No. 800,422. PATENTED SEPT. 26, 1905.

R. A. WHITE.

BRUSH.

APPLICATION FILED NOV. 22, 1904.

Fig: 1.

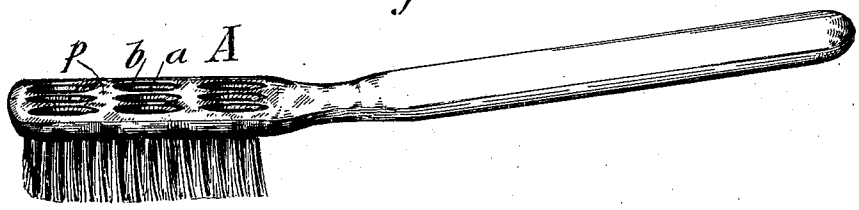


Fig: 2.

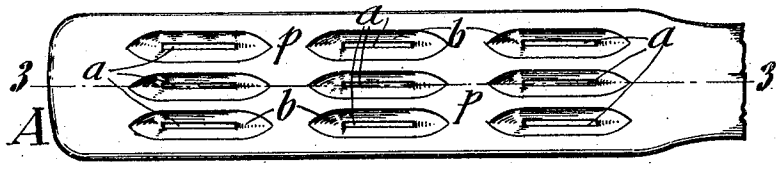


Fig: 3.

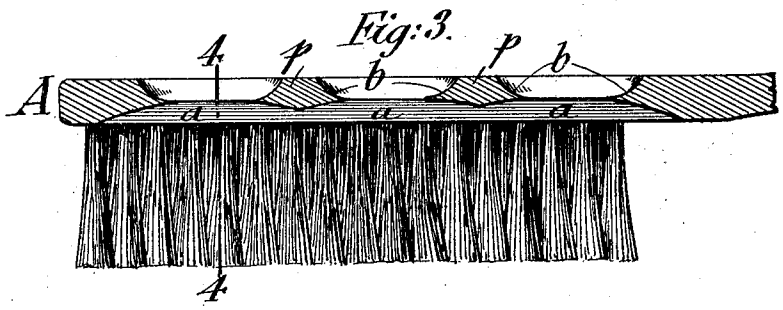
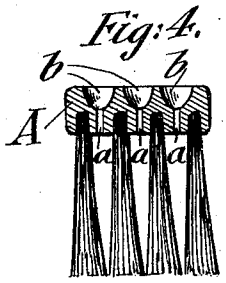


Fig: 4.



Witnesses

Henry J. Sukuties.

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By his Attorneys Gamewiles

UNITED STATES PATENT OFFICE.

ROBERT A. WHITE, OF MAPLEWOOD, NEW JERSEY, ASSIGNOR TO GEO. R. GIBSON CO., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

BRUSH.

No. 800,422. Specification of Letters Patent. Patented Sept. 26, 1905.

Application filed November 22, 1904. Serial No. 233,810.

To all whom it may concern:

Be it known that I, ROBERT A. WHITE, a citizen of the United States, residing in Maplewood, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Brushes, of which the following is a specification.

This invention relates to brushes of that class in which the back is provided with slits located between the rows of bristles for the purpose of permitting the water and air to pass freely through the brush-back to the bristles for ventilating and drying the same, as in tooth-brushes and the like, so that the brush may be readily cleaned and maintained in a clean condition; and for this purpose the invention consists in a brush embodying the novel features to be hereinafter described and finally pointed out in the claim.

In the accompanying drawings, illustrative of one embodiment of the invention, Figure 1 is a perspective view of my improved brush. Fig. 2 is a top view of the brush-back drawn on a larger scale; and Figs. 3 and 4 are respectively a vertical longitudinal section and a vertical transverse section on lines 3 3 and 4 4, Fig. 3.

Similar letters of reference indicate corresponding parts throughout the several views.

Referring to the drawings, A designates the back of my improved brush. The brush-back is provided with longitudinally-extending rows of narrow longitudinally-disposed slits *a*, which extend through the same between the rows of bristles, the adjacent slits being merged into each other upon the face of the brush-back, but separated from each other at the rear of the same by transverse solid portions *p*, as shown in Fig. 3. The sides of the longitudinal slits *a* are parallel, so as to allow sufficient space for the insertion of the tufts of bristles into the face of the brush-back, and the openings *a* are arranged in rows or sets which extend transversely of the brush-back, as shown in Fig. 1. Upon the rear of the brush-back the slits *a* are surrounded by outwardly-flaring recesses *b*, which form funnel or pocket like spaces for facilitating the passage of water when cleaning the brush to the slits and along the rows of bristles at the opposite side of the brush. The said pockets *b* also serve after the brush has been cleaned for permitting the air to pass through the slits, and thereby ventilate the bristles, so as to dry them more quickly than is possible in the ordinary brushes. By this disposition of the funnel-shaped pockets the longitudinal slits can be very narrow, so that the stock of the brush-back, through which the bristles are inserted in the usual manner, is not encroached upon to too great an extent and the strength of the brush-back is not impaired as a consequence.

Heretofore brushes with longitudinal slits or openings in the back have been found to break upon dropping the same, as the solid portions of the brush-back into which the bristles are inserted cannot resist the shocks incurred. This is obviated by the improved brush-back, in which the face only is longitudinally slitted, while the slits in the rear of the back do not merge into each other, but are separated by intermediate solid portions, by which the brush-body is strengthened at its rear part and is thereby less liable to accidental breakage while handling the same.

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

A brush, the back of which is provided with openings between the rows of bristles, the adjacent openings being merged into each other on the face of the back.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ROBERT A. WHITE.

Witnesses:
PAUL GOEPEL,
HENRY J. SUHRBIER.