March 18, 1958 A. S. HAISLIP 2,826,812

ELECTRIC SHAVER WITH HAIR GROOMING DEVICE

Filed April 25, 1956

Fig. 1

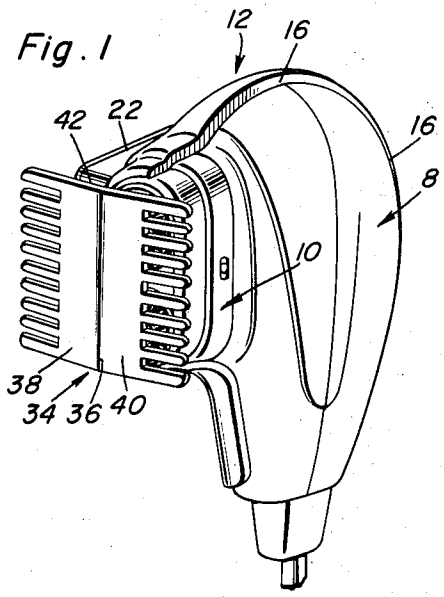


Fig. 2

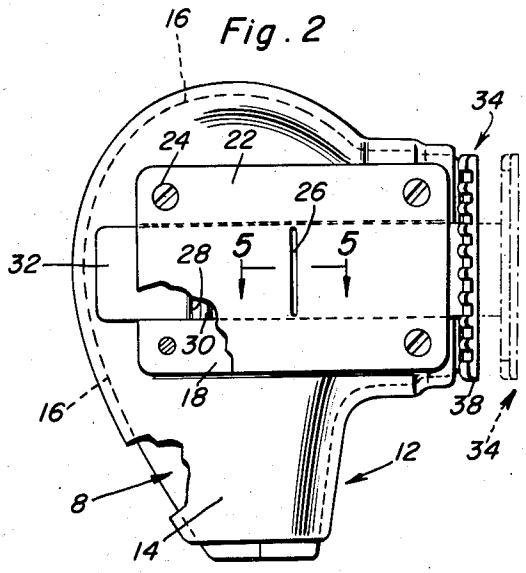


Fig. 3

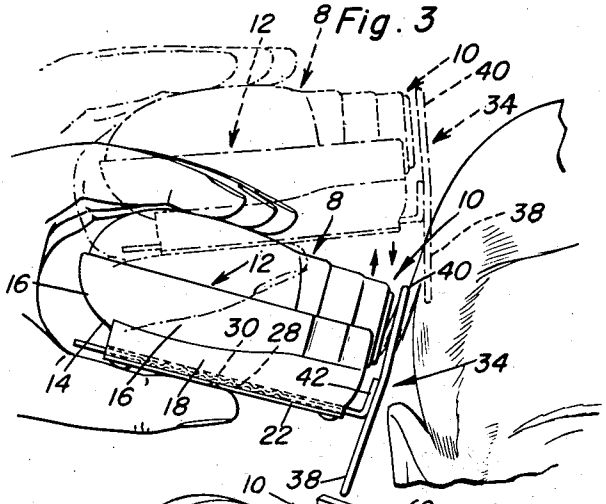


Fig. 4

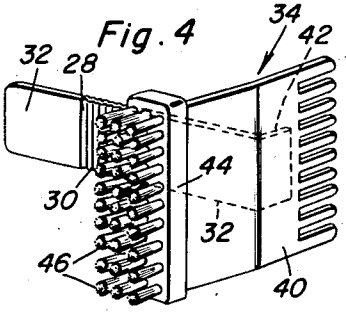
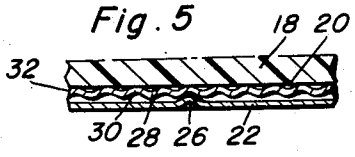


Fig. 5



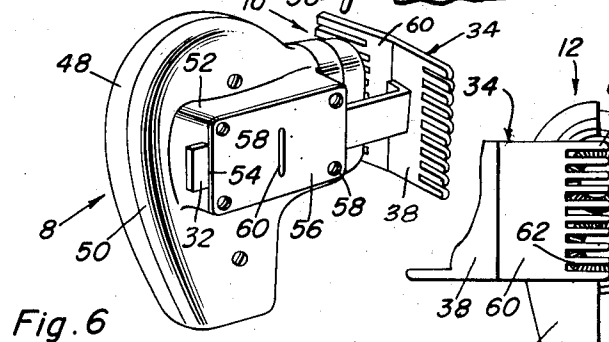


Fig. 6

Fig. 7

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ELECTRIC SHAVER WITH HAIR GROOMING DEVICE

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3 Claims. (Cl. 30—34)

This invention relates to means for trimming, thinning and grooming one's hair and which involves the use of an electric razor or so-called dry shaver.

Briefly, the invention has to do with simple and expedient structural means which may be a component part of the shaver itself; or, alternatively, may take the form of a so-called razor attachment as revealed, for example, in my previous Patent 2,715,266 of August 16, 1955.

With reference to the stated patent it will be seen that it relates to an attachment comprising an adapter which conformably fits itself to and is aptly retained on the body of the razor, plate means including at least one toothed comb which assumes operative relation ot the existing or stock cutter means of the usual cutter head of the razor, and mounting means for retaining said first named means on said adapter.

More explicitly, the attachment in the stated patent is characterized by a substantially rectangular plate having a lengthwise central bend defining complemental flat half-portions, the respective outer longitudinal edges thereof being toothed and providing progressively and selectively usable combs, said half-portions being in slight divergent relation in respect to said bend, one of said half-portions having key-hole slots therein, and the combination therewith of a tray-like razor receiver and holder, the latter open at one end and provided with a lateral support flange, said flange having headed retainer-studs and the latter serving to accommodate said key-hole slots, whereby said plate is detachably connectible with said flange.

By way of contrast the instant concept comprehends, in one of its aspects, a removable adapter which conforms in shape and size to and constitutes a receiver and firm holder for said shaver whereby the adapter and shaver may be simultaneously gripped in one hand and pressed into direct contact with each other and operated as a handily maneuverable and controllable entity, means including at least one toothed comb which assumes an operative posittion relative to the existing or stock cutter means of the usual cutter head of said shaver, and adjustable means for setting, gaging and positively retaining said first named means on said adapter.

It is a further object of the invention to construct, under certain circumstances, one of the combs so that the teeth thereof do not completely extend over and cover the cutting area of the cutter head of the shaver. That is to say, in this form of the invention the toothed comb serves as a gauge in spacing the cutter head away from the scalp of the user and the terminals of the teeth terminate about midway of the effective cutting area of the cutting head leaving portions of the cutting head completely exposed so that with a little skill in handling, resulting from practice, one can use both the partly covered head and the partly exposed head in thinning out the hair.

An invention such as that herein under consideration is naturally possessed of numerous other features and advantages. However, it is not deemed necessary in the instant presentation to dwell upon the various commercial

and analogous aspects of the invention. Perhaps many of these will become evident, as a matter of course, upon reading the following description of the details in conjunction with the drawings.

In the drawings:

Fig. 1 is a perspective view of a conventional-type electric razor or dry shaver showing the improved hair trimming and grooming attachment applied in the manner in which it is intended to be used;

Fig. 2 is a side view of the structure seen in Fig. 1 observing the same from left to right and with portions broken away;

Fig. 3 is a view in edge elevation showing in full and dotted lines how the top comb serves to guide the hairs to the cutter head on the upstroke and how the bottom comb serves to comb the hair back down on the down stroke;

Fig. 4 is a perspective view of a modification;

Fig. 5 is an exaggerated section on the line 5—5 of Fig. 2;

Fig. 6 is a perspective view of a modification wherein the adapter or mounting and retaining means is built into and forms a component part of the handle or casing of the shaver itself; and

Fig. 7 is a modification in end view showing how the invention may be used slightly modified and then used for "thinning" the hair.

It is, of course, obvious that the particular make or kind of electric razor is no part of the invention. It has been found, however, that the particular adapter shown lends itself for use in connection with a Norelco electric razor **8**. The usual rotary-type twin cutter head construction is denoted at **10**.

The adapter will vary in construction according to the kind of razor with which it is to be employed. Therefore, an essential part of the over-all attachment is an appropriate adapter and this is generally denoted by the numeral **12**. As perhaps best shown in Figure 2, it not only is such that it conformingly fits the razor, it provides a holder for the razor and makes it possible to seat and clamp the razor therein so that the two may be used as an entity to insure precision results. Specifically, the adapter takes the form of a receptacle-like receiver which is perhaps best referred to as a tray-type receiver. Therefore, it is characterized by a bottom **14**, (Fig. 2) which is shaped up to fit the razor **8**. Incidentally, the razor may be placed in from either side with the adapter being approximately of a depth equal to one-half the thickness of the razor body. Then, too, the bottom **14** conforms to the coacting surfaces of the razor body. The receiver is open at one end, the top in Figures 1 and 2. It is provided on opposite sides with outstanding and suitably shaped flanges **16**.

The bottom is provided with a suitably shaped block-like embossment **18** having a lengthwise channel **20** (Fig. 5) and a flexibly resilient flat cover plate **22** secured in place by fasteners **24**. At its center and in alignment with the groove or channel the plate has an indentation forming a detent **26** adapted to engage the ribs **28** and grooves **30** in the corrugated arm **32** of the readily applicable and removable gauge and comb attachment. The attachment is denoted by the numeral **34**. It comprises a substantially rectangular plate in the form shown in Figs. 1, 2 and 3 which is centrally divided as at **36** to provide selectively usable angularly directed combs **38** and **40** respectively. The comb is centrally attached to the laterally bent end portion **42** of the arm **32**. Thus the other end portion of the arm may be fitted telescopically into the sheath and adjusted in and out so as to regulate the space between the comb or combs and the razor's cutter head depending on the cutting, trimming or grooming requirement. The entire comb and arm attachment

34 may be adjusted so that either comb is in spaced parallelism with respect to the cutter head 10 of the razor to make it possible to use the device in the manner shown on the up and down strokes in Fig. 3. Or, the device may be reversed and slipped into the sheath and used with the alternate comb. In either instance, pressure of the thumb against the flexible cover plate 22 causes the detent 26 to engage the corrugations on the arm 32. In fact, the arm may be construed as a rack and the detent 26 as thumb-pressed-means for adjustably clamping the rack in any desired position.

If instead of using two combs it is desired to employ on the plate a bristle brush this may be done as shown in Fig. 4 and wherein the brush is denoted at 44 and the bristles at 46.

It is within the purview of the invention to build the sheath directly on the casing or shell-like body of the razor as shown in Fig. 6. Here the half-sections are denoted at 48 and 50, with the section 50 provided centrally with an embossment or mount 52, grooved at 54 and provided with a cover plate 56 fastened at 58 and with the detent 60 located as shown.

The invention features two combs on one plate or one comb and one brush used, of course, as shown in Fig. 3. Secondly, the razor or shaver with the "built-in" adapter means, as in Fig. 6, is highly important. In this phase of the concept the arm 32 and plate with comb and brush means becomes the "attachment," as it were. Now, in Fig. 7 the difference is that at least one of the combs, say the comb 60, must be smaller, that is, such that the teeth 62 may terminate so as not to completely cover the cutter head. This arangement allows a portion (depending on the construction of the shaver) of the cutter head to be fully uncovered and exposed so that the latter may be used to "thin" the user's hair, say above the areas where the comb means of Figs. 1 to 3 function. The claims are therefore to be constructed accordingly.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

1. Means for use on and in conjunction with an electric dry shaver and which enables the dry shaver, in conjunction with said means, to serve temporarily for hair trimming and grooming; comprising a rigid elongated outstanding embossment constituting a mount and having a flat outwardly facing surface provided with a shallow lengthwise channel which is open at its opposite ends, a flat plate complemental to said mount and superimposed on and fastened to said outwardly facing surface with a median portion thereof covering said channel except for the open ends of the channel, that portion of the plate which is directly over and in line with said channel and having a detent projecting into the channel, and an attachment cooperable with said mount and comprising a single plate having alternatively usable combs, one comb serving on an upstroke of the dry shaver and in a vertical path of movement to collect the hair-ends to be acted on by the cutter means in the cutter head of the dry shaver, the other comb serving to straighten and comb the hair back down to its intended place during the downstroke of the dry shaver, and an arm having one end fixed to a median portion of one side of said plate and extending at right angles from said plate, said arm extending slidingly into said channel and confined in the channel by the cooperating median portion of the plate, said detent and that portion of the plate carrying it such that the detent may be forced by thumb pressure against the arm so that the latter may be gripped and held in an intended or desired position, whereby to permit the combs to be utilized as gauge means for regulating the space between the user's scalp and cutter head of a dry shaver.

2. The structure defined in claim 1, and wherein said arm is corrugated, the corrugations defining transverse longitudinally spaced ribs and intervening grooves, said grooves constituting selectively usable keeper seats for the detent, and said arm of a length greater than the length of said channel, said cover plate wholly exposed and secured in place on the mount by way of readily accessible fasteners.

3. In combination, an electric dry shaver embodying a hollow body having abutting cooperating sections, one of said sections having a rigid elongated outstanding embossment constituting a mount and a flat outwardly facing surface provided with a shallow lengthwise channel which is open at its opposite ends, a flat plate complemental to said mount and superimposed on and fastened to said outwardly facing surface with a median portion thereof covering said channel except for the open ends of the channel, that portion of the plate which is directly over and in line with said channel flexibly resilient and having a detent projecting into the channel, and an attachment cooperable with said mount and comprising a single plate having alternatively usable combs, one comb serving on an upstroke of the dry shaver and in a vertical path of movement to collect the hair-ends to be acted on by the cutter means in the cutter head of the dry shaver, the other comb serving to straighten and comb the hair back down to its intended place during the downstroke of the dry shaver, and an arm having one end fixed to a median portion of one side of said plate and extending at right angles from said plate, said arm extending slidingly into said channel and confined in the channel by the cooperating median portion of the plate, said detent and that portion of the plate carrying it such that the detent may be forced by thumb pressure against the arm so that the latter may be held in an intended or desired position, whereby to permit the combs to be utilized as gauge means for regulating the space between the user's scalp and cutter head of a dry shaver.

References Cited in the file of this patent

UNITED STATES PATENTS

429,722	Hatcher	June 10, 1890
736,198	Black	Aug. 11, 1903
1,713,369	Borrmann	May 14, 1929
2,214,069	Sikora	Sept. 10, 1940
2,216,797	Andis	Oct. 8, 1940
2,306,039	Cromonic	Dec. 22, 1942
2,517,999	Giorgi	Aug. 8, 1950
2,577,357	Pasquesi	Dec. 4, 1951
2,618,060	Giorgi	Nov. 18, 1952
2,715,266	Haislip	Aug. 16, 1955