

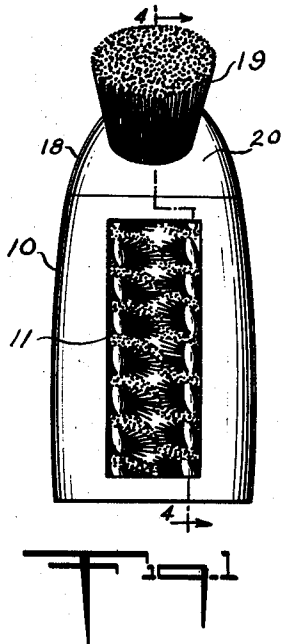
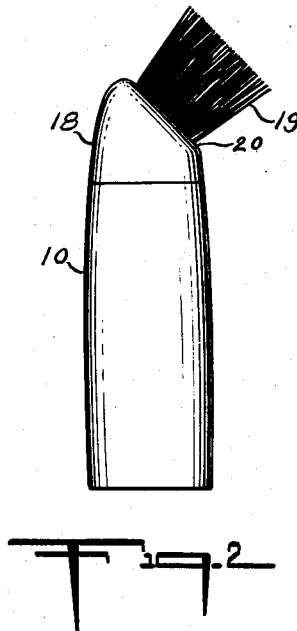
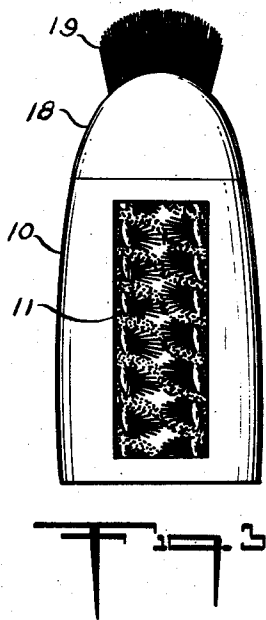
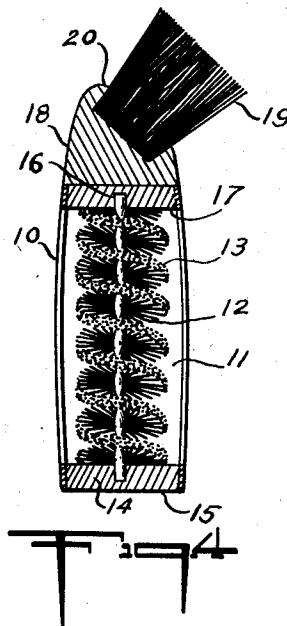
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COMBINATION COMB AND CLIPPER CLEANER

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1

2

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COMBINATION COMB AND CLIPPER CLEANER

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1 Claim. (Cl. 15—106)

This invention relates to cleaners and is particularly concerned with small compact bristle-type cleaners adapted for use in barber shops and beauty parlors for the cleaning of clippers, combs and like equipment.

While various types of brushes have for many years been provided for the cleaning of combs and while brushes have also been used for removing loose hair and other foreign matter from clippers, such devices have not heretofore been combined in a single cleaner. Furthermore, while various combination brushes have been proposed for separate cleaning operations, such brushes have, for the most part, been complicated, large and cumbersome. Present day brushes conventionally have flat backs which may be laid upon a supporting surface so as to dispose the bristles upwardly. While such support is advantageous from the standpoint of relieving the bristles from the weight of the brush, such disposition is nevertheless, space consuming. In establishments of the type referred to, where space is frequently at a premium, such flat backed brushes are not always desirable.

It is therefore, among the primary objects of the present invention to provide a novel and improved brush, particularly adapted for use in beauty salons and barber shops.

It is also among the objects of the present invention to provide a novel and improved combination cleaner for the cleaning of both combs and clippers, as well as such other equipment as may be appropriate.

Another object of the present invention is to provide a brush of the general character discussed having improved supporting means whereby the brush may be retained in a vertical position so as to economize the space required and yet present the brush for convenient handling.

The objects of the invention also include that of providing in a device of the character set forth, a novel and improved comb cleaner for the removal of dirt and foreign matter from between the teeth of a comb.

A further important object of the present invention is to provide a convenient compact durable brush which will be effective and efficient and well adapted to meet the demands of economic manufacture.

Numerous other objects, features and advantages of the present invention will be apparent from a consideration of the following specification taken with the accompanying drawings in which:

Fig. 1 is a front plan view of one preferred embodiment of the present invention;

Fig. 2 is a side elevation of that form of the invention disclosed in Fig. 1;

Fig. 3 is a rear elevation of the brush of the present invention, and

Fig. 4 is a central sectional view of the device.

While various novel aspects of the present invention may be incorporated in different styles and designs of brushes, that form of the invention here presented by way of illustration, may be generally characterized as comprising a hollow body defining a through opening or aperture and mounting a pair of parallel, helically bristled, cooperating roller brushes, the arrangement being such that by

passing a comb through the body opening, the bristles of the roller brushes will engage between the teeth of the comb to cooperatively act in thoroughly cleaning the same. One end of the body is formed with a bristle head for mounting obliquely extending end bristles of a clipper cleaning brush, while the opposite end is formed with a flat supporting surface to permit the device to be conveniently placed and supported in vertical space saving position. As will be noted, the brush is small, compact and so simple in construction as to be economically manufactured, as well as providing an effective efficient and durable cleaner.

In the drawings, the numeral 10 represents the hollow body, preferably oval in transverse cross section and thus adapted to comfortably receive the hand of the user. While the invention is not limited nor restricted in any way to the materials which may be employed in the manufacture of the device, the present construction lends itself to the fabrication of the body from inexpensive material, such as wood, plastic or sheet metal. The walls of the body 10 are thus formed as a thin shell having opposed co-extensive openings on either side, as indicated at 11. As here shown, the openings 11 may be generally rectangular and of greater length along the length of the body than of width. The openings 11 provide for the ready insertion through the body of a comb which may be threaded back and forth through the body of a comb to be engaged by and cleaned through contact with the roller or revolving brushes.

The rotary or revolving comb cleaning brushes comprise a parallel pair of helically bristled units, each including a central wire axis stem 12 from which the spirally arranged bristles 13 extend in radial fashion. As noted, the rotary brushes are parallel and so spaced as to provide a slight overlap of the bristles. Thus, the bristles of one of the rotary brushes will lie between the helical flight of the bristles of the companion rotary brush at the plane of bristle intermeshment. Therefore, it will be seen, that as a comb is passed backward and forward through the openings 11, the intermeshing bristles will engage between the teeth of the comb to dislodge any dirt or foreign matter therefrom. It will be understood, that as an incident to the movement of the comb, the rotary brushes will be revolved to give a longitudinal increment of motion which has been found to be highly advantageous in the cleaning between the teeth of a comb.

The lower ends of the stems 12 of the roller brushes are loosely mounted in an end closure plug 14 which is shaped to conform to the end configuration of the shell of the body 10 and which thus forms a rotatable bearing for the lower ends of the stems. The outer face 15 of the lower closure plug 14 is formed as a smooth supporting surface disposed in a plane transverse of the body 10. Thus, the brush may be supported in a vertical position not only saving space in that the area required is only that of the end plug, but further, such support presents the brush for ready grasping by the operator, while the hand is in the natural and convenient vertical position.

The opposite upper ends of the stems 12 are rotatably mounted as at 16, in an intermediate upper plug 17 similar to the plug 14, the upper plug closing the upper end of the body shell as the lower plug closes the lower end of the shell. Mounted upon and secured to the outer upper face of the upper plug 17 is a clipper brush head 18 mounting the end bristles 19. Bristles 19 extend obliquely upward and outwardly in a direction normal to the oblique front face 20 of the head 18. By this disposition of the bristles 19, it will be seen that they are so arranged as to be free of any interference with the comb cleaning operation hereinbefore described and, at the same time, the clipper cleaning bristles 19 are conveniently arranged for operations in the cleaning of clippers. It will be

3

noted, that the oblique disposition of these bristles with respect to the axis of the cleaner presents them for efficient and effective engagement without requiring any uncomfortable disposition of the hand.

It will, of course, be understood, that the present invention is not limited or confined to the exact and specific structural details here presented, but in the practice of the invention, numerous changes, modifications and the full use of equivalents may be resorted to without departure from the spirit or scope of the invention as outlined in the appended claim.

What is claimed is:

A combination cleaner for combs and clippers including an elongated hollow body having a flat transverse surface at one end substantially perpendicular to the axis of said body for supporting the cleaner in a vertical position, said body having elongated generally rectangular aligned openings in opposite sidewalls thereof, said openings being disposed centrally of said sidewalls and extending axially of said body substantially perpendicular to said flat surface, a pair of elongated opposed comb cleaning brushes rotatably mounted in said body in substantially parallel relationship, said brushes having helically disposed bristles

4

and with the bristles of one brush intermeshing with and overlapping the bristles of the other brush, the sidewalls of said body adjacent said openings extending around and enclosing a portion of the bristles of each brush and the bristles of said brushes being disposed entirely within the confines of said body whereby contact of said brushes with objects exteriorly of said body is prevented and clipper cleaning bristles mounted on the opposite end of said body, said clipper cleaning bristles extending from said body in a direction away from said flat surface and at an oblique angle to the axis of said body.

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