

April 30, 1940.

J. D. MORE

2,198,631

TUB

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FIG. 1.

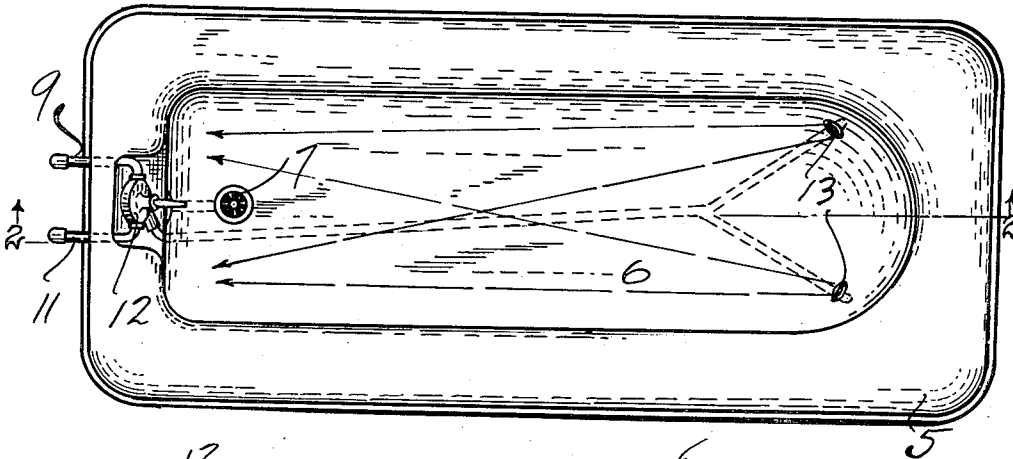


FIG. 2.

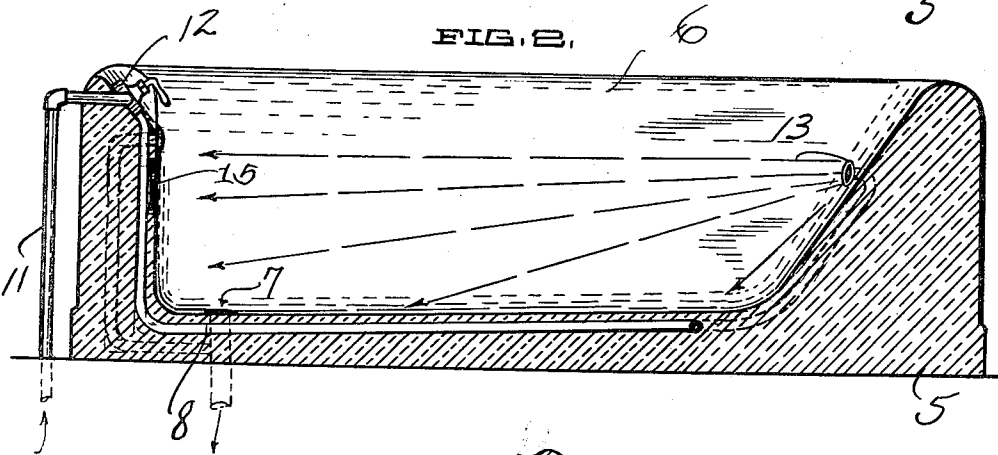


FIG. 3.

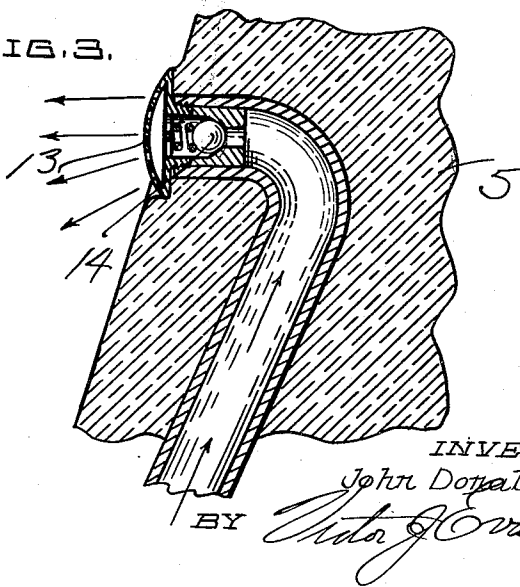
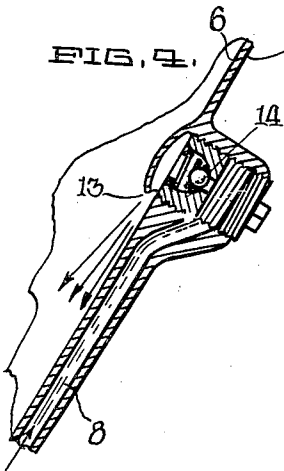


FIG. 4.



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UNITED STATES PATENT OFFICE

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TUB

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4 Claims. (Cl. 4—150)

This invention relates to improvements in tubs and has particular reference to a bathtub.

The principal object of this invention is to provide means for discharging water into a bathtub at the far end thereof so that water entering the tub will flow toward the drain at the opposite end of the tub.

A further object is to conserve the heat of the water entering the tub by dissipating it through the tub walls instead of allowing it to escape to the open atmosphere.

A further object is to produce a device of this character which may be easily installed in the ordinary tub previous to casting.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawing forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Fig. 1 is a top plan view of my tub;

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

Fig. 3 is an enlarged fragmentary cross sectional view of one of the discharge valves; and Fig. 4 is a somewhat modified form of inlet valve especially adapted to cast tubs.

The ordinary bathtub has a drain at one end thereof, and adjacent this drain are faucets. The result of this construction is that as the water issues from the faucet, it passes directly down the drain, unless the drain is closed in some manner. Consequently, after the tub has been used and it is desired to rinse the same, it can only be accomplished by filling the tub partly and slushing the water around in the tub.

It is my purpose to cause the water to enter the tub at the end opposite the drain so that as the water runs, the tub will be filled for a bath and later automatically rinsed toward the drain.

In the accompanying drawing wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 5 designates a bathtub cast or otherwise formed so as to provide a recess 6 in which a person may bathe. A drain is shown at 7, and a pipe or duct 8 connects the hot and cold water pipes 9 and 11 respectively through a mixing valve 12, whereby when the mixing valve 12 is turned on, the water will pass through the pipe or duct 8 and will be discharged through the nozzles 13. In the present instance, I have shown two noz-

zles, but it is obvious that more or less may be provided, if desired. This nozzle has a ball check 14 which prevents any back flow of water into the pipe or duct 8.

It will be apparent that when the water issues from the nozzles, it will flow downwardly against the sides of the tub to fill the tub and later thoroughly rinse the same and drive the water toward the drain.

In the form shown in Fig. 4, which form is especially adapted to cast tubs, the pipe or duct 8 is integrally formed with the tub body and enters the tub through slotted nozzles, the underside only of which are open to discharge the water downwardly against the slanting end of the tub, as shown by the arrows, thus reducing the noise attendant to the force of the water entering the tub.

In Fig. 1 a thermometer 15 is mounted in the drain end of the tub adjacent to the inlet 8 so that the temperature of the water entering the tub may be readily observed by the bather.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the material, size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. In a device of the class described, a tub having a bathing recess formed therein and having a drain formed at one end thereof, a pair of outlet ducts formed at the opposite end of said tub and having outlet nozzles communicating therewith, automatic valves in said nozzles to prevent the water passing from the tub through said nozzles to the ducts, a water inlet source connected to said ducts, and a mixing valve positioned in said supply to properly regulate the mixture of hot and cold water entering the tub.
2. In a device of the class described, a tub having a bathing recess formed therein, and provided with a drain and overflow at one end, a pair of outlet ducts formed at the opposite end of the tub below the overflow and having outlet nozzles communicating therewith, a water inlet source connected to said ducts, a mixing valve in said water inlet source at the end of the tub adjacent the drain, and automatic valves in said nozzles to prevent the water passing from the tub through the nozzles to the ducts.

3. In a device of the class described, a tub having a bathing recess formed therein, and provided with a drain and overflow at one end, a pair of outlet ducts formed at the opposite end of the tub below the overflow and having outlet nozzles communicating therewith, downwardly inclined deflecting plates over said nozzles, a water inlet source connected to said ducts, a mixing valve in said water inlet source at the end of the tub adjacent the drain, and automatic valves in said nozzles to prevent the water passing from the tub through the nozzles to the ducts.

4. In a device of the character described, a

tub having a bathing recess formed therein and provided with a drain and overflow at one end, a pair of outlet ducts formed at the opposite end of the tub below a plane with the overflow and having outlet nozzles communicating therewith and arranged at an angle so as to spray the water across the entire area of the tub at the drain end thereof, a water inlet source connected to said ducts, a mixing valve in said water inlet at the end of the tub adjacent the drain, and automatic valves in said nozzles to prevent the water from passing from the tub through the nozzles to the ducts.

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