(No Model.) 2 Sheets—Sheet 1.

W. W. ROSENFIELD.

BATH TUB.

No. 263,592. Patented Aug. 29, 1882.

Fig. 1.

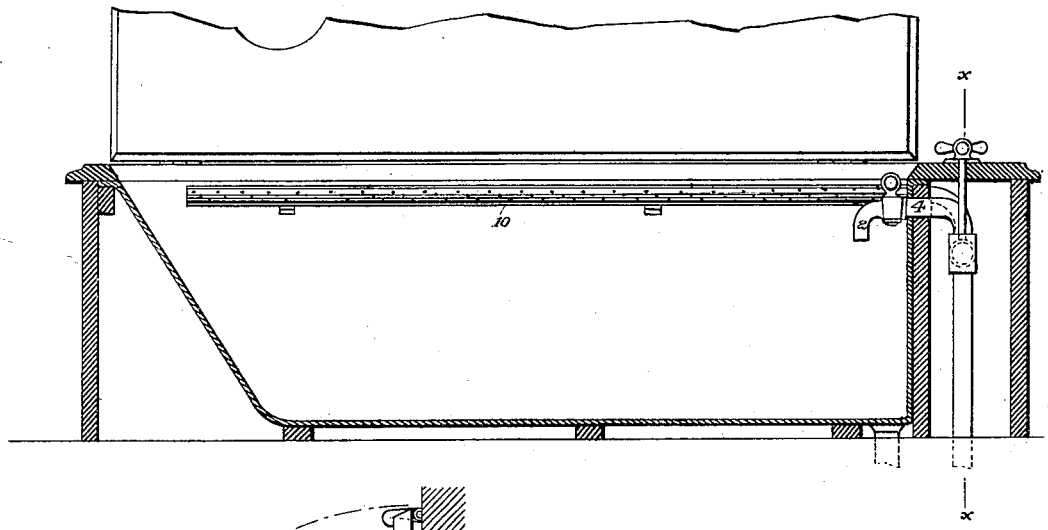


Fig. 2.

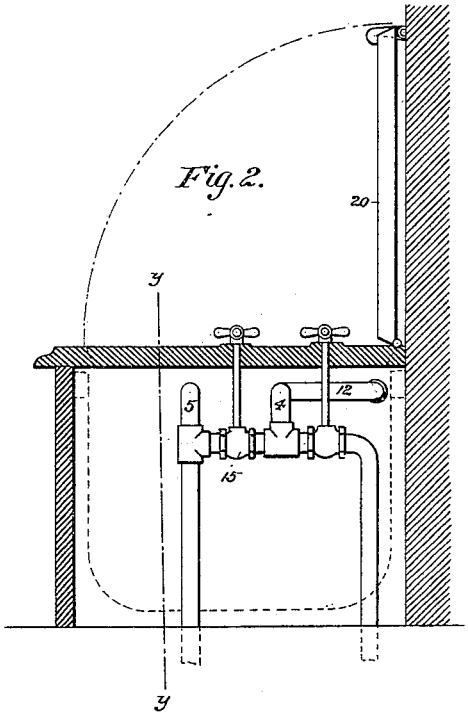
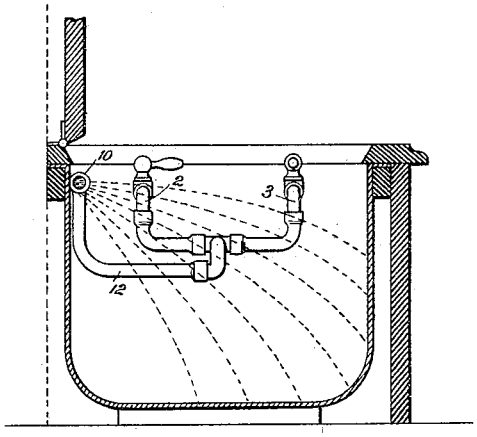


Fig. 3.



Attest:

R. F. Barnes

Anthony S. Jasbera

Inventor:

William W. Rosenfield,

by Munson & Philipp.

Attys:

(No Model.) 2 Sheets—Sheet 2.

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Fig. 4.

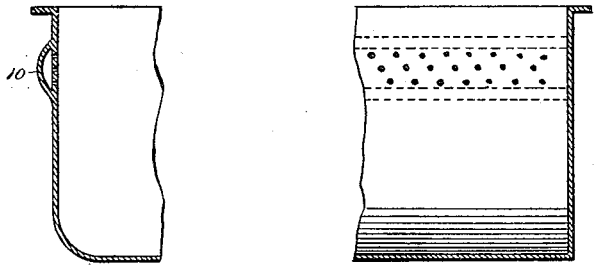
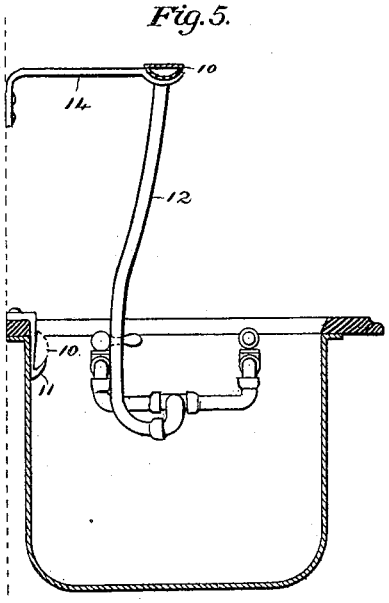


Fig. 6.

Fig. 5.



Attest:

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Inventor:

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by Munson & Philipp

Att'ys

UNITED STATES PATENT OFFICE.

WILLIAM W. ROSENFIELD, OF NEW YORK, N. Y., ASSIGNOR, BY MESNE ASSIGNMENTS, TO JOSEPH ARON, OF SAME PLACE.

BATH-TUB.

SPECIFICATION forming part of Letters Patent No. 263,592, dated August 29, 1882.

Application filed January 12, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. ROSENFIELD, a citizen of the United States, residing in the city of New York, county of New York, and State of New York, have invented certain new and useful Improvements in Bath-Tubs, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to improvements in bath-tubs; and it consists primarily in the combination, with the ordinary tub, of a shower or spray pipe arranged on one side or on both sides of the tub, so that the shower of water may pass directly onto the person, its extent being such as to capacitate it to reach the greater portion of the body when recumbent in the tub. It also contemplates such a pipe when arranged to be supported at the side of the tub or above the same, whereby it is capacitated to produce a shower or douche bath.

In Figure 1 is illustrated by a sectional elevation an ordinary bath-tub with my improvement in one form applied thereto. Fig. 2 is a transverse elevation of the same, showing the arrangement of the supply-pipes at one end of the tub, as seen from the rear. Fig. 3 is another sectional elevation through a tub embodying my improvement, looking toward the end of the tub through which the supply-pipes emerge. Fig. 4 shows a partial transverse and partial longitudinal elevation of a tub in which the fountain-pipe is modified in its structure. Fig. 5 illustrates another modification of the fountain-pipe and tub, whereby the same fountain-pipe may be supported to produce a shower-bath or a douche-bath. Fig. 6 represents a transverse section of a modified form of fountain pipe.

Bath-tubs as ordinarily constructed are provided with supply-pipes 4 5, having spigots 2 3, which supply hot and cold water to the said tub, and, furthermore, are often constructed with a shower-pipe connected with one or both of said supply-pipes and terminating at a considerable height above the tub in a rose, from which the water may be caused to descend in a shower upon the bather. This shower of water is, from the nature of the construction of the pipe, confined to a small area, and is specially adapted to descend upon the person while in a standing position, and from its fixed position relative to the length of the body cannot be deposited upon more than a limited portion of the body when in a recumbent position.

It is very desirable that the shower or spray may be deposited upon the entire length of the body while recumbent in the tub; and to that end my invention is primarily directed.

In carrying out the invention I construct the fountain-pipe of a length about equal to that of the tub and perforated throughout its greater portion or inner face, which pipe may be fixed in any convenient manner on one side of the tub and near its upper edge, so that the body of water or steam introduced into said pipe will be directed downward and upon the body when recumbent in the tub. There are many ways in which such a fountain-pipe may be constructed and attached. Thus it may be in the form of a long pipe, 10, having a transverse section either in the form shown in Fig. 3 or that shown in Figs. 5 or 6. Such pipe may be permanently secured in the relation to the tub shown in Figs. 1 and 3, or be arranged to be temporarily supported in such position by hooks or brackets, as 11, Fig. 5; or it may be a permanent structure formed in part by the side of the tub, as in Fig. 4. In any of these forms it may receive its supply of water or steam from direct attachment to a reservoir or other source of supply; or it may have a connecting-pipe, as 12, adapting it, through a Siamese attachment, as in Figs. 3 and 5, for connection with the spigots 2 3 of the ordinary bath-tub.

A desirable construction of fountain-pipe 10 is that shown in Fig. 6, which affords a rectangular bearing, suiting it for temporary attachment in the brackets or hangers 11 at the side of the tub for producing a douche-bath, or to be supported in brackets, as 14, above the tub for producing a shower-bath; but the form shown in said Fig. 5 is also well adapted for such uses of it.

In bath-tubs where the supply-pipes 4 5 are provided to furnish both hot and cold water it is desirable to connect the pipe 12 with said pipes 4 5 in such a manner that where a water bath is to be effected through the pipe 10 the temperature of the water may be regulat-

ed to suit the desire of the user. In that case, in one form, I propose to connect the pipes 4 5 with a coupling, 15, controlled by a valve, and a pipe, 12, with the pipe 4, with an intermediate valve, so that a proper supply of hot water from the pipe 5 may be passed into the pipe 12 and be tempered, as may be required, by mingling with the cold water in the pipe 4. This same effect will be produced by the Siamese connection shown in Figs. 3 and 5, and any other means suited to this object may be applied without departure from this invention.

In the arrangement shown in Figs. 3 and 5 the connecting-mouths of the Siamese attachment may be provided with coupling-nuts in a common manner; or, if the pipe be made of rubber, its flexibility may be depended upon to form a tight joint; or the mouth ends of such attachment, if rigid, may be cushioned interiorly with rubber for the same purpose. In this structure it is apparent that either hot or cold water may be supplied to the fountain-pipe or a combination of the two.

A fountain-pipe 10 may be arranged on both sides of the tub, near its upper edge, in which case one pipe 10 of either of the constructions shown may be stationary and the other movable, or both movable. With these provisions a single bath-tub is rendered capable of use in the ordinary way; or it may afford a shower, douche, needle, steam, or hot-air bath. Where this fountain-pipe (or pipes) is supplied with steam or hot air it is desirable to provide the bath-tub with a cover, 20, for the purpose of confining the steam or hot air within the same, a suitable hole being provided in said cover for the head of the user.

What is claimed is—

1. The combination, with an ordinary bath-tub, of a horizontal shower or spray pipe extending nearly or quite the whole length of the tub, substantially as described.

2. The combination, with an ordinary bath-tub, of a detachable shower or spray pipe of nearly or quite the length of the tub, and means for supporting said pipe longitudinally of the tub in such a position that the shower or spray will fall upon a person recumbent in the tub, substantially as described.

3. The combination, with a bath-tub and its hot and cold water cocks 2 3, of the detachable longitudinal shower-pipe 10, flexible connecting-pipe 12, Siamese attachment, and means for supporting said pipe 10 in an elevated position longitudinally of the tub, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

WM. W. ROSENFIELD.

Witnesses:
A. N. JASBERA,
GEO. H. GRAHAM.