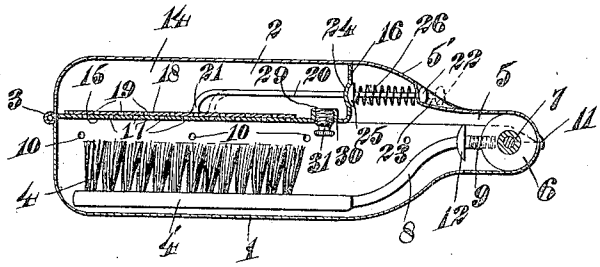
F. W. ARCHER & T. H. BATES.

COMBINATION TOOTH BRUSH AND POWDER HOLDER.

APPLICATION FILED MAR. 24, 1908.

902,796. Patented Nov. 3, 1908.

Fig. 1.



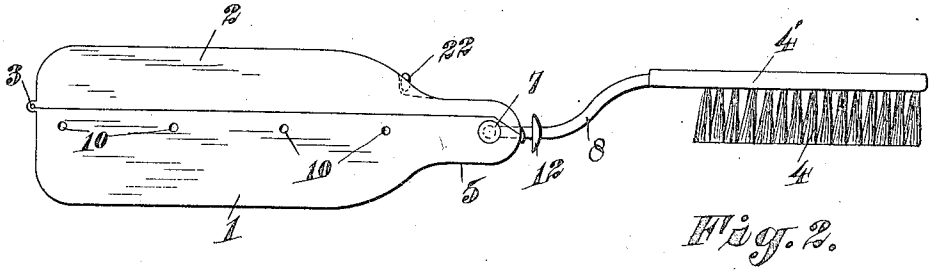


Fig. 2.

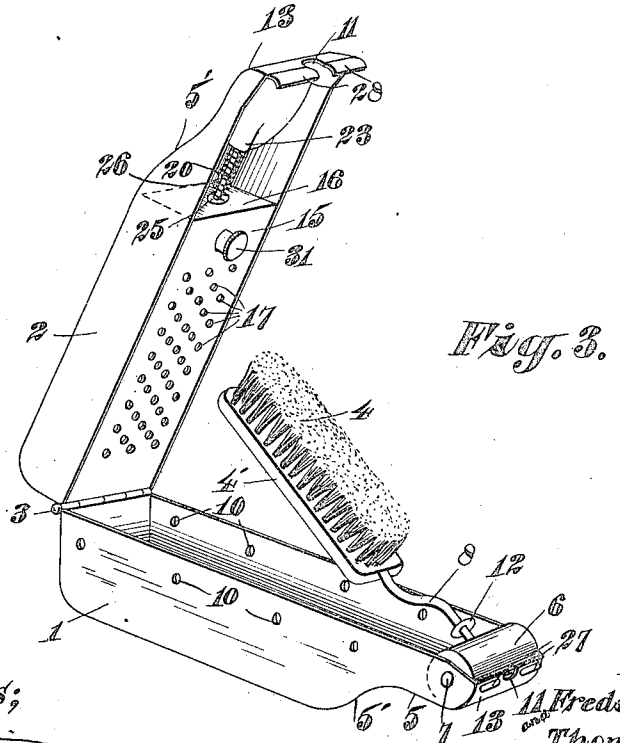


Fig. 3.

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UNITED STATES PATENT OFFICE.

FREDERICK W. ARCHER AND THOMAS H. BATES, OF CHICAGO, ILLINOIS.

COMBINATION TOOTH-BRUSH AND POWDER-HOLDER.

No. 902,796. Specification of Letters Patent. Patented Nov. 3, 1908.

Application filed March 24, 1908. Serial No. 422,984.

To all whom it may concern:

Be it known that we, FREDERICK W. ARCHER and THOMAS H. BATES, citizens of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in a Combination Tooth-Brush and Powder-Holder, of which the following is a specification.

Our invention relates to toilet articles and particularly to tooth brushes.

More especially our invention relates to a combination folding tooth brush and case equipped with a receptacle for tooth powder.

The object of our invention is to provide a folding tooth brush, the handle of which shall constitute a casing for the brush when in folded position.

A further object of our invention is to provide a combined folding tooth brush and case equipped with means for preventing the water from passing up the stem of the brush into the handle or case.

A further object of our invention is to provide a combination folding tooth brush and case and a receptacle for tooth powder arranged within the case.

A further object of our invention is to provide a device as mentioned which shall be light, strong and durable and which shall present a neat appearance both in folded and opened positions.

Other objects will appear hereinafter.

With these objects in view, our invention consists generally in a two part case, a tooth brush hingedly connected to the end of one part of the case, said part forming a receptacle for the tooth brush when in folded position, and the other part constituting a receptacle for tooth powder and a closure for the brush receptacle portion.

Our invention further consists in a two part case hingedly connected, one of the parts forming a receptacle for a tooth brush and the other part a powder holder, and a tooth brush hingedly connected to its respective part and adapted to fold thereinto, the case constituting a handle for the brush when in extended position.

Our invention further consists in various details of construction and arrangements of parts, all as will be hereinafter fully described and particularly pointed out in the claims.

Our invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which, Figure 1 is a longitudinal section of the device in folded position, Fig. 2 is a side elevation thereof in extended position, and Fig. 3 is a perspective view of the device partially open.

The casing comprises the two parts 1 and 2. These are elongated, hollow members, and are preferably hingedly connected and that at one end as at 3. The part 1 is preferably of greater depth than the part 2, and constitutes a receptacle for the brush when in folded position, and the closed case constitutes a handle for the brush when in extended position.

4 indicates the brush which is hingedly connected to its respective part 1 at the opposite end from the hinge 3. The case formed of the parts 1 and 2 may be of uniform cross section throughout, but we prefer to reduce it somewhat in depth at the end to which the brush is connected, as indicated at 5. Rotatably mounted at the end of the portion 5 of the case member 1 is a cylindrical member 6 which fits snugly in the end of the case as shown in Fig. 1. The cylinder 6 is rotatably mounted upon a transverse pin or axis 7, and it is to said cylinder that the brush is attached by a stem 8. The brush is preferably detachably connected to the member 6 and to this end the stem 8 is threaded as at 9 into said member. The stem 8 is curved as indicated, in order that the back 4′ of the brush may rest in the bottom of the case portion 1.

10 indicate a plurality of small holes or apertures in the sides of the portion 1 which serve as ventilators for the closed case. The ends of the case portion 1 and 2 are provided with notches or apertures 11, through which the stem 8 extends when the brush is in operative position.

12 indicates a disk or collar formed on the stem 8 and which constitutes a drip guard to prevent the water from running along the stem into the casing. It should be noted that the ends of the casing members are shaped to conform to the cylindrical member 6 which fits snugly therein, hence when the device is in closed position, the cylinder closes the aperture 11.

The portion 2 constitutes a closure for the brush holding portion of the case and also a receptacle for tooth powder. To this end a powder holding compartment 14 is formed

by a longitudinal partition 15 and a transverse partition 16, the latter being arranged adjacent to the curved wall 5′ connecting the body portion of the case with the reduced extension 5. The longitudinal plate 15 is perforated as at 17 and is parallel with the face of the brush when in closed position. The perforations are normally closed by a plate 18 lying against the plate 15 and preferably within the compartment 14. The plate 18 is perforated as at 19 to correspond with the perforations 17. When the plate is in one position the perforations register and powder may be shaken from the compartment onto the brush, while in normal position the plate 18 closes the perforations in the plate 15.

20 indicates a small rod extending longitudinally of the device through the walls 5′ and 16 and connected at its inner end 21 to the plate 18. Upon the outer end of the rod is a head or knob 22 which normally rests in an indentation or countersink 23 in the wall 5′. By drawing the head 22 outwardly as indicated in dotted lines in Fig. 1 the perforations 17 are opened. The portion of the wall 16 immediately surrounding the stem 20 is indented or countersunk as at 24, and the stem or rod 20 is provided with a disk or collar 25 having a convex face adapted to enter the countersink 24. A spring 26 is interposed between the collar 25 and the wall 5′ and normally holds the disk or collar in the countersink 24 which prevents the powder from sifting from the compartment at this point. The spring also normally holds the plate 18 in position to close the perforations 17. To hold the case in closed position the ends of the portion 1 each side of the notch or aperture 11 is provided with lugs or ribs 27 stamped out of the metal and the portion 2 is provided with concave portions 28 to engage therewith. The plate 15 is provided with an aperture 29 for filling the receptacle 14. This is defined by a bushing 30 closed by a plug 31.

Having described our invention what we claim as new and desire to secure by Letters Patent, is:

1. In a device of the class described a two part case, said parts being relatively movable to open and close the case in combination with a tooth brush hingedly connected to one of said parts and adapted to fold thereinto, and a receptacle for tooth powder formed in the other part, said case being adapted to entirely inclose said brush when the device is folded, substantially as described.

2. In a device of the class described an elongated two part case, said parts being hingedly connected at one end, in combination with a tooth brush hingedly connected to the opposite end of one of said parts from said hinge and adapted to fold thereinto, and a receptacle for tooth powder formed in the other part, substantially as described.

3. In a device of the class described an elongated two part case, said parts being hingedly connected at one end in combination with a tooth brush hingedly connected to the opposite end of one of said parts from said hinge and adapted to fold thereinto, and a receptacle for tooth powder formed in the other part, said receptacle being defined by a perforated plate parallel with the face of the brush when in closed position, substantially as described.

4. In a device of the class described a two part case said parts being hingedly connected at one end in combination with a tooth brush hingedly connected to one of said parts at the end remote from the hinge and adapted to fold thereinto when in closed position, said case when in closed position with the brush extended forming a handle to said brush, and a disk on the stem of said brush, substantially as described.

5. In a device of the class described a two part case, said parts being relatively movable to open and close the case, in combination with a tooth brush hingedly connected to one of said parts and adapted to fold thereinto and said case being adapted to entirely inclose said brush, a receptacle for tooth powder formed in the other part and defined by a perforated plate parallel with the face of the brush when in closed position, means for normally closing the perforations in said plate and means for opening the same from the outside of the case, substantially as described.

6. In a device of the class described a two part case hingedly connected in combination with a tooth brush hingedly connected to one of said parts and adapted to fold thereinto, a receptacle for tooth powder formed in the other part and defined by a perforated plate parallel with the face of the brush when in closed position and a transverse plate, a perforated plate arranged within said receptacle and adapted in one position to close the perforations in said receptacle and in another position to open the same, a rod connected to second said plate and extending through said transverse plate and the outer wall of the respective part of the casing, means for normally holding said plates in closed position, and means on said rod adapted to engage said transverse plate to prevent powder from sifting therethrough, substantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

FREDERICK W. ARCHER.
THOMAS H. BATES.

Witnesses:
HELEN F. LILLIS,
ARTHUR O. OLSON.