

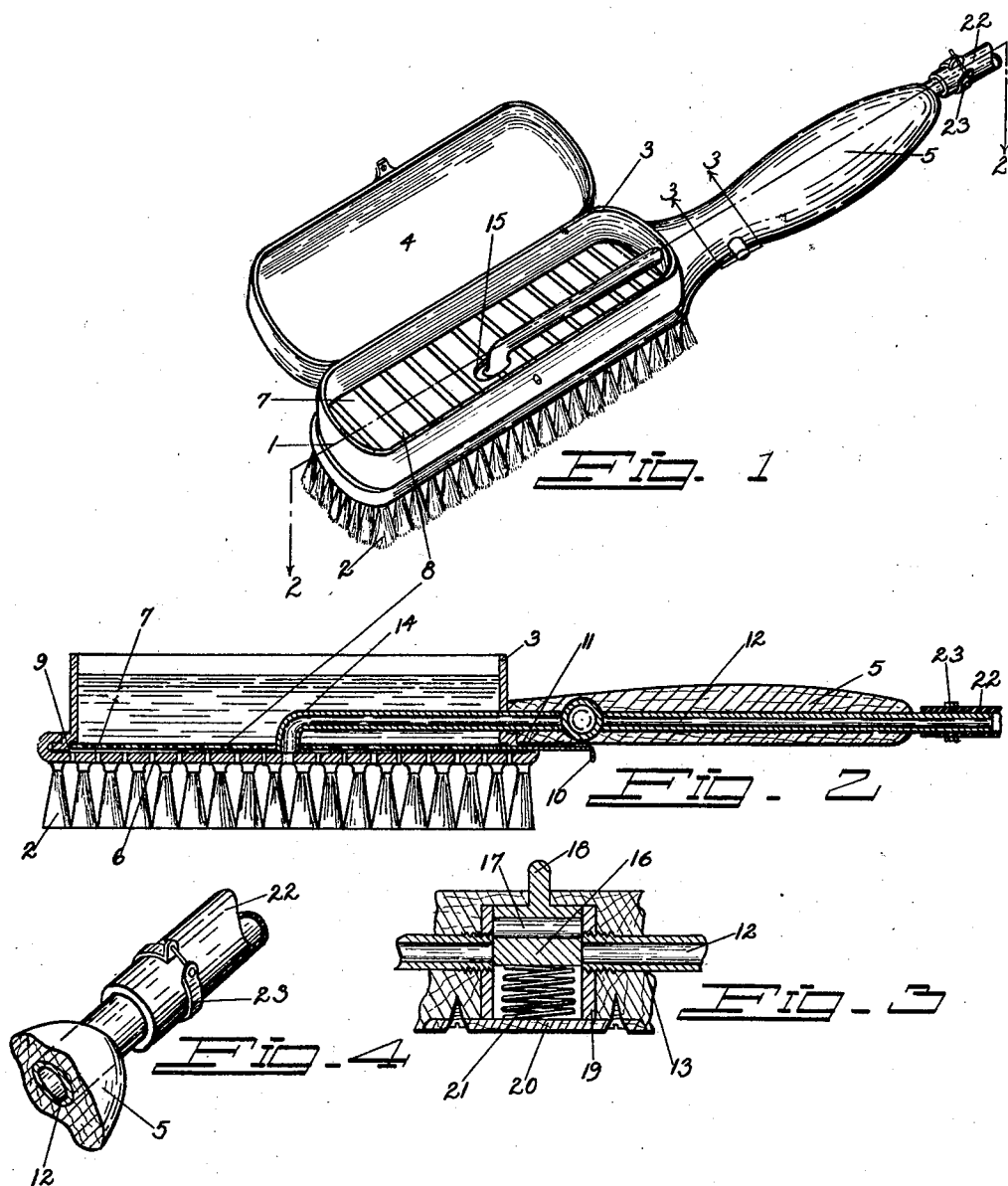
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FOUNTAIN BRUSH

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MARK SOSS

Inventor

By Herbert E. Smith

Attorney

UNITED STATES PATENT OFFICE

MARK SOSS, OF SPOKANE, WASHINGTON

FOUNTAIN BRUSH

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My present invention relates to an improved fountain brush of the type designed for use as a hair brush, bath brush, or the brush of my invention may be appropriated
5 for other uses to which it is adapted. In carrying out my invention I provide the usual hand manipulated brush, of the type utilized for brushing the hair, with a reservoir in its back for the purpose of containing
10 either liquid or powdered soap, and means provided for controlling the feed of the soap to the brush or to its bristles. Means are also utilized for feeding water, through the brush handle and through the brush head,
15 to the bristles of the brush, so that the brush may be used for shampooing and similar purposes on the head of the user, or the brush may be used as a bath brush, and the feed of both soap and water are separately and
20 independently controlled by the hand holding or manipulating the brush.

The invention consists in certain novel combinations and arrangements of parts as will hereinafter be more fully set forth and
25 claimed. In the accompanying drawings I have illustrated one complete example of the physical embodiment of my invention wherein the parts are combined and arranged according to the best mode I have thus far
30 devised for the practical application of the principles of my invention.

Figure 1 is a perspective view of a brush embodying my invention, with the lid of the reservoir open to disclose the interior construction of the brush back.
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Figure 2 is a longitudinal sectional view with the reservoir lid or cover omitted and showing liquid soap in the reservoir.

Figure 3 is an enlarged, sectional detail
40 view showing the water valve in the handle for controlling feed of water to the brush.

Figure 4 is a fragmentary detail perspective view showing the hose coupling to the handle of the brush, for the water supply.

45 In the preferred form of my invention as shown in the drawings I use the well known type of brush-head 1 with the bristles or tufts 2 of bristles secured therein in usual manner, and the back of the brush is fashioned in the
50 form of a reservoir 3 in which liquid soap,

as indicated in Figure 2, may be used, or in some instances, a powder detergent may be contained in the reservoir, which latter is closed and secured by a hinged lid 4.

A hollow handle 5 is secured to the head
55 of the brush, and the latter is fashioned with a number of transversely arranged, parallel slots 6 spaced apart at equal distances throughout the area of the head, to permit the liquid soap or powder soap to pass there-
60 through to the bristles, or between adjoining rows of bristles.

The feed of the soap through these slots is controlled by a slide plate 7 within the reservoir and imposed on the top of the
65 slotted brush head to slide thereon. The slide plate has a series of transversely arranged ports 8 complementary to the feed slots of the brush head and the ports may be made to register or partially register with
70 the slots to feed the soap, or the ports may be moved out of register with the slots, as in Figure 2 to close the slots and prevent feed of soap therethrough.

For retaining and guiding the movement
75 of the slide plate a guide flange 9 is provided around the walls of the reservoir adjacent the brush head and the edges of the slide plate fit under the flange to hold the plate in frictional contact with the head not only to guide
80 the plate, but also to maintain such close relation between the faces of the plate and head as to prevent leakage of the soap from the reservoir when the ports are closed.

The position of the slide plate may be determined by use of the exterior handle 10
85 rigid with the plate and located beneath the handle where it is readily accessible by the user of the brush. The slide plate may be pushed or pulled by the use of the thumb to
90 open or partially open the ports or to close them, and the handle 10 of the plate moves in a slot 11 provided therefor between the handle 5 of the brush and the brush head.
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Water is supplied to the brush through a water pipe 12 located in a longitudinal bore or opening 13 of the brush handle, and at 14 within the reservoir the pipe bends to an open port through the brush head located about or
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approximately at the center of the head for distribution of water to the bristles.

To accommodate the sliding movement of the plate 7 the latter is slotted at 15 and the bent port or end of the water pipe passing through the slot, thus permitting the required sliding movement of the plate.

The supply of water to the brush head is controlled through the utilization of a valve 16 reciprocable transversely of the handle of the brush and provided with a port 17 to register with the bore of the water pipe 16 when the stem 18 of the valve is pressed inwardly toward the longitudinal axis of the handle. The valve is located in a casing 19 secured in the handle by a cap plate 20 which plate is screwed into the countersunk mouth of the socket in the handle in which the casing of the valve is located. The valve is held in normally closed position by means of a spring 21 interposed between the plate 20 and the valve, and it will be apparent that by pressure from the thumb or finger on the projecting stem 18, the valve port may be partially opened or fully opened to control flow of water through the handle to the brush head for irrigating purposes, shampooing, bathing, etc.

The brush is attached to the free end of a flexible pipe or hose 22 through the use of a suitable coupling 23, and the hose is of course connected to a suitable source of water supply.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

The combination with a transversely slotted brush head, a liquid soap reservoir, and a longitudinally slotted slide plate having transverse ports for controlling feed of soap through the slotted brush head, of a handle to the brush, a water pipe extended through the handle, said water pipe projecting into the reservoir and having a bend through the longitudinally slotted slide plate and a port through the head, and a transversely arranged, normally closed, spring pressed valve in the water pipe of the handle.

In testimony whereof I affix my signature.

MARK SOSS.