the handles or the bibs, a shower connected with the fitting, a waste-outlet through the bottom of the tub, and a stopper for controlling the waste-outlet, substantially as specified.

28. A bath-tub having the upper part of a short section extended outwardly beyond the wall of the body of the tub so as to form a recess that opens upwardly also to the interior of the tub near the top, a fitting to deliver water to said recess, cocks in the fitting, an overflow-outlet in the bottom of the recess, a waste-opening through the bottom of the tub, a stopper for controlling the waste-outlet and a trap with which the waste and overflow communicate, substantially as specified.

29. A bath-tub having a short section of the upper part of one wall extended outwardly beyond the wall of the body of the

tub so as to form a small shallow recess beyond the wall of the body of the tub, which recess opens its full extent upwardly and also opens its full extent into the tub, the front portion of the bottom wall of said recess slanting downwardly to the wall of the tub, a fitting to deliver water to said recess, cocks so arranged in the fitting and relatively to the recess that the handles may be freely manipulated and the interior of the tub be unobstructed by the handles or the bibs, a waste-outlet through the bottom of the tub, and a stopper for controlling the waste-outlet, substantially as specified.

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