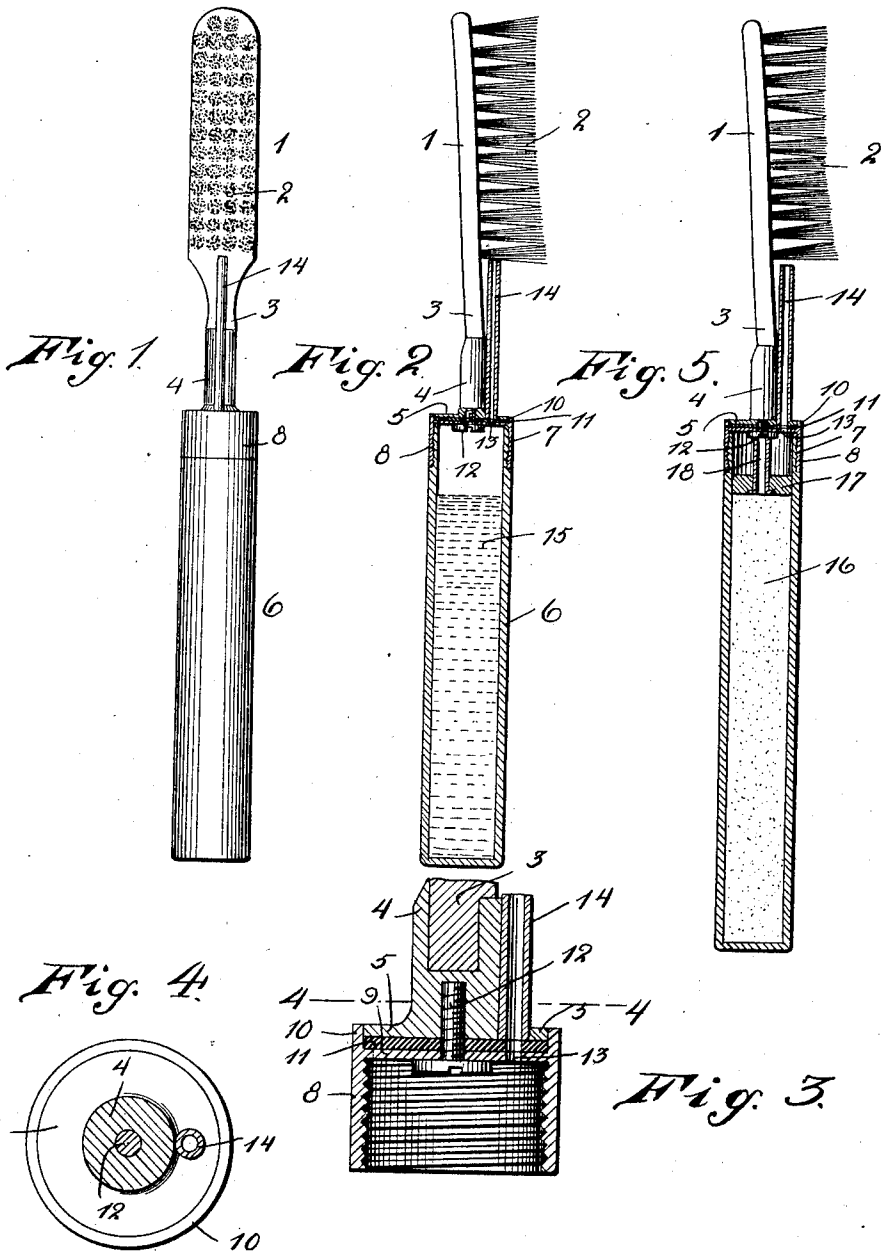


S. STEWART.  
 FOUNTAIN BRUSH.  
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1,003,159.

Patented Sept. 12, 1911.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## FOUNTAIN-BRUSH.

1,003,159.

Specification of Letters Patent.

Patented Sept. 12, 1911.

Application filed April 25, 1911. Serial No. 623,243.

*To all whom it may concern:*

Be it known that I, SCOTT STEWART, a citizen of the United States, residing at Rivesville, in the county of Marion and State of West Virginia, have invented certain new and useful Improvements in Fountain-Brushes, of which the following is a specification.

This invention relates to fountain brushes and more particularly to a fountain tooth brush.

An important object of this invention is to provide a fountain tooth brush which is characterized by its simplicity of structure whereby the same may be manufactured cheaply.

A further object of this invention is to provide a device of the above character which is simple and positive in operation.

Other objects and advantages of this invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same, Figure 1 is a front view of my brush, Fig. 2 is a side view thereof, parts of the same being shown in section, Fig. 3 is an enlarged sectional view through the cap of the hollow handle or reservoir, Fig. 4 is a horizontal sectional view taken on line 4—4 of Fig. 3, and, Fig. 5 is a view similar to Fig. 2, showing means arranged within the hollow handle to cooperate with powder stored in the handle.

In the drawings wherein is illustrated a preferred embodiment of my invention, a tooth brush is shown comprising a brush-head 1, carrying bristles 2, as shown. The brush-head 1 is reduced at one end to form a stem 3, which is disposed and clamped within an opening formed in a shank 4. This shank has connection at one end with a circular plate 5, which is preferably formed integral with said shank.

A hollow handle or reservoir 6 is provided, to hold the liquid material to be supplied to the bristles 2, and this hollow handle has one end thereof reduced and externally screw-threaded, as shown at 7, for engagement with an internally screw-threaded cap 8. Upon the end wall 9 of the cap 8 is formed an annular flange 10, within which is rotatably mounted the circular plate 5, said plate fitting snugly within the flange. Dis-

posed between the plate 5 and the end wall 9, is a circular washer 11, which is cemented or otherwise attached to the end wall 9 for rotation therewith. A screw 12 passes through central openings formed in the end wall 9 and the washer 11 and engages within a screw-threaded opening formed in the shank 4. It is to be understood that the screw 12 holds the plate 5 in proper frictional engagement with the washer 11, to permit the rotation of the cap 8 with relation to the shank 4 but to prevent such a rotation until sufficient pressure is employed. This frictional engagement may be controlled by proper manipulation of the screw 12. An opening 13 is formed through the end wall 9 and the washer 11, which opening is adapted to move into and out of registration with the axial opening of a discharge pipe 14. This discharge pipe is attached to the circular plate 5, as shown. The pipe 14 extends toward the bristles 2 and terminates in close proximity to the same. The reservoir 6, as shown in Fig. 2, is partly filled with a liquid material 15.

The structure shown in Fig. 5 is just like that shown in Fig. 2, except that the reservoir 6 is made a little longer. The reservoir is filled with powder 16. Disposed within the reservoir 6 and near the open end thereof is a removable stopper 17 through which extends a nipple 18, which is engaged by the head of the screw 12 when the cap 8 occupies its normal closed position. The head of the screw 12 thus serves to prevent the discharge of the powder through the nipple 18.

In the use of the device, as shown in Figs. 1 to 4, inclusive, the reservoir 6 is partly filled with the liquid material 15. When it is desired to supply this liquid to the bristles 2, the reservoir 6 is rotated and the cap 8 carried thereby is also rotated, to bring the opening 13 into registration with the axial opening of the discharge pipe 14. By holding the device so that the reservoir is above the bristles, the liquid will feed to the bristles. This supply of liquid may be cut off by rotating the reservoir 6. The cap 8 may be readily removed from the reservoir 6 when it is desired to replenish the liquid material 15.

In the use of the device, as illustrated in Fig. 5, the reservoir 6 is first disengaged from the cap 8 and the powder 16 sprinkled

upon the bristles 2 by shaking such reservoir near and above said bristles, so that the powder 16 will pass through the nipple 18 and be deposited on the bristles. It will thus be  
 5 seen that the device may be employed to hold and supply either a liquid or a powder material to the bristles 2.

Having thus described my invention, I claim:—

10 A brush of the character described, comprising a brush-head carrying bristles and reduced at one end to form a stem, a shank having an opening formed therein to receive the stem and rigidly connected with  
 15 a circular plate, a cap provided with an annular flange within which the plate is rotatably mounted, a screw pivotally connecting the end wall of the cap and shank,

a pipe connected with the plate and arranged to discharge material to the bristles, the end  
 20 wall of the cap having an opening formed therethrough to be moved into and out of registration with the axial opening of the pipe, a reservoir detachably connected with  
 25 the cap, a stopper removably mounted in the upper end of the reservoir, and a nipple connected with the stopper and positioned to engage the head of the screw so that the axial opening of said nipple may be closed.

In testimony whereof I affix my signature 30 in presence of two witnesses.

SCOTT STEWART.

Witnesses:

JAS. A. MEREDITH,  
 G. W. D. TWYMAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."