

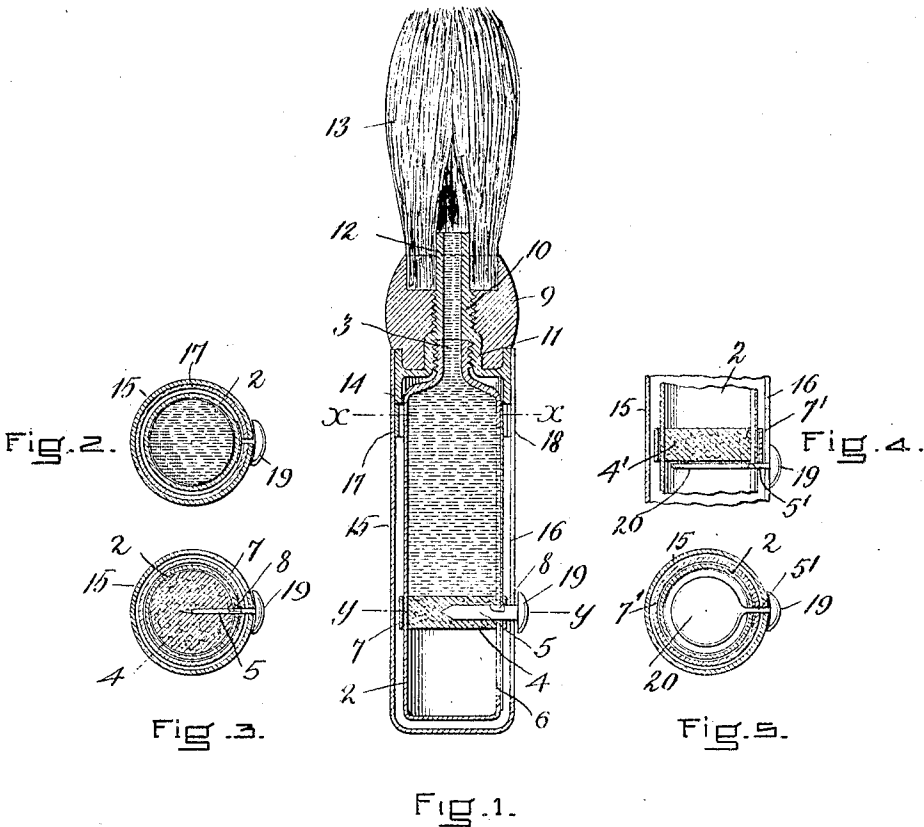
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PATENTED APR. 23, 1907.

W. L. CLARK.

FOUNTAIN BRUSH.

APPLICATION FILED JAN. 29, 1906.



WITNESSES

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FOUNTAIN-BRUSH.

No. 851,587.

Specification of Letters Patent.

Patented April 23, 1907.

Application filed January 29, 1906. Serial No. 298,392.

To all whom it may concern:

Be it known that I, WALTER L. CLARK, a citizen of the United States, and a resident of New York, in the county and State of New York, have invented new and useful Improvements in Fountain-Brushes, of which the following is a specification.

This invention relates to brushes of that type in which provision is made for supplying to the brush the material to be applied thereby, as fast as the same may be required, by combining with the brush proper a reservoir or receptacle containing the material and adapted to discharge its contents upon or in proximity to the bristles.

My improvements relate more particularly to the handle portion of such brushes, being intended to provide a construction of brush handle which will enable the user to expel the material from the reservoir by manipulating the parts from the exterior of the handle, and will also completely conceal the reservoir and at the same time permit the latter to be readily removed when empty and replaced by a full one. My invention thus makes possible the employment of plain and inexpensive detachable reservoirs in connection with a brush handle of expensive and elaborately ornamental construction, without detriment to the appearance of the brush when ready for use.

In the accompanying drawings, Figure 1 is a central longitudinal section through a shaving brush embodying my improvements in their preferred form; Figs. 2 and 3 are cross sections taken respectively on the lines $x-x$ and $y-y$ in Fig. 1; Fig. 4 is a detail sectional view similar to a portion of Fig. 1 but illustrating a slight modification, and Fig. 5 is a cross section further illustrating the parts shown in Fig. 4.

In the drawings, Figs. 1, 2 and 3 illustrate my improvements as preferably constructed for use in connection with a soap receptacle such as is shown in U. S. Letters Patent to Ziegler, No. 769,928, granted September 13, 1904. This receptacle, as herein represented, consists of a rigid or non-collapsible tube 2 having a mouth or outlet 3 at one end and containing a piston 4 which is originally located at the opposite or closed end of the tube 2, behind the material contained in the tube, and carries a stem or shank 5 extending outward through a longitudinal slot 6 formed in the wall of the tube. The stem 5 is connected, on the outside of the tube 2, with oper-

ating means such as a ring 7 adapted to slide on the tube, whereby the piston may be forced forward to eject the contents of the tube as fast as desired, and the material is prevented from escaping through the slot 6 in front of the piston by covering said slot with a strip of tin foil or other easily severed material which is cut through by a sharp edge 8 formed on the shank 5 as the latter advances in the slot, substantially as described in the Ziegler patent above referred to. In order to adapt my brush to be detachably combined with this receptacle I provide the body 9 of the brush with a bushing 10 having an internally-threaded portion 11 into which the threaded nipple which surrounds the mouth of the tube 2 may be screwed, and also having an open tubular extension 12 leading from the portion 11 into the mass of bristles 13. The body of the brush also carries a short tubular portion 14 adapted to receive the end of the tube 2 and preferably formed integral with the bushing 10, and in connection therewith I provide a tubular sleeve or sheath 15 of such a size that it will receive the remainder of the tube 2 and fit telescopically at its open or front end upon the tubular portion 14. This sleeve when telescoped upon said portion 14 forms the handle of the brush, and is provided on one side with a longitudinally extending slot 16 which may be arranged directly over and in alinement with the slot 6 in the tube 2. The slot 16 is extended through the front or open end of the sheath or handle 15, and the latter is preferably reinforced near said open end by a split ring 17 which is rigidly secured to the interior of said sleeve and may conveniently form a stop to limit the movement of the latter when applied to the tubular portion 14. The gap 18 in the ring 17 coincides in width and position with the slot 16, and said ring is preferably made of spring metal so that it will assist in causing the sleeve to grip the tubular portion 14 and also prevent the open end of said sleeve from being unduly expanded. The stem 5 which operates the piston 4 is extended outward far enough to cause it to pass through the slot 16 and is provided at its outer end with a thumb piece or other operating device 19.

As thus constructed, the piston may be operated from the exterior of the brush handle by means of the thumb piece 19, the stem which moves said piston being capable of sliding along the alined slots 6 and 16. When

any tube 2 has been emptied and is to be replaced by a full tube the sleeve or handle 15 is withdrawn from the tubular portion 14 and removed entirely, the ring 17 being made large enough to pass over the ring 7 and the stem 5 being thus enabled to pass out through the open end of the slot 16, and the empty tube is then unscrewed from the body of the brush and replaced by a full one. The sleeve 15 is then slipped over the tube, with the stem 5 passing through the slot 16, and is located in telescopic relation upon the tubular portion 14, whereupon the brush is ready for use.

According to the modification shown in Figs. 4 and 5, the piston 4' is operated by means of a follower 20 located in the tube 2 behind the piston and carrying the stem 5' and thumb piece 19. In this case the stem 5' is rigidly secured to the ring 7' and the piston itself is not positively connected to either of these parts, the object being to avoid any possibility of tilting the piston and thus causing it to bind in the tube 2 when forced forward. In either embodiment of my invention the brush proper and the detachable sleeve or handle may be of expensive construction and as ornamental as may be desired, thus preserving a uniformly attractive appearance, without preventing the employment of inexpensively constructed soap receptacles which are useful for a short time only and are then discarded.

While my improvements are herein shown and described as applied to a shaving brush, it will be evident that they may be employed as well in connection with various other kinds of fountain brushes, and that the described details of construction may be variously modified without departing from my invention.

I claim as my invention:

1. In a fountain brush, the combination with the body of the brush of a receptacle adapted to be detachably connected thereto and containing a piston for expelling the contents of the receptacle, a sheath or sleeve secured to the body of the brush and detachable therefrom independently of the receptacle, said sheath or sleeve being adapted to inclose the receptacle and form a handle for the brush, and means passing through said sheath or sleeve for operating the piston in said receptacle.

2. In a fountain brush, the combination with the body of the brush of a receptacle adapted to be detachably connected thereto and containing a piston for expelling the contents of the receptacle, a sleeve detachably secured to the body of the brush, independently of the receptacle, and adapted to contain said receptacle, said sleeve having a longitudinal slot extending through its open end, and piston-operating means extending from the interior of the receptacle through

the slot in the sleeve and movable from the exterior of the latter.

3. In a fountain brush, the combination with the body of the brush of a receptacle adapted to be detachably connected thereto and containing a piston for expelling the contents of the receptacle, a detachable sleeve telescopically fitted to the body of the brush and adapted to contain said receptacle, said sleeve having a longitudinal slot extending through its open end, a split ring secured to the interior of the sleeve and having its gap located in alinement with said slot, and piston-operating means extending from the interior of the receptacle through the slot in the sleeve and movable from the exterior of the latter.

4. In a fountain brush, the combination of a body portion containing an open tubular bushing leading at one end into the mass of bristles and provided at its other end with an internally-threaded portion, a tubular receptacle having a threaded nipple surrounding its outlet and adapted to fit the threaded portion of the bushing, a piston located in said receptacle for expelling the contents of the latter, a short tubular portion carried by said bushing, a sheath or sleeve adapted to inclose said receptacle and form a handle for the brush, said brush or sleeve being fitted at its front or open end to said tubular portion and being detachable therefrom independently of the receptacle, and means passing through the receptacle and through said sheath or sleeve for operating said piston.

5. In a fountain brush, the combination of a body portion containing an open tubular bushing leading at one end into the mass of bristles and provided at its other end with an internally-threaded portion, a longitudinally-slotted receptacle having a threaded nipple surrounding its outlet and adapted to fit the threaded portion of the bushing, a piston located in said receptacle for expelling the contents of the latter, a short tubular portion carried by said bushing, a detachable sleeve or sheath adapted to inclose said receptacle and telescopically fitted at its front or open end to said tubular portion, said sleeve having a longitudinal slot extending through its open end, and a piston-actuating stem extending through the slots in the receptacle and sleeve and provided on the exterior of the latter with operating means.

6. As an article of manufacture, a brush comprising in combination a body portion, means for detachably connecting a receptacle thereto, and a detachable sleeve or sheath adapted to inclose said receptacle and forming the handle of the brush, said sleeve having a longitudinal slot extending through its open end, for the purpose set forth.

7. As an article of manufacture, a brush comprising in combination a body portion, means for detachably connecting a receptacle

cle thereto, a detachable sleeve or sheath adapted to inclose said receptacle and forming the handle of the brush, said sleeve having a longitudinal slot extending through its open end, and a split ring carried by said sleeve at or near said open end, the gap in said ring being located in alinement with the slot in the sleeve.

8. As an article of manufacture, a brush comprising in combination a body portion containing an open tubular bushing leading at one end into the mass of bristles and provided at its other end with an internally-

threaded portion, a short tubular portion carried by said bushing, and a detachable sleeve or sheath telescopically fitted at its front or open end to said tubular portion and having a longitudinal slot extending through said open end, for the purpose set forth.

In testimony whereof, I have hereunto subscribed my name this tenth day of January, 1906.

WALTER L. CLARK.

Witnesses:

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