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J. W. McCOY

3,348,253

HAIR BRUSH AND/OR COMB CLEANER

Filed June 14, 1965

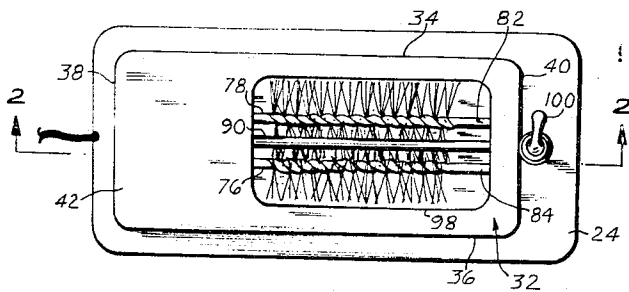


FIG. 1

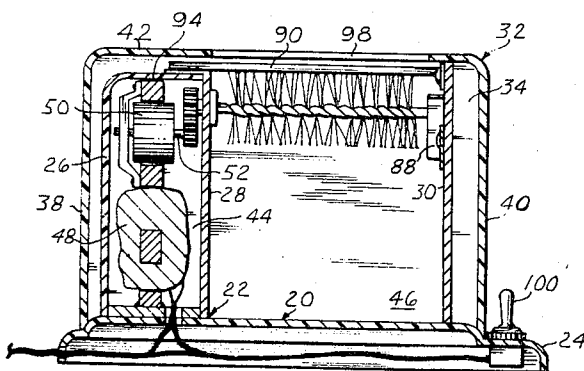


FIG. 2

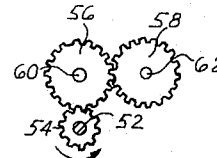


FIG. 3

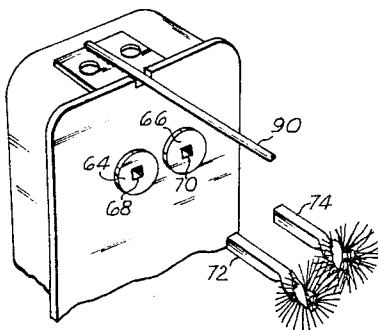


FIG. 4

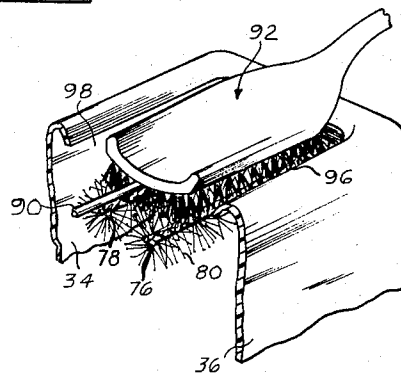


FIG. 5

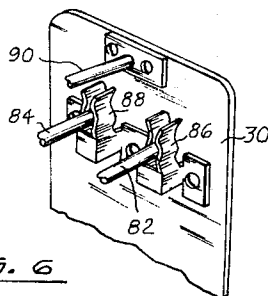


FIG. 6

INVENTOR.
JOHN W. MCCOY

BY

FULWIDER, PATTON, RIEBER, LEE & UTECHT
ATTORNEYS

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HAIR BRUSH AND/OR COMB CLEANER

John W. McCoy, 9005 Rohr Place,
San Diego, Calif. 92123

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ABSTRACT OF THE DISCLOSURE

A device for removing hair from a hair brush including two elongated brushes rotating in opposite directions which comb the hair out of the hair brush into a lower hair receiving compartment. The hair brush body is supported by an elongated rod disposed parallelly above the elongated brushes.

The present invention relates to a device for removing hair from a hair brush or a comb, the hair brush being of the type including a body and bristles extending from the body.

The device of the present invention comprises a frame that carries a motor. This motor drives a pair of elongated brushes that are arranged parallelly and juxtaposed to one another. These brushes rotate in opposite directions and include substantially radially extending tines. Means is disposed above the elongated brushes for supporting the hair brush in a position in which the bristles of the hair brush are in contact with the tines of the elongated brushes. The means for supporting the hair brush comprises an element such as a rod which extends longitudinally of the elongated brushes.

The frame includes a housing for confining the hair removed from the hair brush. This housing is open at the top for receiving the hair brush.

Other features and the advantages of the present invention will be apparent from the following description, reference being had to the accompanying drawing wherein a preferred embodiment of the invention is illustrated.

In the drawing:

FIG. 1 is a top plan view of the hair removing device;
FIG. 2 is a sectional view taken along line 2—2 of FIG. 1;

FIG. 3 is a fragmentary view of the gearing for driving the two brushes so that they rotate in opposite directions;

FIG. 4 is a perspective view of the upper part of the motor housing, a fragmentary view of the rod which holds the hair brush, and a fragmentary view of the elongated brushes;

FIG. 5 is a perspective view of the upper right portion of the frame, showing fragments of the elongated hair removing brushes and also a perspective view of the hair brush; and

FIG. 6 is a perspective view of the end wall of the frame showing a fragment of the rod which supports the hair brush and also showing the bearings for the elongated rotatable brushes and fragments of the rods of the brushes.

Referring more in detail to the drawing, the device is shown generally at 20 including a main frame 22. The main frame includes a base 24 and walls 26, 28 and 30, which are arranged parallelly of one another and are supported by the base 24. A cover 32 having a rear wall 34, a front wall 36, a left side wall 38, a right side wall 40 and a top 42 extend about the main frame with the rear wall 34 and the front wall 36 in abutting relationship with the parallel walls 26, 28 and 30 to thus form a motor compartment 44 and a hair receiving compartment 46.

The motor compartment receives a motor 48 having a rotating armature 50, the shaft 52 of which has a pinion 54 which in turn drives a gear 56 which meshes with the gear 58. Gears 56 and 58 drive shafts 60 and 62, respec-

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tively, which drive discs 64 and 66, respectively, which are journaled in suitable bearings in the upright wall 28. These discs 64 and 66 are provided with square holes 68 and 70, respectively.

The holes 68 and 70 receive the square end sections 72 and 74, respectively, of brush shafts 76 and 78 carrying radially extending tines 80 in the form of wires or bristles 96. The opposite ends 82 and 84 of the shafts 76 and 78 are journaled in clips 86 and 88 in the end wall 30.

Means is provided in the form of a rod or wire 90 for supporting the hair brush 92. This rod is fastened at one end to the top wall 94 of the motor housing 44 and to the upper part of the end wall 30. This rod 90 is so disposed that when the hair brush body 92 rests upon the elongated rod 90, the bristles 96 thereof are in contact with the tines 80 of the elongated brushes. The top wall 42 of the cover 32 is opened as at 98 for receiving the hair brush.

As seen from FIG. 3, the gear 56 rotates in a clockwise direction while the gear 58 rotates in a counterclockwise direction whereby the tines of the elongated brushes in passing through the bristles 96 of the hair brush 92 pull the hair from the hair brush downwardly between the elongated brushes and into the compartment 46.

In operating the device, the attendant will insert the hair brush 92 through the opening 98 and the top wall 42 of the cover and cause the same to rest upon the rod 90 and then by actuating the switch 100, which controls the motor, the rotation of the tines 80 of the elongated brushes will quickly remove all of the hair from the hair brush. The supporting rod 90 prevents the hair brush body from passing into and through the area between the shafts 76 and 78. Access can be readily had to the compartment 46 for removing the hair therein; it is necessary only to remove the cover 32 whereby the front and rear of the compartment is opened. The field of use comprehends any area where brushes or combs may be used and in need of cleaning and is particularly useful in connection with beauty parlors and barber shops for there it is compulsory to remove all hair from hair brushes and combs.

While the form of embodiment herein shown and described, constitutes preferred form, it is to be understood that other forms may be adopted falling within the scope of the claims that follow.

I claim:

1. A device for removing hair from a hair brush or a comb, which hair brush includes a body and bristles extending therefrom, said device comprising in combination:

(A) means forming a frame;

(B) a pair of horizontally elongated brushes supported by the frame and arranged parallelly and juxtaposed to one another, said brushes including substantially radially extending bristles;

(C) a rod supported by the frame and disposed above and parallelly of the elongated brushes for supporting the hair brush body in a position in which the bristles of the hair brush extend downwardly into contact with the bristles of both of the elongated brushes;

(D) and means supported by the frame for rotating the elongated brushes in opposite directions to pull hair from the bristles of the hair brush downwardly.

2. A device as defined in claim 1, characterized in that the frame includes:

(A) (1) a base;

(2) two spaced upright walls extending upwardly from the base and forming supports for the opposite ends of the elongated brushes and said rod, at least part of the area between said upright walls being open;

and further characterized in that the device includes:
(E) a removable cover having:

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- (1) an opening in the top wall above the rod for receiving the hair brush;
- (2) and a section extending alongside of the open area between the upright walls and cooperating with the upright walls to form a hair receiving compartment.
3. A device as defined in claim 1, characterized in that the frame includes:
- (A) (1) a base;
- (2) three upright walls arranged substantially parallelly of one another, the intermediate upright wall and one of the end upright walls forming supports for the opposite ends of the elongated brushes and said rod, at least part of the area between said intermediate upright wall and the said one end upright wall is open, the intermediate upright wall and the other end upright wall providing a space for a motor;
- and further characterized in that the device includes:
- (E) a removable cover having:
- (1) an opening in the top wall for receiving the hair brush;
- (2) and a section extending alongside the three upright walls including the open area between the

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- intermediate and the said one upright wall and cooperating with the upright walls to form a hair receiving compartment and a motor compartment;
- and further characterized in that the means (D) includes:
- (1) a motor in the motor compartment;
- (2) gearing between the motor and the rotatable brushes.
4. A device as defined in claim 1, characterized to include:
- (E) means for removably supporting the rotatable brushes by the frame.

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CHARLES A. WILLMUTH, *Primary Examiner.*E. L. ROBERTS, *Assistant Examiner.*