

J. SCHREINER.

BRUSH.

(Application filed Jan. 23, 1900.)

(No Model.)

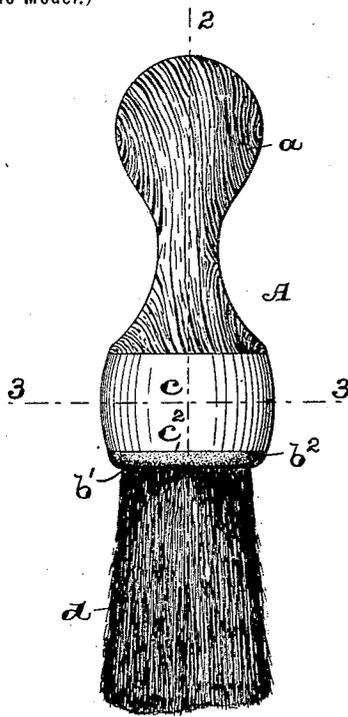


FIG. 1

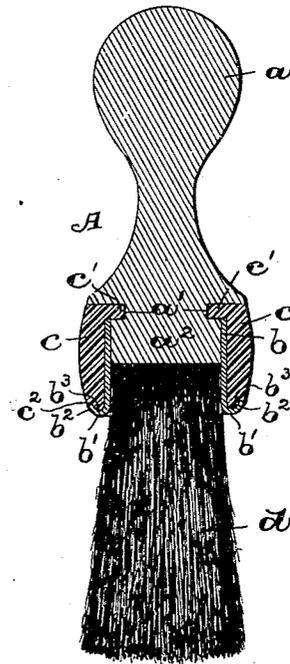


FIG. 2

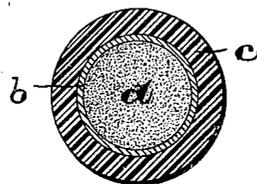


FIG. 3

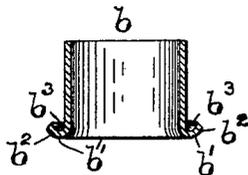


FIG. 4

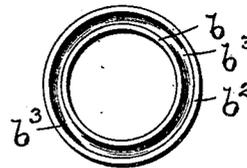


FIG. 5

WITNESSES:

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*Marcy Z. Fredell*

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# UNITED STATES PATENT OFFICE.

JOSEPH SCHREINER, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE RUBBER AND CELLULOID HARNESS TRIMMING CO., OF NEW JERSEY.

## BRUSH.

SPECIFICATION forming part of Letters Patent No. 681,931, dated September 3, 1901.

Application filed January 23, 1900. Serial No. 2,425. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH SCHREINER, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Brushes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in brushes, and more particularly to that class of brushes used by barbers and others for the application of a soap lather to the face of a person before shaving.

Shaving-brushes have been provided with an outer ferrule, of hard rubber or other similar material, which surrounds the upper portion of the bunch or knot of the bristles where they are attached to the butt of a handle, and usually a metal ring has been employed, which ring was arranged around the bunch or knot of the bristles and within the said ferrule, of hard rubber or other similar material. It has been found in practice that in shaving-brushes with constant use the moisture from the soap and water expands the bristles to such an extent that the bunch or knot which is arranged in the ferrule becomes sufficiently enlarged or expanded in a great many instances to cause the hard-rubber or similar ferrule to split or break thereby rendering the brush useless and unsightly. To obviate this difficulty, a ring of metal has been placed around the knot or bunch of bristles to properly confine the knot or bunch in its original shape whether wet or dry, said metal ring then being surrounded by the ferrule, of hard rubber or other similar material. Whereas this construction has this useful effect that the knot or bunch of bristles is for a time retained in its original shape, it has been found in practice that some of the soap liquor will force itself between the hard-rubber outer ferrule and the said metal ring, and the superfluous alkalies, as sodium and sulfur, employed in the manufacture of the soap will combine with the iron or steel ring and form a rust, which becomes lodged between the hard-rubber ferrule and the metal ring and

will soon cause the hard-rubber ring to split, while the metal ring will become sufficiently weakened by the continuance of such chemical action as to no longer confine the knot or bunch of bristles in its original shape, and the expansion of such knot or bunch will soon render the brush useless.

To overcome these serious objections is the object of my present invention, and this is accomplished by confining the knot or bunch of bristles in a ring or band, of zinc or other non-corrosive metal which will not be affected by any chemical action from the alkalies or acids in the soap, and, furthermore, to provide a metallic knot or bunch retaining and confining ring having a marginal bead or outwardly and upwardly projecting edge into which the lower marginal edge of the ferrule, of hard rubber or other similar material, is fitted to prevent the lower marginal edge of the hard-rubber ferrule from jutting against the bristles; also, to provide a neat and simply-constructed, stronger, and more serviceable brush.

The invention therefore consists in the novel construction of brush hereinafter fully set forth, having a handle, a hard rubber or other similarly-made ferrule, and metal ring of zinc or other non-corrosive metal secured to the lower end portion of said handle, having the knot or bunch of the bristles fully retained and confined in said ring and a means surrounding the lower marginal edge of said ring extending over and around the lower marginal edge of the said hard rubber or other similar ferrule for the protection of the said edge by providing greater rigidity of the parts and to provide a neater appearance of the whole brush.

My invention consists, furthermore, in such other novel arrangements and combination of parts and the details of the construction thereof, all of which will be fully described in the accompanying specification, and finally embodied in the clauses of the claim.

The invention is clearly illustrated in the accompanying drawings, in which—

Figure 1 is a side view of a brush made according to the principles of my invention. Fig. 2 is a vertical section of the same, said section being taken on line 2 2 in said Fig. 1; and Fig. 3 is a horizontal section of the brush, taken on line 3 3 in said Fig. 1. Fig.

4 is a vertical section of a ring of a non-corrosive metal to be used in connection with the present construction of brush, illustrating, in connection with said ring, the arrangement of a marginal bead or projection employed as a protecting means for the exposed edge of the outer ferrule of the brush; and Fig. 5 is a top or plan view of said ring.

Similar letters of reference are employed in all of the said above-described views to indicate corresponding parts.

In said drawings, A indicates the complete brush, which consists, essentially, of a handle *a* of any suitable and desirable configuration and preferably made of wood, but other suitable material may be employed. The said handle A is usually made with an annular groove *a'* and a butt-end *a<sup>2</sup>*, on which end I have fitted a metal ring *b*, preferably of zinc or other suitable metal (non-corrosive) which is not likely to become disintegrated by action from the alkalis or acids contained in soap, said ring *b* having its lower marginal edge *b'* (see Fig. 4) turned outwardly and upwardly to provide a marginal bead or projection *b<sup>2</sup>*, which is preferably formed in such a manner that a groove *b<sup>3</sup>* will be provided around the lower marginal edge or outer cylindrical surface of the said ring *b*, substantially as illustrated in the several figures of the drawings. Surrounding the outer cylindrical surface of said ring *b* and having an inwardly-extending ring-shaped projection or shoulder *c'*, arranged in the annular groove *a'* of the handle *a* of the brush, is a ferrule *c*, of hard rubber or other similar material, which is secured in position during the process of assembling the brush portion or bristles *d* with the other parts in any one of the usual and well-known manners.

The usual manner of securing the knot or bunch of bristles in the ring *b* and against the lower surface of the butt *a<sup>2</sup>* of the handle *a* is to saturate the one end of the bunch or knot with liquid rubber, placing this end of the bunch in the ring *b* and against the end of the butt *a<sup>2</sup>* of the handle *a*, and then curing or vulcanizing this portion of the brush part *d* and securing it in place against the butt *a<sup>2</sup>* of the handle *a*, at the same time vulcanizing the hard-rubber ferrule *c* around the outer cylindrical surface of the said ring *b* and the ring-shaped shoulder or projection *c'* into the annular groove *a'* of the handle *a*, as represented in Fig. 2 of the drawings. When the several parts have thus been secured together, a complete brush is formed with the knot or bunch of bristles confined in the non-corrosive ring or band *b* from expansion and with the lower marginal edge *c<sup>2</sup>* of the hard-rubber or other similar ferrule *c* neatly arranged in the groove *b<sup>3</sup>*, formed by the bead or projection *b<sup>2</sup>* at the lower marginal edge of the ring *b*, and the several parts can now be quickly polished and finished without first necessitating the trimming off of

the lower marginal edge of the hard-rubber ferrule, as heretofore.

It will be evident from the foregoing description that I have devised a simple and efficient means for properly securing a hard-rubber or other similar ferrule around the butt-end of the brush-handle and around the knot or bunch of bristles, providing a simple protecting means for preventing the cracking or breaking of the hard-rubber ferrule and at the same time avoiding the disintegration of the metal ring *b* by making the same of zinc or other non-corrosive metal, and, furthermore, by reinforcing a portion of such ring *b* at its lower marginal edge or other suitable portion of the cylindrical surface of said ring, producing greater rigidity and strength of the various parts, whereby the splitting or breaking of the hard-rubber or similar ferrule is successfully overcome and a useless and unsightly brush is avoided.

I am aware that some slight changes may be made in the details of the construction of the parts without departing from the scope of my invention. Hence I do not limit my invention to the exact details of the construction of the various parts as herein described and as illustrated in the accompanying drawings.

Having thus described my invention, what I claim is—

1. The herein-described brush, consisting, essentially, of a handle *a*, having a butt *a<sup>2</sup>* and an annular groove in the cylindrical surface of said butt, a metallic ring of non-corrosive metal on said butt, a knot or bunch of bristles in said ring, a non-metallic ferrule surrounding said ring, a ring-shaped shoulder or projection on said ferrule, extending into said annular groove of said butt, and a protecting means at the lower marginal edge of said ring, arranged and constructed to extend around the lower marginal edge of said ferrule, substantially as and for the purposes set forth.

2. The herein-described brush, consisting, essentially, of a handle *a*, having a butt *a<sup>2</sup>* and an annular groove in the cylindrical surface of said butt, a metallic ring of non-corrosive metal on said butt, a knot or bunch of bristles in said ring, a ferrule of hard rubber, surrounding said ring, a ring-shaped shoulder or projection on said ferrule, extending into said annular groove of said butt, and a marginal bead or upturned edge surrounding the lower extremity of said metallic ring and in contact with the lower marginal edge of said ferrule, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 22d day of January, 1900.

JOSEPH SCHREINER.

Witnesses:

FREDK. C. FRAENTZEL,  
ANDREW ALBRIGHT.

**RUBBERSET**

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