To all whom it may concern:

Be it known that I, LEILA A. TRIAL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Shower-Bath Brushes, of which the following is a specification.

This invention pertains to an improved shower bath brush, the construction and advantages of which will be hereinafter set forth, reference being had to the annexed drawings, wherein—

Figure 1 is a vertical sectional view of one embodiment of the invention;

Fig. 2 a transverse horizontal section taken on the line II—II of Fig. 1;

Fig. 3 an enlarged sectional view illustrating certain details of construction;

Fig. 4 a perspective view, as seen from the underside, of the body portion of the device with the brush removed;

Fig. 5 a perspective view of the brush; and

Fig. 6 a sectional elevation illustrative of another application of the invention.

The main object of the invention is to provide a structure wherein, while a brush is present, the utilization of the device to produce a needle shower is in no wise affected by the brush.

A further object is to provide a simple and neat construction and yet at the same time a strong and durable one which will not be injured or become disarranged in the course of ordinary usage. A still further object is to provide means whereby the flow of water may be regulated and controlled.

With these and other objects in view, reference will be first had to Figs. 1 to 3 inclusive.

The main body or head of the structure is formed of two sheet metal elements, a cap piece 1 and a bottom 2. The cap piece is preferably convex in outline, terminating at its edge in a rim 3 and a downwardly extending turned flange 4 which latter embraces a complemental flange 5, formed at the margin of the bottom 2. Adjacent the flange 5 there is formed an outwardly extending annular way or channel 6 provided with a series of perforations 7 therein. Said channel, or more strictly the outer wall thereof, forms with the main body of the bottom plate 2, a socket or recess for the reception of a brush head or body 8 provided with a series of tufts of bristles 9. The bottom 2 is imperforate except for the openings 7 and inasmuch as they lie outside of the brush head and bristles the jets passing from said openings pass downwardly or outwardly unimpeded by the bristles. The head is provided with a central boss or projection 10 which is interiorly threaded and of a height equal to that of the outer rim 11 formed around the brush head, such construction preventing injury to the tuft retaining wires 12 as the brush is screwed into place in the socket formed therefor by the depending rim or channel 6.

The cap piece 1 and the bottom 2 are each provided with a central aperture through which is passed a threaded stem or bolt 12, the head 13 of the bolt resting upon the upper face of the cap piece and the lower end passing to a point below the under face of the bottom plate 2, such projecting portion forming in effect a threaded stem or stud upon which the hub or boss 10 of the brush may be screwed. A lock nut 14 is turned up upon the bolt or stud binds the adjacent portion of the cap 1 against the head 13 forming a water-tight joint at such point. The bolt and the bottom plate 2 are soldered or sweated together so that no leakage can take place about the bolt at this point. The upper end of the bolt is provided with an axial bore 14 and an opening or openings 15 are formed in the side walls thereof communicating with the water chamber formed between the elements 1 and 2. A fitting 16 is screwed into the upper end of the bolt, said fitting being provided with an adjustable valve 16 which controls the inflow of water which passes through a pipe 17 screwed laterally into the fitting. Said pipe preferably carries a handle 18 and a hose 19, adapted to be connected to a faucet by any suitable means (not shown), is slipped over the end of the pipe.

The construction as above set forth is durable and efficient. The bolt passing through the top plate and bottom and fastened or secured thereto, materially strengthens and stiffens the structure, preventing the joint between the top and bottom, where they are secured at their edges, from opening up. The joint or seam at this point may be soldered or sweated but when they may be are closely rolled or seamed and afterward plated, such soldering is not needed.

In Fig. 6 further application of the invention is shown wherein instead of em-
ploying a tubular member and handle as 17 and 18, above described, a flexible hose 20 attached to a swivel coupling 21 is employed, the threaded nipple portion 22 of said coupling being screwed into the upper end of the stud or bolt-like member 12 and being made of such a length that it may be turned inwardly so as to entirely close the lateral openings 15 or caused to overlap the same to a greater or less extent and thus regulate the flow of water through the perforations in the annular rim which surrounds the brush.

Under the constructions above set forth the brush may be dampened and soap applied thereto without possibility of the jets removing the soap from the brush when the water is turned on. Again, the brush being readily removable the holder may be used in common with an individual brush for each member of the family. It is conceivable, of course, that instead of using a bristle brush that a rubber brush may be employed, the latter having a nut or the like secured centrally thereof for the reception of a threaded stud.

What is claimed is:

1. A head for shower bath brushes, comprising, in combination, a cap piece and a bottom plate, said plate being provided with an outwardly extending annular channel having perforations formed in the bottom thereof, said cap piece and bottom plate being secured together at their marginal edges; a bolt extending through openings formed in said cap piece and bottom plate, said bolt at its lower end extending outwardly beyond the lower face of the bottom plate, the bolt being likewise provided with an axial bore at its upper end and a lateral opening extending into the bore within the space formed between the cap piece and the bottom plate; and means for securing the bolt in position.

2. A head for shower bath brushes, comprising, in combination, a cap piece; a bottom plate; said bottom plate being provided with an annular outwardly extending channel adjacent its periphery, said channel having perforations therein, the marginal edges of said plate and cap piece overlapping and turned one upon the other to form an interlocking joint; a bolt extending through openings formed centrally of the cap piece and bottom plate, the bolt being of such length that its lower end extends outwardly beyond the bottom plate forming a threaded stud for the reception of a brush; and a lock nut mounted upon the upper portion of the bolt below the cap piece and serving to bind the same against the head of the bolt, said bolt being provided with a threaded axial bore at its upper end and a lateral opening extending into the bore.

3. A shower bath brush, comprising, in combination, a top plate; a bottom plate secured thereto, said bottom plate having a socket or recess formed centrally thereof by an outwardly extending rim or channel having perforations in the outer wall thereof; an outwardly extending imperforate threaded stud located centrally of the socket; and a brush head carrying bristles and having a threaded socket adapted to be screwed on to the stud, the bristles standing substantially parallel to the stud and lying inside the line of jets which pass outwardly from the perforations in the rim aforesaid.

In testimony whereof I have signed my name to this specification.

LEILA A. TRIAL.