

(No Model.)

W. GWYNN, Jr. & D. SPENCER.
TUB.

No. 520,880.

Patented June 5, 1894.

Fig. 1.

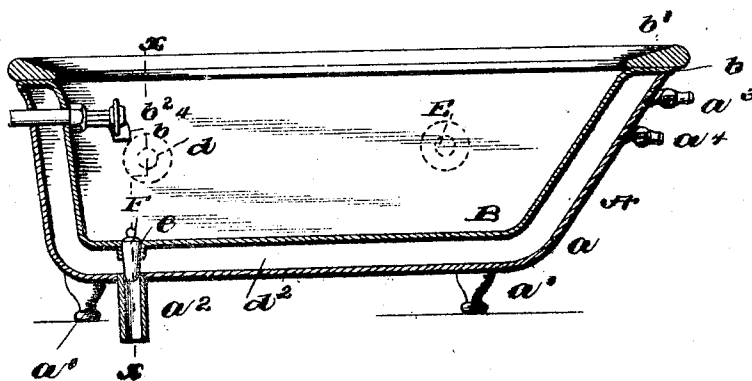
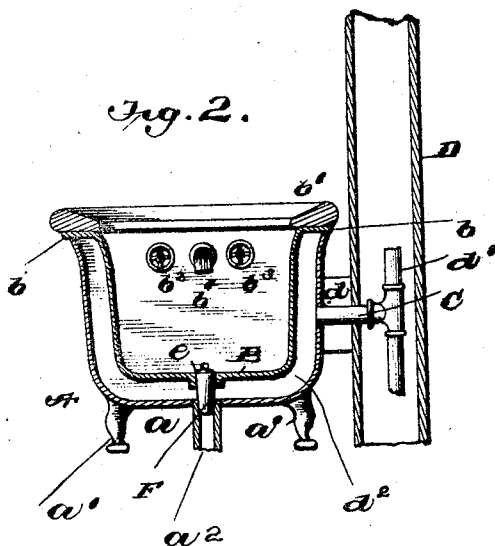


Fig. 2.



Witnesses

John Linnier
Jm S. Hodges.

Inventors

Inventor,
William Ferguson &
Dennis Spencer,
By *John M. Gill*,
Attorney

Attorney

UNITED STATES PATENT OFFICE.

WILLIAM GWYNN, JR., AND DENNIS SPENCER, OF NAPA, CALIFORNIA.

TUB.

SPECIFICATION forming part of Letters Patent No. 520,880, dated June 5, 1894.

Application filed April 28, 1893. Serial No. 472,336. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM GWYNN, Jr., and DENNIS SPENCER, of Napa, in the county of Napa and State of California, have invented certain new and useful Improvements in Tubs; and we 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.

This invention contemplates certain new and useful improvements in tubs for bathing or washing purposes, and it has for its object to provide a tub which can be readily heated and whereby the water therein will be maintained at a high degree of temperature.

The invention comprises a tub having a false-bottom or lining forming a continuous chamber for steam or hot-air or hot-water, which is fed thereto through an opening in the outer wall or bottom and likewise an exit in said wall or bottom to complete the circulation, and means for supplying hot and cold water to said tub and also to permit the discharge thereof and the discharge from said chamber.

The invention also comprises the details of construction, combination and arrangement of parts, substantially as hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawings:—Figure 1 is a vertical longitudinal sectional view of our improved tub. Fig. 2 is a transverse sectional view on line $x-x$, Fig. 1.

Referring to the drawings, A designates the tub, proper, a the continuous bottom, sides and ends thereof; a' legs extending from the latter; and a^2 an outlet pipe leading from an opening in the bottom. In one end of bottom a are two valves a^3 , a^4 , the former being used for the admission of air to prevent the formation of a vacuum by any sudden condensation of the steam in the chamber between the real and false bottoms of the tub; while the latter is used as a vent or outlet to relieve any extraordinary pressure of steam in said chamber.

B is a false-bottom which throughout its length is parallel with bottom a and the same has a continuous flanged edge b which is attached to the edges of said bottom a . Upon this flanged edge is a beveled strip b' . Through openings in one end of bottoms a and B are passed valved pipes b^2 , b^3 , for the admission of hot and cold water onto the false bottom, and between said pipes is an overflow pipe b^4 .

C is a pipe which opens at d into one side of bottom a , and its outer end is connected to a perpendicular pipe d' inclosed in a hot-air flue or jacket D. This pipe C supplies hot-air or steam, or hot-water, to the chamber d^3 formed between and by the two bottoms of the tub. An exit-pipe E opens into one side of bottom a , and is designed to complete the circulation of steam, or serve as an exit for hot air. In the bottom B is an outlet opening e directly coincident with pipe a^2 and the latter and said opening are normally closed by a tapered plug F. By removing this plug the water in the tub and in the chamber between the two bottoms can be readily permitted to flow out.

The advantages of our invention are apparent. It will be seen that by admitting steam or hot-air, or hot-water, if preferred, into the chamber between the real and false bottoms the water contained in the tub, proper, will be maintained at a high degree of temperature for a long period of time. It will also be seen that a complete circulation for the confined steam is obtained, and that the contents of the tub and chamber can be readily drawn off. A tub thus constructed is inexpensive and the advantages attained are of a superior order, especially so where the tub is used for medicated baths and the like.

We claim as our invention—

1. The tub having an outlet pipe, a false-bottom forming a continuous space or chamber and having a hole or opening, the hot-air or steam inlet pipe opening into said space or chamber, an exit-pipe leading therefrom, water supply pipes extending through one end of the tub, and the plug located in said hole or opening and exit-pipe, as set forth.

2. The tub herein-described having the continuous bottom *a* provided at one end with air and vent valves, the exit pipe connected to said bottom, the false-bottom parallel with
5 said bottom *a* forming a heating chamber and having a hole directly above said exit-pipe, the plug, the steam or hot-air supply and outlet pipes opening into one side of bottom *a* and communicating with said heating chamber,
10 and the water-supply pipes extending through said bottoms at one end, substantially as set forth.

In testimony whereof we have signed this specification in the presence of witnesses.

WM. GWYNN, JR.
DENNIS SPENCER.

Witnesses as to the signature of William Gwynn, Jr.:

D. SHAKESPEAR,
JOHN T. JOHNSTON.

Witnesses as to the signature of Dennis Spencer:

GEO. T. KNOX,
H. J. LANG.