June 8, 1926. 1,587,753

W. BRETSNYDER

BATH BRUSH

Filed Nov. 20, 1922

Fig. 1

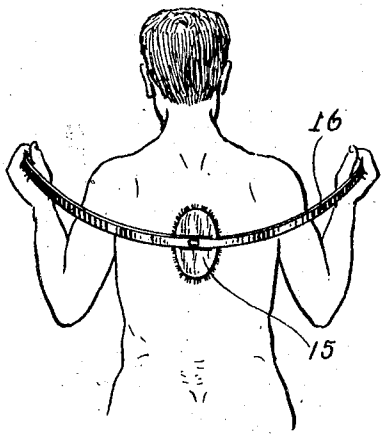



Fig. 2

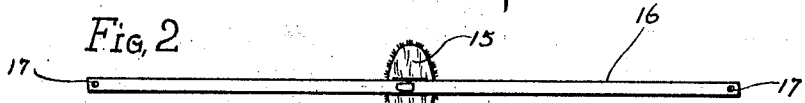



Fig. 3

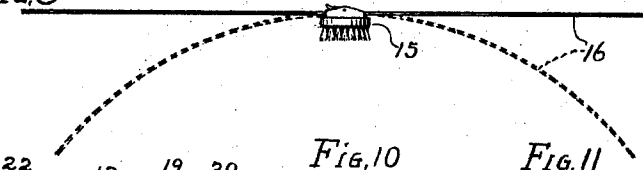



Fig. 4

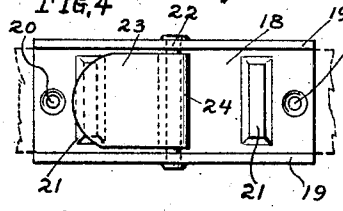



Fig. 10

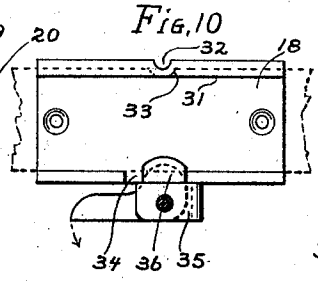



Fig. 11

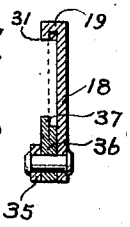



Fig. 5

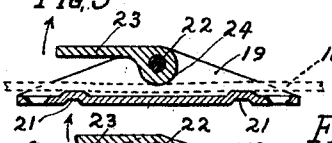



Fig. 6

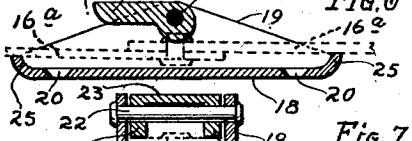



Fig. 7

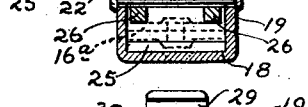



Fig. 8

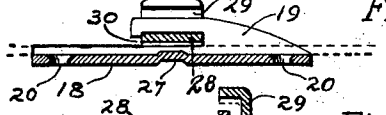



Fig. 9

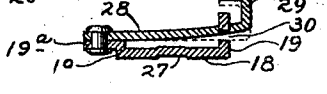
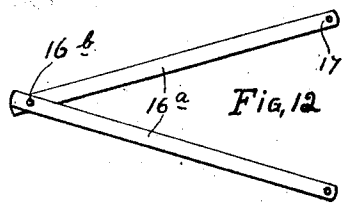



Fig. 12




INVENTOR.
WILLIAM BRETSNYDER
BY
Benjamin, Cookman & Lundy
ATTORNEYS

Patented June 8, 1926. 1,587,753

# UNITED STATES PATENT OFFICE.

WILLIAM BRETSNYDER, OF CHICAGO, ILLINOIS.

## BATH BRUSH.

Application filed November 20, 1922. Serial No. 601,978.

My invention relates to brushes, and more particularly to bath brushes and means attached thereto whereby the operation of the bath brush is facilitated.

One of the objects of my invention is to provide a handle member that is yielding or springy so that the operator may flex the same while in use for the purpose of conveniently manipulating the brush upon his or her back. Another object is the provision of suitable means attached to the back of the brush whereby the handle or operating element may be readily attached thereto and firmly held in position so that said member may be removed whenever desired by a simple operation. Other objects will be apparent after an understanding of my invention is had, and I prefer to carry out the divers objects in substantially the manner hereinafter described, reference being had to the accompanying drawings that form a part of this specification.

In the drawings:

Fig. 1 represents a view of my invention showing the same in use with the handle flexed, the joint in the center of the handle being covered by the latch.

Fig. 2 is a top plan view of my invention, as shown in Fig. 1.

Fig. 3 is an end elevation of the brush and showing a longitudinal edge of the handle, the joint in the center of the handle being covered as in Fig. 1.

Fig. 4 is a top plan of a clamp device for connecting the handle to the brush.

Fig. 5 is a longitudinal section of the structure shown in Fig. 4.

Figs. 6 to 11 are views of modified structures for clamping the handle to the brush.

Fig. 12 is a plan of the handle partially folded.

Referring to the drawings, particularly Figs. 1 to 5, it will be seen the brush comprises a back 15 which is usually of wood, or the like, and formed of oval shape, from one of the faces of which back the bristles or hair project, and upon the opposite face of which I prefer to secure the attaching device for removably mounting the handle.

The handle consists of metal strips 16 jointed, to fold when not in use as shown in detail in Figs. 4, 7 and 12, said handle being, say, three to four feet or more in length, is flexible and yielding, such as spring metal of a suitable gauge. When attached to the brush the whole structure may be operated in the manner illustrated in Fig. 1 by flexing handle 16 transversely into a segmental shape and the ends of the handle grasped by the hands so that the person will not have to distort his or her anatomy or twist into awkward positions to operate the brush upon portions of the back and other members of the body. The ends of the handle are provided with apertures 17 so that when the structure is not in use it may be conveniently hung upon a nail, hook or the like.

The means for securing the handle upon the brush is in the nature of a holder or carrier and comprises a plate 18 of rectangular shape having lateral upstanding flanges 19 along the opposite longitudinal edges thereof, and is provided adjacent its ends with screw holes 20 for attaching the holder or carrier to the back of the brush. Intermediate its ends plate 18 is provided with projections or ridges 21 extending between flanges 19, and, as seen in Fig. 5, flanges 19 are of triangular shape and are bored adjacent the apex thereof to receive a transverse pin 22 upon which a clamping pawl is mounted. This pawl has a finger piece 23 and a cam shaped end portion 24 that is bored longitudinally to receive pin 22 so that the eccentric portion of the cam is positioned intermediate ridges 21.

The handle 16, being a flat strip, is inserted between side flanges 19 of the plate and rests with one face against ridges 21 with the finger piece 23 in an upward position. When the handle has been properly located the finger piece is moved down to the position shown in Figs. 4 and 5, whereupon the cam portion 24 bears upon handle strip 16 between ridges 21 and causes a slight flexing thereof to lock the latter upon the brush.

In Figs. 6 and 7 holder plate 18 is provided with the side flanges 19, but in lieu of the transverse ridges 21, I have provided the ends of the plate with upwardly curved flanges 25. The clamp member, which is mounted upon pin 22, is provided with spaced cams 26 so as to engage the longitudinal edges of the flexible handle $16^a$ and thereby straddles the connecting element of the handle, which latter, as shown in Fig. 12, is made in two pieces for conveniently folding the same, and is secured together by a pivotal pin or rivet $16^b$. This is for the purpose of permitting the handle to be folded to reduce its length whenever it is desired

to store or pack the same in a restricted space.

In Figs. 8 and 9, the holder plate 18 is provided in its central portion with an embossment 27, and one of the side flanges 19 is provided with a horizontal lateral extension 19ª upon which is pivotally mounted a yielding, swinging latch bar 28. The opposite end of the latch bar is provided with a lateral extension 29 that permits bar 28 being moved into an open slot 30 formed longitudinally in the adjacent side flange and which slot is so constructed as to removably retain the latch bar therein and permit it to bear upon the handle and press it down towards embossment 27.

In Figs. 10 and 11, holder plate 18 is provided with the longitudinal side flanges 19, one of which is provided with an overhanging portion 31, and below this overhanging portion this flange is provided with an inwardly extending embossment 32, while handle strip 16 is provided with a correspondingly shaped notch 33. Opposite embossment 32 the other flange has a bearing bracket 35 extending therefrom in which a bell-crank cam 36 is pivotally mounted, and which has an overhanging lip 37 to fit upon the upper face of handle strip 16 when in locked position for preventing accidental sidewise movement or displacement of the handle.

It is obvious that modifications may be made without departing from the scope of the appended claims, and I desire it understood that such changes are contemplated by me.

What I claim is:

1. A device of the kind specified comprising a brush having a suitable back and a handle removably connected intermediate its ends to said back; said handle comprising a bar of elastic material of substantially greater width than thickness and flexible only in the plane of its least thickness.

2. A device of the kind described comprising a brush having a suitable back, a holder plate mounted thereon, a cam device pivotally mounted upon said holder plate, and a handle of relatively thin spring metal removably secured in said device by said cam member.

3. A device of the kind described comprising a brush having a suitable back, a plate secured to said back having a channel therethrough, a handle consisting of lengths of elastic material pivoted together and insertable into either end of said channeled plate, and clamping means carried by the plate for removably maintaining said handle on said plate.

4. A device of the kind described comprising a brush having a suitable back, a channeled plate secured to said back, a handle of resilient material positioned in said channeled plate, and a cam pivotally carried by said plate for removably maintaining said handle on said plate.

5. A device of the kind described comprising a brush having a suitable back, a plate secured to said back, spaced projections on said plate, a clamping element above the face of said plate intermediate said projections, and a flexible handle resting upon said projections and engaged by said clamping element.

6. A device of the kind described comprising a brush having a suitable back, a plate secured to said back, spaced projections on said plate, a cam pivotally mounted upon said plate intermediate said projections, and a flexible handle resting upon said projections and engaged upon its opposite face by said cam whereby said handle is slightly flexed intermediate said projections.

Signed at Chicago, county of Cook and State of Illinois, this 14th day of November, 1922.

WILLIAM BRETSNYDER.