

S. F. WILLIAMS.
BATH TUB.
APPLICATION FILED JUNE 24, 1909.

945,299.

Patented Jan. 4, 1910.

Fig. 1.

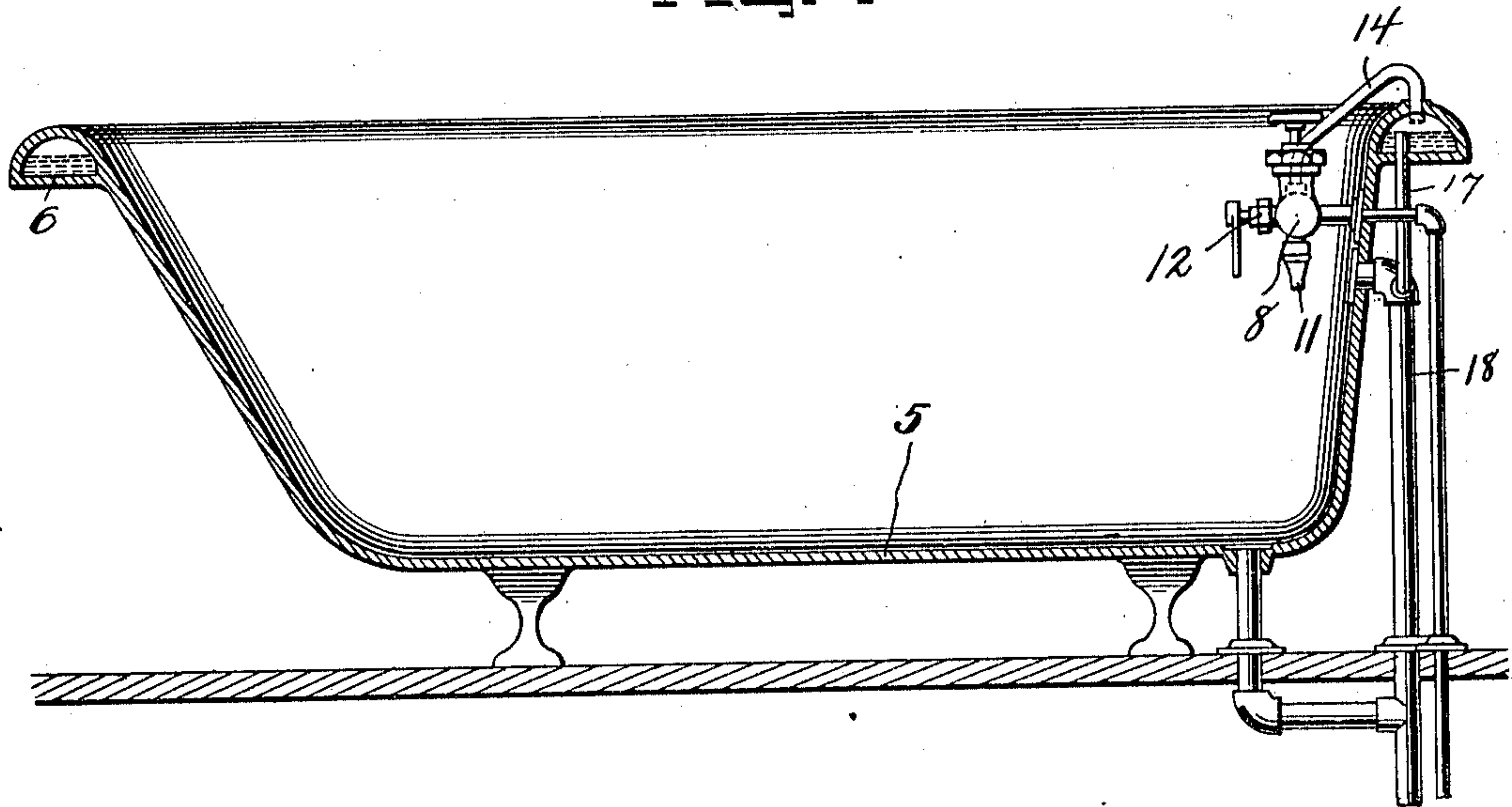


Fig. 2.

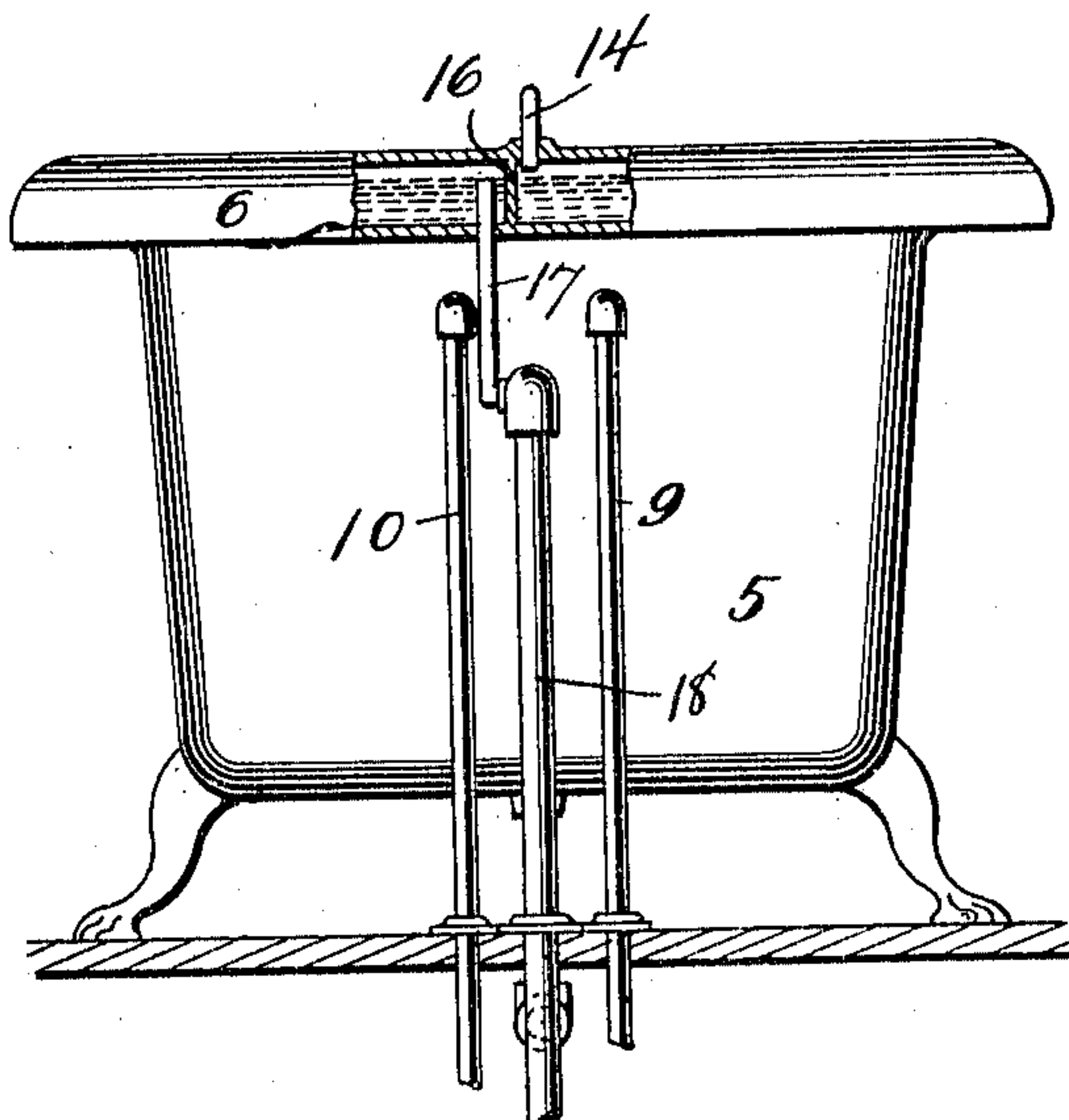
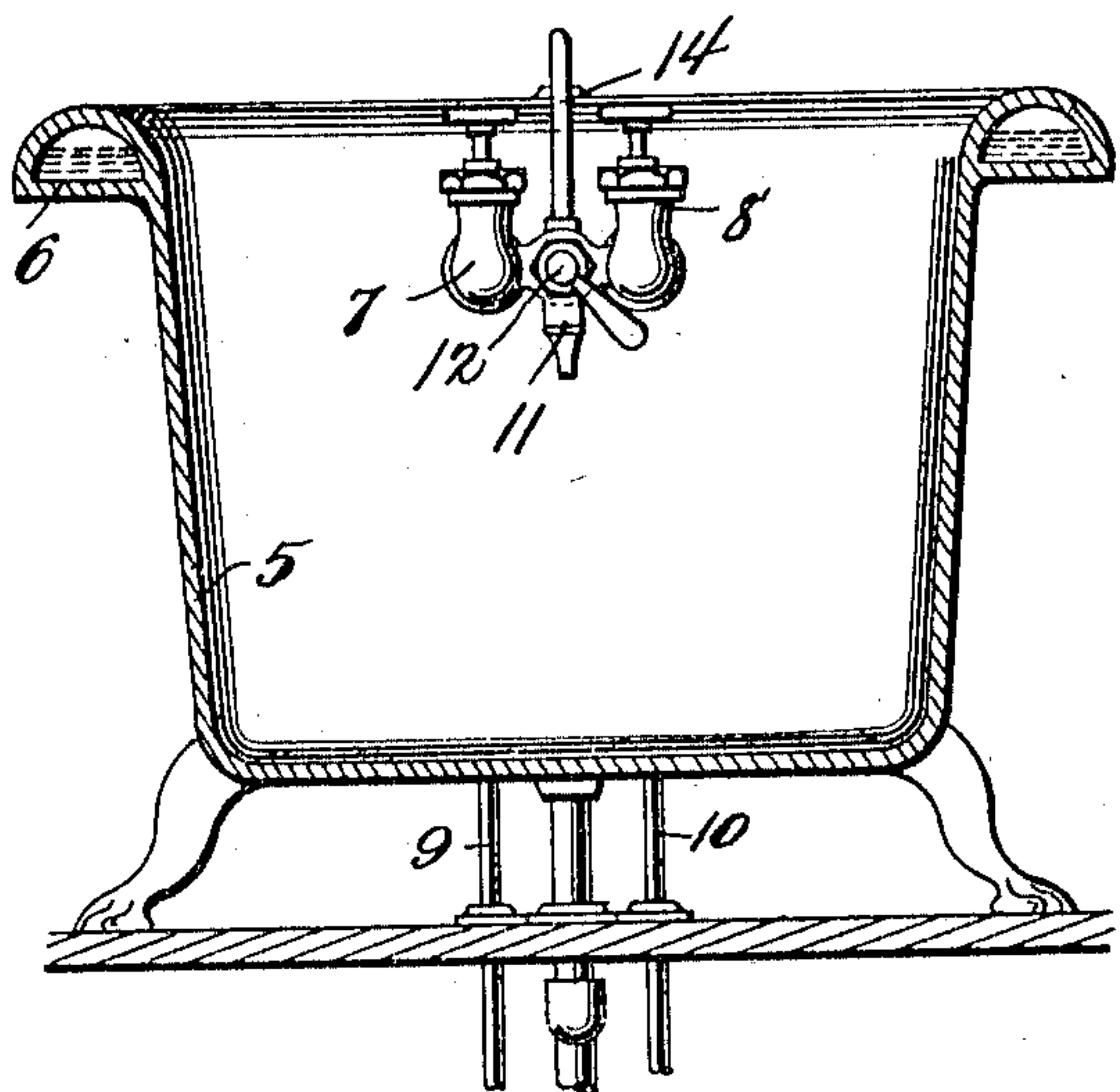


Fig. 3.



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BATH-TUB.

945,299.

Specification of Letters Patent.

Patented Jan. 4, 1910.

Application filed June 24, 1909. Serial No. 504,065.

To all whom it may concern:

Be it known that I, SAMUEL F. WILLIAMS, a citizen of the United States of America, residing at San Diego, in the county of San Diego and State of California, have invented certain new and useful Improvements in Bath-Tubs, of which the following is a specification.

This invention relates to bath tubs, the object thereof being to provide a bath tub comprising means for heating the rim thereof in a novel and efficient manner.

Further objects and advantages of the invention will be set forth in the detailed description which now follows.

In the accompanying drawing, Figure 1 is a longitudinal sectional view of a bath tub constructed in accordance with the invention, Fig. 2 is an end elevation thereof, and, Fig. 3 is a transverse section therethrough.

Like numerals designate corresponding parts in all of the figures of the drawing.

Referring to the drawing, the numeral 5 designates the body portion of the tub, said tub having an imperforate hollow rim 6 extending entirely therearound. Hot and cold water valves 7 and 8 control the flow of the hot and cold water from pipes 9 and 10 to a nozzle 11. A three way valve 12 is adapted when turned to one position to direct the hot water from the valve 7 to the nozzle and when turned to another position to direct the hot water from the valve 7 to a pipe 14 which discharges into the hollow rim. The hollow rim is divided by a partition 16 so that the water discharged from the pipe 14 must travel entirely around the rim to reach an outlet pipe 17 which leads from the interior of the rim to the overflow and waste pipe 18. The pipe 17 extends very nearly to the top of the chamber formed within the hollow rim. Consequently, some water is always left standing in the rim.

The operation of the device is as follows: When it is desired to heat the rim, three way valve 12 is turned to such position as to direct hot water from valve 7 through pipe 14 to the interior of the rim. The water standing in said rim is gradually driven out through pipe 17 to the waste, and hot water

takes its place thereby heating the rim of the tub and rendering the tub much more comfortable to use. If means were not provided for maintaining a certain amount of water in the rim, the sudden introduction of hot water into the interior of the rim and the consequent sudden expansion thereof would tend to crack the enamel of the tub. But by providing means for maintaining a certain amount of water in the rim, this sudden expansion is prevented and the heating of the rim is rendered very gradual.

From the foregoing description, it will be seen that simple and efficient means are herein provided for accomplishing the objects of the invention, but while the elements shown and described are well adapted to serve the purposes for which they are intended, it is to be understood that the invention is not limited to the precise construction set forth, but includes within its purview such changes as may be made within the scope of the appended claims.

Having described my invention, what I claim is:

1. The combination with a bath tub having a hollow hot water receiving and retaining rim around the upper edge thereof, of means for conducting hot water to the interior of said rim, and an overflow pipe leading from the interior of said rim.

2. The combination with a bath tub having a hollow hot water receiving and retaining rim around the upper edge thereof, of means for conducting hot water to the interior of said rim, and an overflow pipe leading from the interior of said rim, said overflow pipe projecting into said rim to such an extent as to normally maintain water within said rim.

3. The combination with a bath tub having a hollow water receiving and retaining rim around its upper edge, of a partition which divides said rim, a water supply pipe entering said rim adjacent said partition and an overflow pipe leading from said rim adjacent said partition, but upon the opposite side thereof.

4. The combination with a bath tub having a hollow water receiving rim around its

upper edge, of a partition dividing said rim, a hot water supply pipe leading to the interior of said rim from the usual hot water supply of the bath tub, a three way
5 valve adapted to direct the hot water either into said bath tub or into said rim and an overflow pipe leading from said rim.

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL F. WILLIAMS.

Witnesses:

SAM. BRUST,
A. M. McAULIFF.