No. 753,002. PATENTED FEB. 23, 1904.

C. A. RICKS.

BATH TUB.

APPLICATION FILED SEPT. 4, 1902.

NO MODEL.

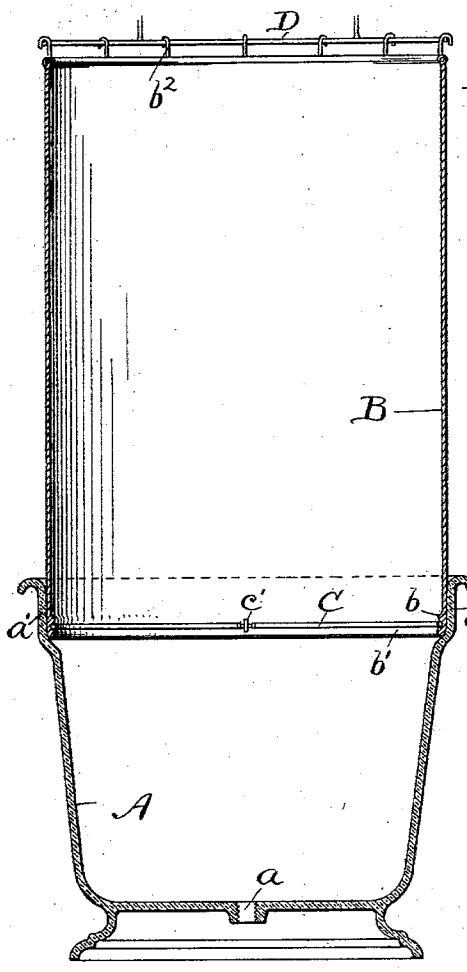


Fig. 1.

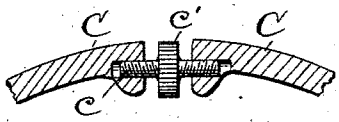
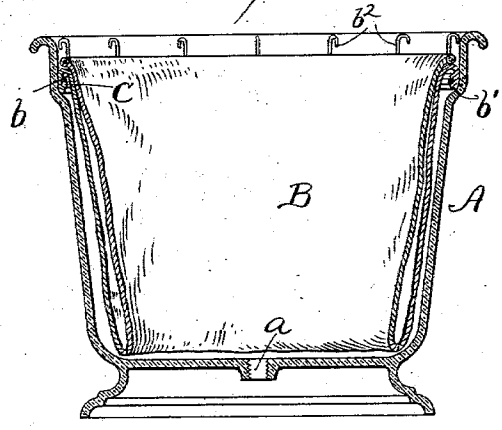


Fig. 4.

Fig. 2.



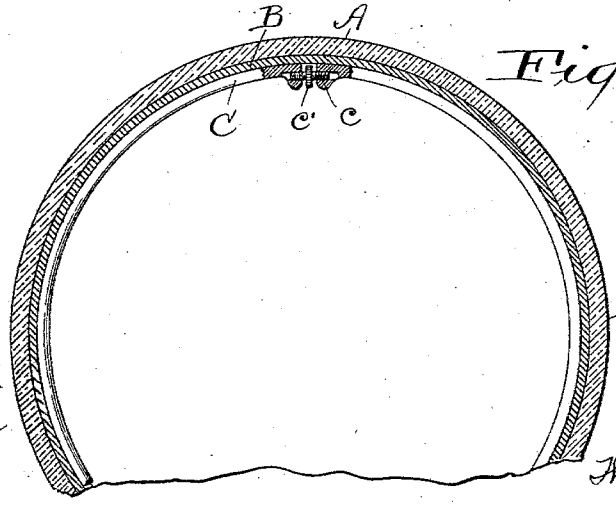


Fig. 3.

Witnesses:
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By his Attorneys,
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 753,002. Patented February 23, 1904.

UNITED STATES PATENT OFFICE.

CHARLES A. RICKS, OF GLENVILLE, OHIO.

BATH-TUB.

SPECIFICATION forming part of Letters Patent No. 753,002, dated February 23, 1904.

Application filed September 4, 1902. Serial No. 122,026. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. RICKS, a citizen of the United States, residing at Glenville, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Bath-Tubs, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

The object of this invention is to provide a bath-tub adapted for use where but limited space is available. My tub may be very satisfactorily employed on sleeping-cars, private cars, steamships, and in various places where there is not room for an ordinary tub.

The tub consists, essentially, of a lower receptacle having secured to it in a water-tight manner a flexible tubular sheath adapted to be drawn upward and, in effect, continue the bath-tub to the desired height, the tub being thus in operation a vertical bath-tub instead of a horizontal one. The invention comprehends such tub broadly.

The tub in an approved form is hereinafter more fully explained and its characteristics pointed out in the claims.

In the drawings, Figure 1 is a vertical central section through the tub with the tubular extension in its elevated form, showing the tub ready for use. Fig. 2 is a similar section with the vertical extension folded down into the tub. Fig. 3 is a horizontal section across the tub at the joint of the flexible extension therewith. Fig. 4 is a detail in section showing a portion of the clamping-ring and its expander.

Referring to the parts by letters, A represents a round vessel which forms the lower portion of the tub and may be made of metal, porcelain, or any other suitable substance and is provided with a suitable exit for the water, as indicated at *a*.

B represents the flexible extension of the tub. This is a large tube made, preferably, of rubber and secured at its lower end in a water-tight manner to the vessel A. This securement I prefer to accomplish by an expanding ring C, which lies between a pair of beads *b b'*, formed on the inner side of the tube B near its lower edge, the ring being expanded by suitable means to force the rubber tube into water-tight contact with the upper portion *a'* of the vessel A, which is preferably cylindrical at its point. The expanding of the ring C may be very conveniently accomplished by a right and left hand screw *c*, threaded into the two ends of the ring C and having a thumb-nut *c'* for turning it. This screw allows the ring to be expanded by hand, so that the rubber may be forced into water-tight contact with the vessel. It also allows the easy unclamping of the ring and the removal of the rubber extension for the purpose of cleaning. The upper edge of the rubber extension is provided with a series of hooks b^2, which when the rubber tube is folded up will preferably be within the vessel A and which are adapted when the tube is extended to hold it in such position, engaging suitable means above the tub for this purpose, as the ring D, suspended from the ceiling.

My tub may receive its water either from above or below, as desired. The rubber tube may be substantially filled with water without materially bulging it.

I am aware that rubber sheetings have been employed in connection with shower-baths, but none to my knowledge where the sheeting was a closed tube secured to a tub in a water-tight manner. With my invention a tub one foot and a half in diameter may very conveniently accommodate a large-sized person. Any seeming inconvenience from the vertical posture required is more fancied than real and is compensated for by the possibility of having water at any height desired. The tub is convenient, as one simply steps into it and raises the tubular extension, hooking it into place. The greatest feature of desirability about it, however, comes from the small floor-space required.

I claim—

1. In a bath-tub, a vessel, a flexible tubular upper extension therefor, and a clamping means for forcing the flexible extension into contact with the vessel, substantially as described.

2. In a bath-tub, in combination, a vessel, a flexible tube extending inside the vessel near its upper end, a ring within the tube,

and means for expanding the ring to force the tube into intimate contact with the vessel, substantially as described.

3. In a bath-tub, in combination, a vessel, a flexible water-tight tube, means for clamping the lower end of the tube in a water-tight manner to the upper end of the vessel, and means engaging the upper end of the tube for holding it in vertical position, substantially as described.

4. In a bath-tub, in combination, a vessel, a flexible rubber tube, said tube having an annular bead near its lower edge, a clamping-ring adjacent to said bead, and means for constraining said ring toward the vessel to force the rubber tube into intimate contact with the vessel, substantially as described.

5. In a bath-tub, in combination, a vessel, a flexible rubber tube extending into the same, said tube having a pair of annular beads near its lower edge, a clamping-ring between said beads, and means for expanding said ring to force the rubber tube into intimate contact with the vessel, substantially as described.

6. In a bath-tub, in combination, a vessel substantially round at its upper end, a flexible water-tight cylindrical tube, and means for clamping the lower end of the tube to the upper end of the vessel in a water-tight manner, substantially as described.

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

CHARLES A. RICKS.

Witnesses:

ALBERT H. BATES,

E. L. THURSTON.