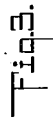


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UNITED STATES PATENT OFFICE.

MATTHEW P. BENSON, OF TROY, AND MILTON M. WIENER, OF NEW YORK, N. Y.

BRUSH-HANGER AND PAD-REMOVER.

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To all whom it may concern:

Be it known that we, MATTHEW P. BENSON and MILTON M. WIENER, citizens of the United States, and residents, respectively, of Troy, in the county of Rensselaer and State of New York, and the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Brush-Hanger and Pad-Remover, of which the following is a full, clear, and exact description.

This invention relates to toilet articles and has particular reference to hair brushes or the like.

Among the objects of the invention is to provide a hair brush comprising a rigid back with integral handle and a flexible removable pad carrying the bristles, the pad being removable for the purpose of cleansing, sterilization, or other purposes, our specific invention involving a peculiar means for ejecting the pad from the brush back.

With the foregoing and other objects in view the invention consists in the arrangement and combination of parts hereinafter described and claimed, and while the invention is not restricted to the exact details of construction disclosed or suggested herein, still for the purpose of illustrating a practical embodiment thereof reference is had to the accompanying drawings, in which like reference characters designate the same parts in the several views, and in which—

Figure 1 is a vertical longitudinal section of our brush complete.

Fig. 2 is a plan view of the back and handle, a portion of the flange being broken away.

Fig. 3 is a vertical transverse section on the line 3—3 of Fig. 1.

Referring now more specifically to the drawings we show a brush comprising a back 10 with rigid handle 11 formed as an integral structure and having on the underside of the back an undercut flange 12 beneath which is removably fitted a flexible pad 13 carrying bristles 14. The parts thus far described are or may be of a well known or conventional construction and we do not claim the same *per se* as our invention. Pads of this character are usually made of rubber which adapts them to be snapped in and out of the cavity within the back beneath the flange 12 so that in order to cleanse or

sterilize the pad and bristles the back need not be subjected to the sterilizing medium.

Ordinarily to remove a pad of this nature it is necessary for the operator to grasp the bristles and pull upon the same for the purpose of drawing the pad out of place. This operation is not convenient and it is apt to seriously damage the bristles. In order to overcome this difficulty and render the pad easily and safely removable we provide an ejector lying mainly within the space between the pad and back but having a portion extending outward beyond the back constituting a finger piece whereby upon manipulation of the ejector the pad will be thrown or ejected from its seat, and without any possible danger of damage to the pad.

As shown herein the ejector comprises a rotary member 16 journaled at 17 in the end of the back remote from the handle. Said member 16 is in the nature of a straight bar or shaft and is provided on the outside of the back with a loop or ring shaped finger piece 18 whereby the member 16 may be rotated around the axis of the bearing 17. On its inner end within the cavity between the pad and the back the member 16 is provided with an arm 19 projecting at an angle to the axis of the member 16 so that its free end lies normally close or adjacent to the meeting line between the edge of the pad and the back beneath the flange 12 at one side of the brush. Said free end of the arm 19 is preferably bowed or convexed toward the pad as indicated at 19^a.

In normal position as shown in Fig. 3 the curved or convexed portion of the arm bears against the inner surface of the pad so that there is no material lost motion between the arm and the pad and moreover such contact serves to hold the ejector with a moderate degree of firmness in the position indicated in Figs. 2 and 3. By this construction the brush will resist a moderate strain upon the ejector outward axially of the shaft 16 whereby the finger piece 16 is adapted immediately and naturally for service as a hanger for the brush adapting it to be suspended from a hook, nail, or the like, rendering it unnecessary for a screw-eye or the like to be attached to the brush for this purpose.

The operation of the ejector will be understood from the foregoing description of the

mechanism as follows: With the brush held by its handle in one hand the operator will grasp the finger piece 18 between his thumb and finger of the other hand and rotate the
5 ejector around the axis of the bearing 17 in a direction to throw the arm 19 away from the back, causing the convex portion 19^a thereof to bear outward slidably along the inner surface of the pad as shown by the
10 arrow on Fig. 3. The length of the arm is such that this swinging thereof will throw the pad out from beneath the flange. The pad 13 may be notched slightly at 13^a to accommodate the ejector or to insure the
15 proper seating of the pad beneath the flange in practice.

We claim:

1. The combination in a hair brush with a back having an undercut flange and a flexible pad seated beneath said flange, of a hand
20 operated ejector carried by the brush for the

removal of the pad by pressure against the inner surface thereof.

2. In a hair brush, the combination with a rigid back having an undercut flange and
25 a flexible pad seated beneath the flange and removable therefrom, of an ejector for removing the pad from the back by pressure against the inner surface of the pad, said ejector comprising a rotary member jour-
30 naled in the back and having an angularly disposed arm to bear against the pad when rotated.

3. The herein described ejector for removing a flexible pad from a brush back, said
35 ejector comprising a main straight rotatable portion having at one end a loop shaped finger piece, and at the other end an angularly disposed arm terminating in a convex portion.

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