M. B. BEHRMAN.

LATHER BRUSH.

APPLICATION FILED JULY 22, 1919.

1,353,984. Patented Sept. 28, 1920.

Fig. 1.

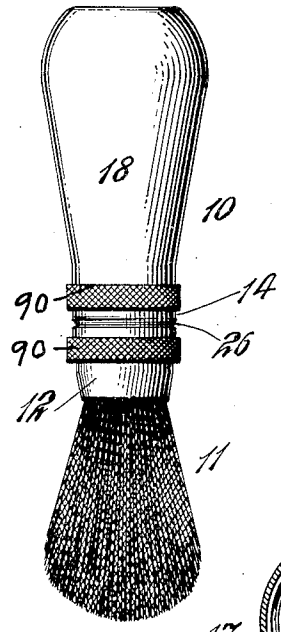


Fig. 2.

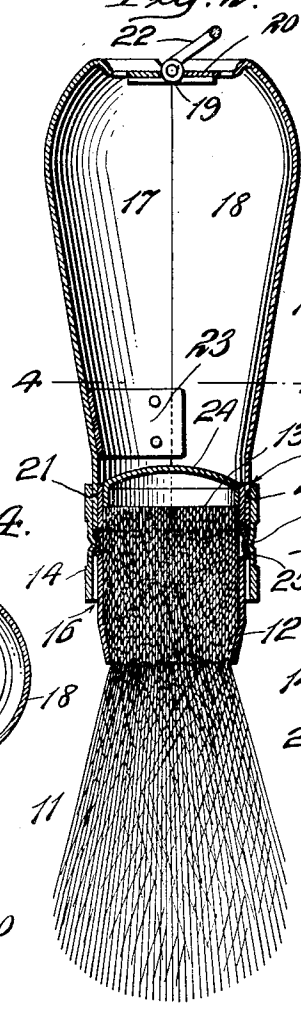


Fig. 4.

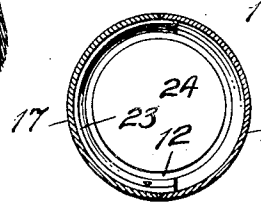


Fig. 7.

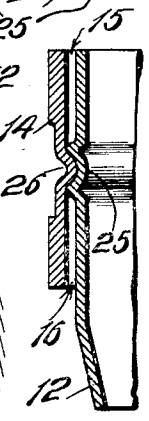


Fig. 3.

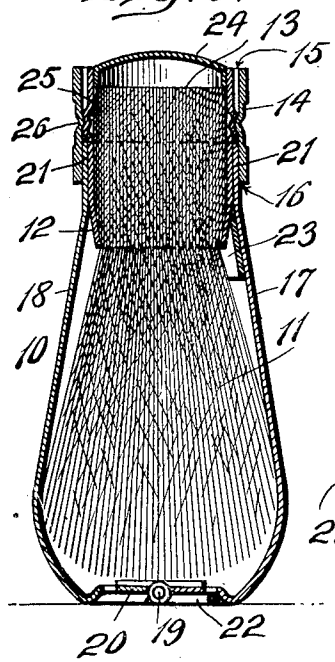


Fig. 5.

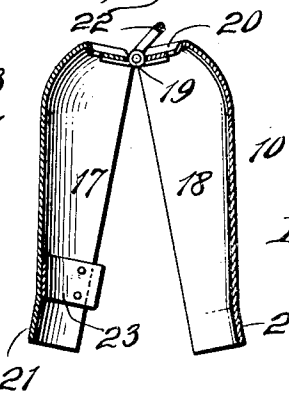
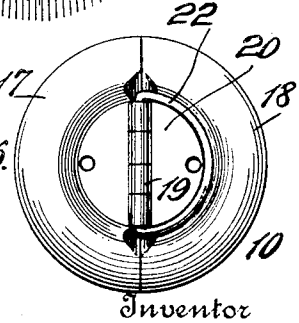


Fig. 6.



Inventor

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By his Attorney

Chas. C. Gill

UNITED STATES PATENT OFFICE.

MARCUS B. BEHRMAN, OF TOMPKINSVILLE, NEW YORK, ASSIGNOR TO AMERICAN SAFETY RAZOR COMPANY, OF BROOKLYN, NEW YORK, A CORPORATION OF NEW YORK.

LATHER-BRUSH.

1,353,984. Specification of Letters Patent. Patented Sept. 28, 1920.

Application filed July 22, 1919. Serial No. 312,526.

To all whom it may concern:

Be it known that I, MARCUS B. BEHRMAN, a citizen of the United States, and a resident of Tompkinsville, in the county of Richmond and State of New York, have invented certain new and useful Improvements in Lather-Brushes, of which the following is a specification.

My invention pertains more particularly to a lather brush comprising a handle and bristles, the knot of the bristles being held by suitable inner and outer ferrules and the bristles being adapted to be concealed within the handle of the brush or exposed outwardly therefrom for use, said handle being in hinged together sections adapted to be opened outwardly to receive the bristles or to permit the same to be removed from the handle, and said outer ferrule being adapted to lock the sections of the handle in closed position, both when the bristles are within the handle and when said bristles are in exposed position.

The object of the invention is to produce a very durable and convenient construction of lather brush in which the handle is formed of hinged parts and adapted to receive the bristles of the brush and in which the sections of the handle may be conveniently locked together between the inner and outer ferrules of the brush, both when the bristles are within the handle and when extended outwardly for use, it being the purpose that the bristles shall be concealed within the handle when not in use.

The invention will be fully understood from the detailed description hereinafter presented, reference being had to the accompanying drawings, in which:

Figure 1 is a side elevation of a lather brush embodying the invention;

Fig. 2 is a central vertical section, on a larger scale, of the same;

Fig. 3 is a corresponding view, but showing the bristles of the brush as inclosed within the handle;

Fig. 4 is a transverse section through the handle of the brush taken on the dotted line 4—4 of Fig. 2;

Fig. 5 is a detached vertical section through the handle of the brush, the sections of the handle being shown as opened outwardly from each other;

Fig. 6 is a top end view of the brush on about the scale shown in Fig. 2, and

Fig. 7 is a vertical section, on an enlarged scale, through a portion of the inner and outer ferrules holding the knot of the brush.

In the drawings, 10 designates the handle of the brush, 11 the bunch of bristles, 12 the inner ferrule which receives the knot end 13 of said bunch of bristles, and 14 the outer ferrule carried by said inner ferrule and which is locked thereto, as shown in Fig. 7, and at its upper and lower portions spaced therefrom by annular spaces 15, 16, respectively.

The handle 10 is formed of two corresponding semi-cylindrical sections 17, 18 which are longitudinal and match each other and are hinged together at the upper end of the handle by means of a hinge 19. I number the upper end of the handle, as a whole, 20, and it is in the form of two half disks which are integral with the longitudinal handle sections 17, 18 and connected by the hinge 19. The upper end 20 of the handle is countersunk so that, when desired, the brush may be stood on end, the hinge 19 being within the recess formed by the countersinking of said end 20. The handle sections 17, 18 are preferably enlarged outwardly at the outer end of the handle and then converge inwardly toward their lower end where said sections are formed with parallel cylindrical portions 21 which, at proper times, are entered within the recess 15 or the recess 16 between the outer ferrule 14 and the inner ferrule 12. I preferably make the handle 10 of approximately pear shape for the accommodation of the bunch of bristles 11, but I do not wish to be limited to the special outline of the handle 10 so long as said handle performs the duties required of it in accordance with my invention. The sections 17, 18 of the handle 10 are preferably of sheet metal, such as nickel plated brass, silver or gold, and by preference the pintle of the hinge 19 and which I number 22, will be of wire with its ends inserted through the knuckles of the hinge to form the pintle and at its middle portion fashioned into a loop which may be turned upwardly when desired to afford means for hanging the brush on a hook or the like. The sections 17, 18 of the handle 10 may be turned outwardly from each other, as shown in Fig. 5, and closed together, as shown in Fig. 2, and in order that the sections 17, 18 may always match

at their vertical adjacent edges and be maintained in matching relation, I provide one of the sections, in this instance 17, with a substantially semi-circular band 23 whose ends project beyond the vertical inner edges of said section, as shown in Fig. 2, so that as the section 18 is closed against the section 17, said ends will extend into the section 18 and maintain said section in due relation to the section 17. The band 23 is in near relation to the inner end of the handle 10 and assures the matching of the handle sections 17, 18 and the prevention when said sections are closed together of one section at its inner end being moved laterally out of proper relation to the other section.

The bunch of bristles 11 has, at its inner end, the knot 13 of usual formation, the bristles being held together by any suitable cement or cementitious material, and said knot 13 is held within a tightly fitting metallic ferrule 12, which tapers inwardly at its lower portions, as shown in Figs. 3 and 7. The ferrule 12 extends slightly above the knot 13, as shown in Fig. 3, and at its upper end said ferrule is closed by a metallic cap 24 which is preferably of dome shape and has a depending annular flange which fits tightly within the upper end of the ferrule 12, as shown in Figs. 2 and 3. The cap 24 closes the end of the ferrule 12 and imparts a desirable finish to that portion of the brush carrying the bunch of bristles 11, and in addition the annular flange of said cap 24 engages the upper annular outer edge of the knot 13, as shown in Fig. 3, and serves to aid in binding the knot against the inwardly tapered lower portions of the ferrule 12, thereby aiding in securing the immovability of said knot 13. The cap 24 may be driven into the upper end of the ferrule 12 with a very tight wedging fit or it may be secured within said upper end of the ferrule by brazing or otherwise. In addition to its other functions the cap 24 prevents the entrance of moisture to the knot 13 of the bunch of bristles.

The ferrule 12 is annularly grooved, as at 25, for the purpose of affording means for interlocking said ferrule with the outer ferrule 14, which is a cylindrical band inwardly grooved, as at 26, to form an annular bead adapted to be forced upon and interlocked with the groove 25 of the ferrule 12, as shown on an enlarged scale in Fig. 7. The ferrule 14 above and below its annular middle portion is spaced from the ferrule 12, as indicated at 15, 16, and said spaces 15, 16, as occasion may require, receive the cylindrical sections 21 of the handle 10, as shown in Figs. 2 and 3.

When the brush is not in use, as when in a dress-suit case or elsewhere, the bunch of bristles may be within the handle 10, as I illustrate in Fig. 3, and at this time the sections of the handle 10 will be held in closed position by the insertion of the lower end of the ferrule 14 over the sections 21 of the handle, as shown in Fig. 3, the sections 21 of the handle then being closely confined within the space 16 created between the ferrules 12, 14. When the brush is put into use, the ferrule 14 will be pulled outwardly, with the ferrule 12 and bunch of bristles 11, until said ferrule 14 releases the inner end of the handle sections 17, 18, and thereupon said handle sections will be opened outwardly so as to permit the convenient withdrawal of the bunch of bristles. Immediately thereafter the handle sections 17, 18 will be closed together, and the ferrules 12, 14 will again be applied to the handle, at this time however the sections 21 of the handle will be forced into the annular space 15 between the ferrule 14 and the ferrule 12, as shown in Fig. 2, the bunch of bristles then being exposed ready for use and the handle sections being locked together by the ferrules 12, 14.

The handle, although in sections, may be handled as a unit, and the bunch of bristles with the ferrules 12, 14 may be also handled as a unit, and therefore the brush of my invention comprises separable members and is not complicated with the presence of several parts to be dismembered and put together. It will be understood that after a brush has been given its operative position shown in Fig. 2 and the use of the brush has ceased, the bunch of bristles 11 may be restored to the handle by then withdrawing the ferrules from said handle, then opening the sections of the handle to receive the bunch of bristles between said sections and closing the sections and then forcing the ferrule 14 downwardly and upon the sections 21 of the handle so that said sections 21 may be confined within the annular space 16 between the ferrules 12, 14, the brush then having been restored to the condition in which it is illustrated in Fig. 3.

The outer ferrule 14 has knurled or roughened ring portions 90 at its upper and lower edges, as shown in Fig. 1, and these portions facilitate the handling of the bunch of bristles with its ferrules and the application of the ferrules to the cylindrical portions 21 of the handle and become important because the ferrule 14 must tightly fit the cylindrical sections 21 of the handle whether the bunch of bristles is to be extended from the handle, as shown in Fig. 2, or confined within the handle, as shown in Fig. 3.

What I claim as my invention and desire to secure by Letters-Patent, is:

1. A brush of the character described comprising a bunch of bristles, a ferrule engaging the knot of the bunch, an outer ferrule secured thereto, and at its upper and

lower edges spaced therefrom to afford annular recesses, and a hollow handle comprising longitudinal sections adapted to be opened one from the other, and at their inner ends formed with cylindrical portions adapted to enter the aforesaid annular recesses, the bunch, with its ferrules, being detachable from the handle and said bunch being adapted to be confined within the handle or arranged to extend therefrom, said outer ferrule in both positions of the bunch serving to bind the sections of the handle in closed relation.

2. A brush of the character described comprising a bunch of bristles, a ferrule engaging the knot of the bunch, a cap closing the outer end of and affording a finished end for said ferrule over the end of the knot and having an annular flange engaging the end of said knot, an outer ferrule secured to the aforesaid ferrule and at its upper and lower edges spaced therefrom to afford annular recesses, and a hollow handle comprising separable longitudinal sections having at their inner ends cylindrical portions adapted to enter the aforesaid annular recesses, the bunch with its ferrules being detachable from the handle and said bunch being adapted to be confined within the handle or arranged to extend therefrom, said outer ferrule in both positions of the bunch serving to bind the sections of the handle in closed relation.

Signed at New York city, in the county of New York, and State of New York, this 21st day of July A. D. 1919.

MARCUS B. BEHRMAN.

Witnesses:

ARTHUR MARION,

CHAS. C. GILL.