Nov. 28, 1944. J. J. COSIN 2,363,647

HAIRBRUSH COVER

Filed Sept. 2, 1942

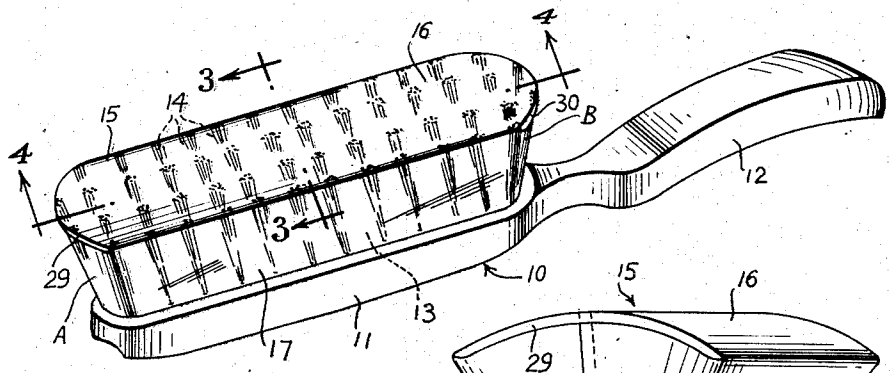


FIG. 1.

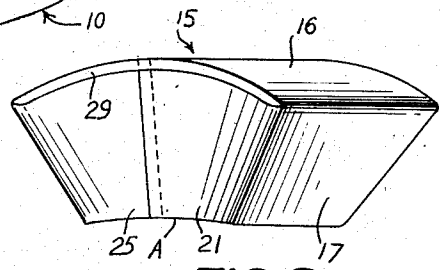


FIG. 2.

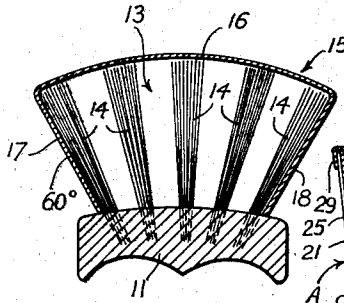


FIG. 3.

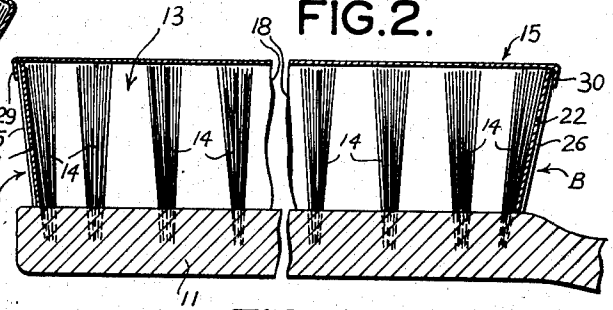


FIG. 4.

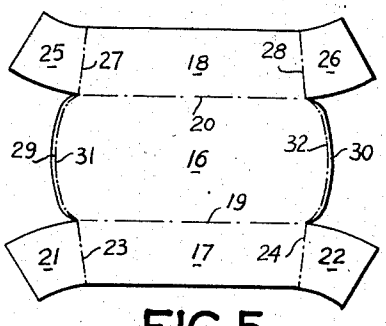


FIG. 5.

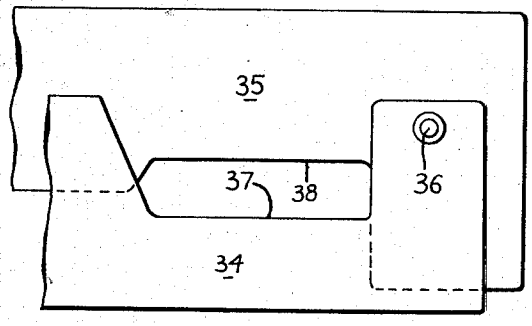


FIG. 6.

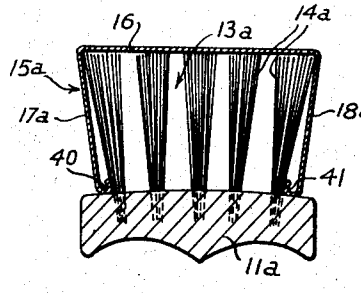


FIG. 7.

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HAIRBRUSH COVER

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Application September 2, 1942, Serial No. 457,090

4 Claims. (Cl. 206—15.1)

This invention relates to new and useful improvements in means for protecting the bristles of hair brushes and the like and has for its primary object to provide a protective cover of simple construction enclosing only the bristle body of the brush.

Another object of the invention is to provide a protective cover of this character made from a single blank of transparent material to enable the purchaser to observe the bristle construction and arrangement without requiring removal of the cover, thereby protecting the bristle body from contamination due to handling.

In the construction of hair brushes or the like, the bristles are usually arranged in tufts or bunches with the bristles in each bunch gathered tightly together at one end and secured to the brush back so that there is a natural tendency for the bristles in each bunch to diverge outwardly from the brush back with the result that the bristle body has a greater area at its free end than at the brush back to which it is secured, and it is a further object of the invention to provide an open-mouth cover conforming in shape substantially to that of the bristle body with the closed end of the cover of greater area than the open mouth thereof and with the side walls flaring outwardly from the open mouth whereby when in place on the bristle body, the sides of the cover and the adjacent inclined sides of the bristle body form a dovetailed joint.

A still further object of the invention is to provide an open-mouth cover for the bristle body of hair brushes and the like wherein the open mouth of the cover is reduced relative to the area of the closed bottom of the cover whereby the cover is held in position about the bristle body by the diverging sides of said bristle body due to the natural tendency for the bristles to flare outwardly from the face of the brush.

With the above and other objects in view which will appear as the discription proceeds, my invention resides in any of the novel features hereinafter more fully set forth in the following description, illustrated by way of example in the accompanying drawing and more particularly pointed out in the appended claims.

Referring to the drawing in which numerals of like character designate similar parts throughout the several views.

Fig. 1 is a perspective view of a hair brush with the bristles thereof protected by a cover in accordance with the present invention;

Fig. 2 is a detail perspective view of the cover per se;

Fig. 3 is a transverse sectional view taken along line 3—3 of Fig. 1;

Fig. 4 is a longitudinal section taken along line 4—4 of Fig. 1;

Fig. 5 is a detail plan view of the blank from which the cover of Fig. 2 is made;

Fig. 6 is a fragmentary plan view of a tool for gathering the bristles together in a compressed state to facilitate application of the cover to the brush, and

Fig. 7 is a transverse sectional view similar to Fig. 3 but showing a modification.

In the drawing, referring more particularly to Figs. 1 to 4 inclusive, 10 represents generally a hair brush or the like including a suitably shaped brush back 11 terminating at one end in a handle portion 12. The brush is provided with the usual bristle body 13 consisting of a plurality of bristles arranged in bunches or tufts 14 with the bristles of each tuft gathered tightly together at one end and suitably secured to the brush back 11. The tufts 14 are arranged in rows extending longitudinally of the brush back 11 with the center row disposed substantially perpendicular to the face of the brush and with the rows on opposite sides of the said center row successively pitched at increasing angles from the perpendicular so that the bristle body 13 is substantially fan-shaped in cross-section and flares outwardly from the face of the brush.

An open-mouth cover 15 of Celluloid or other suitable transparent material encloses the bristle body 13 to protect the latter from dust and at the same time enable the brush to be displayed with the construction and arrangement of the bristle body 13 entirely visible to the purchaser, thereby eliminating the necessity of a container for the brush. The cover conforms in shape substantially to that of the bristle body 13, that is, with the sides of the cover diverging outwardly from the open mouth thereof so that the cover is held in place by the bristle body 13 much in the same manner as the tenons of a dovetailed joint.

As shown in Fig. 5, the cover 15 is made from a single blank of transparent material suitably shaped to provide a central wall area 16 corresponding substantially to the area of the free end of the bristle body 13 and provide longitudinally extending side walls 17 and 18 on opposite sides, respectively, of the central area 16 when folded along score lines 19 and 20. The side wall 17 terminates at its opposite ends in outwardly extending tabs 21 and 22 projecting beyond the edges of the central area 16 and adapted to be

folded inwardly along score lines 23 and 24, respectively. Similarly, the side wall 18 also terminates at its opposite ends in the outwardly extending tabs 25 and 26 adapted to be folded inwardly along score lines 27 and 28, respectively. When so folded, the tabs 21 and 25 adjacent one end of the central area 16 terminate at their free ends in overlapping relation to each other and are cemented or otherwise suitably secured together to provide one of the transverse end walls of the cover 15, for example wall A shown in Figs. 1 and 2, while tabs 22 and 26 adjacent the opposite end of the central area 16 are similarly secured together in overlapping relationship to provide the other transverse end wall of the cover, for example, wall B shown in Fig. 1. The opposite longitudinal extremities of the central wall area 16 project slightly beyond the corresponding edges of the bristle body to be protected to form narrow edge portions 29 and 30 adapted to be folded along score lines 31 and 32, respectively, to overlie a portion of the adjacent transverse end walls A and B of the cover, as clearly shown in Figs. 1, 2 and 4 and be cemented or otherwise suitably secured to said walls to seal the opposite longitudinal extremities of the bottom wall 16 of the cover.

The cover 15 may be assembled from the blank shown in Fig. 5 while in place on the bristle body 13, or such cover may first be assembled and thereafter placed on the brush. However, in the latter procedure, as the reduced mouth of the cover must be slipped over the enlarged free end of the bristle body 13, it is necessary to gather the tufts 14 together and compress the same into a relatively small body. For this purpose I have shown a tool in Fig. 6 consisting of a pair of opposed jaws 34 and 35 pivoted at one end as at 36 and having suitably shaped cutout recesses 37 and 38, respectively. These jaws are movable towards and away from each other on their pivot 36 and are made relatively thin so that when moved toward one another, only that part of the tufts 14 adjacent the brush back 11 will be engaged between the recesses 37 and 38, the gathering and compression of the tufts at this point correspondingly compressing the free end of the bristle body 13 and enabling the same to enter the mouth of the cover 15, after which the jaws are moved away from one another and the bristle body is restored to its original form due to the natural resiliency of the bristles in each of the tufts 14.

In Fig. 7 a modified form of brush is shown in section wherein the rows of bristle tufts 14*a* on opposite sides of the center row incline only slightly from the perpendicular relative to the face of the brush.

As in the previously described construction, the bristles in each tuft are gathered tightly together at one end and are secured to a brush back 11*a* so that there is a natural tendency for the bristles to diverge outwardly toward their free ends. A cover 15*a* conforming in shape substantially to that of the bristle body 13*a* encloses the latter to protect the same from dust and contamination. However, as the opposite edges of the bristle body 13*a* diverge only slightly outwardly, in order to prevent the cover from becoming dislodged from the bristle body, the side walls 17*a* and 18*a* of the cover terminate at their free ends in rolled-over portions forming inwardly extending beads 40 and 41, respectively, reducing the open mouth of the cover, and engaging the outer rows of tufts 14*a* adjacent the brush back 11*a*.

As in the previously described construction, the cover 15*a* is also made from a single blank of transparent material generally similar to that heretofore described in connection with Fig. 5 but including the rolled-over beads 40 and 41 at the free ends of the wall-forming parts 17 and 18 of the blank.

It will thus be seen from the foregoing that I have provided a protective cover for the bristle body of hair brushes and the like which conforms substantially to the shape of the bristle body and which, because of the diverging faces presented by the outer rows of tufts and the corresponding diverging side walls of the cover providing a dovetail joint between the cover and bristle body, is held in place on the bristle body without requiring auxiliary attaching means and without danger of becoming accidentally dislodged in normal handling of the brush.

The cover may be removed whenever desired by simply holding the brush in one hand and grasping the cover with the other hand and exerting a slight pulling force sufficient to overcome the resistance offered by the resilient bristles which are compressed by the reduced mouth of the cover during this removal operation.

While I have shown and described the invention in connection with an oblong bristle body, obviously, the same is equally applicable to brushes having round, oval, or any other shape bristle body, the cover in each instance conforming to the shape of the bristle body and having side walls which converge toward the reduced open mouth of the cover to form with the corresponding diverging sides of the bristle body a dovetailed joint to hold the cover in position on the brush.

From the foregoing it is believed that the construction and advantages of my invention may be readily understood by those skilled in the art without further description, it being borne in mind that numerous changes may be made in the details disclosed without departing from the spirit of the invention as set out in the following claims.

What I claim is:

1. A protective cover for the bristle body of a hair brush or the like comprising a single blank suitably shaped to provide a central wall area corresponding substantially to the area at the free end of the bristle body intended to be covered, longitudinally extending portions on opposite sides, respectively, of said central wall area adapted to be folded to form converging side walls terminating in an open mouth of reduced area relative to said central wall area, separate outwardly extending tabs at the opposite ends, respectively, of each of said longitudinally extending portions projecting beyond the adjacent longitudinal extremities of said central wall area and adapted to be folded inwardly and when so folded, the tabs at the opposite ends of one of said longitudinally extending portions terminating at their free ends in overlapping relation to the corresponding tabs of the other of said longitudinally extending portions and being secured together to provide transverse end walls adjacent the opposite longitudinal extremities, respectively, of the central wall area in inwardly spaced relation to said extremities, whereby said central wall area projects at its opposite ends beyond said transverse end walls, said projecting ends of the central wall area adapted to be folded over said transverse end walls and secured thereto to form a seal between said central wall area and said transverse end walls, said cover embracing the

bristle body and held only by the coaction of the bristles upon the cover.

2. In combination with a brush having a brush back and a bristle body substantially fan-shaped in cross section and secured at its reduced end to said brush back; a protective cover of transparent material for said bristle body conforming in shape and size substantially to said bristle body and including a bottom wall extending across the enlarged free end of said bristle body, and converging side walls extending angularly from said bottom wall and terminating in a reduced open mouth embracing the bristle body immediately adjacent the brush back, and engaging the base of the bristles said converging side walls cooperating with the diverging sides of said bristle body to form a dovetailed joint between said cover and bristle body to maintain the cover in place, by the inherent resiliency of the cover acting upon the base of the bristles.

3. In combination with a brush having a brush back and a bristle body secured at one end to said brush back and flaring outwardly towards its free end; a protective cover of flexible transparent material for said bristle body including a bottom wall corresponding to the enlarged free end of said bristle body, converging side walls extending angularly from said bottom wall and terminating in a reduced open mouth adjacent said brush back, the edges of said sidewalls contacting with the bristles immediately at the brush back, and an inwardly rolled-over bead formed on each of said converging side walls at said reduced open mouth for engagement with the outer edge of said bristle body adjacent said brush back to maintain the cover in place, by its own inherent resiliency.

4. In combination with a brush having a brush back and bristles forming a bristle body secured at one end to said brush back and flaring outwardly towards its free end, the area of the free end of the body being larger than the area of the secured end of the body; of a protective cover of flexible transparent material for said bristle body including a bottom wall corresponding to the larger free end area of said bristle body, converging side walls extending angularly from said bottom wall and terminating in a reduced open mouth adjacent said brush back, the open mouth edges of said side walls contacting with the bristles immediately at the brush back, the area of the open mouth of the cover being substantially equal to the area of the secured end of the bristle body, the engagement of said edges of the cover with the outer edge of said bristle body adjacent said brush back maintaining the cover in place by the inherent resiliency of said sidewalls.

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