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HAIR CLIPPER

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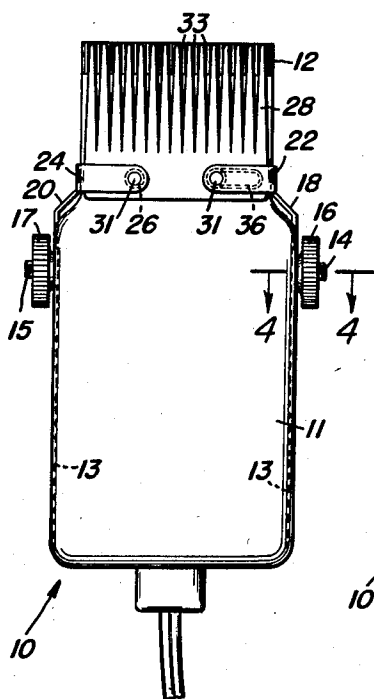


FIG. 1.

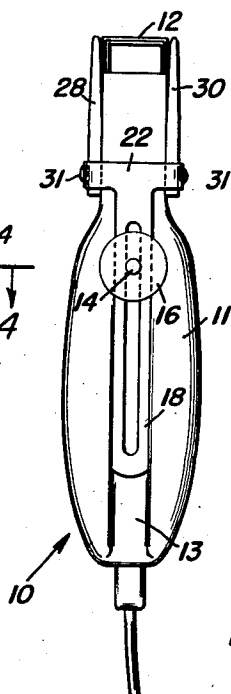


FIG. 2.

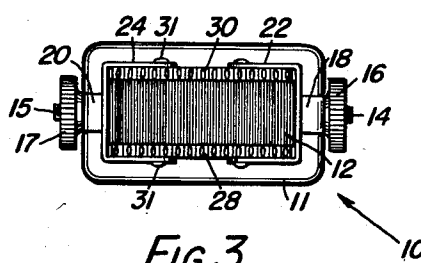


FIG. 3.

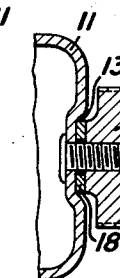


FIG. 4.

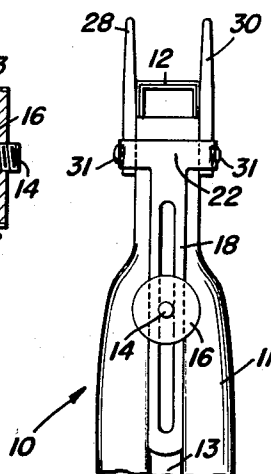


FIG. 5.

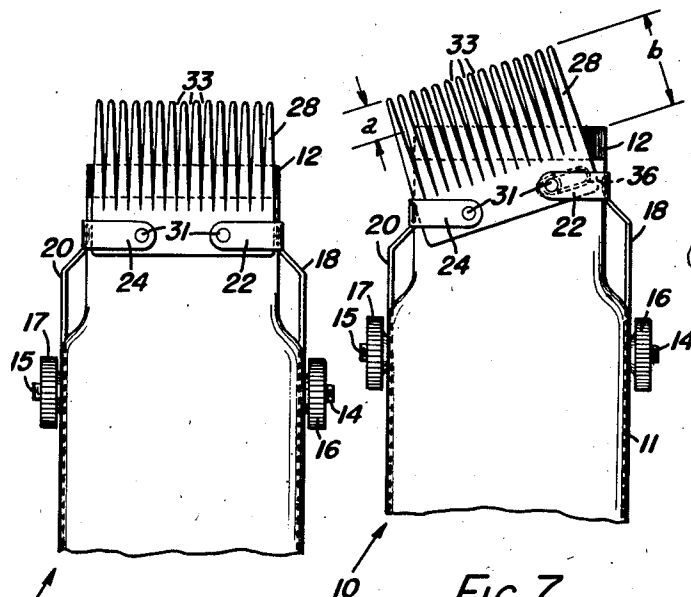


FIG. 6.

FIG. 7.

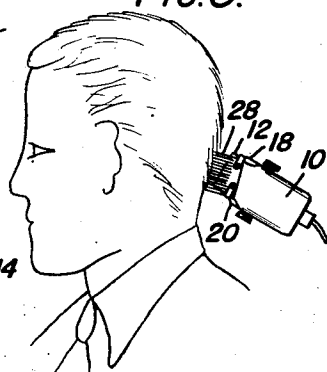


FIG. 8.

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2

2,802,263

HAIR CLIPPER

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4 Claims. (Cl. 30—201)

This invention relates to hair clipping devices, and more particularly to a hair clipper having adjustable guide members for regulating the cutting action, one object being the provision of a new and more useful device of this description.

Hair clippers are commonly provided with combs or guides extending beyond the cutting means for protecting the outer end, suitably aligning the hair and for spacing the cutting means from the surface from which the hair is being clipped. It is another object of this invention to provide such combs or guides which are adjustable in order to permit convenient regulation of the clipping action, and to provide mechanical means for adjusting the length to which the hair is cut.

It is customarily desirable in hair cutting to provide a taper, that is, to clip the hair short around the margins and to gradually increase the length at which the hair is cut at positions spaced from the margin. For example, in cutting hair it is desirable to cut it short at the back of the neck and gradually increase the length over the back portion of the head. Similarly, the hair is cut very short above the ears and is gradually tapered to full length at the top of the head. This so called tapering of a hair cut is a difficult procedure requiring considerable skill and practice, and the attainment of the desired smoothly tapered effect is difficult for those not adequately trained and skilled in the art of barbering. For this reason, it is a further object of this invention to provide an adjustable guiding means for hair clippers which may be readjusted to clip at any desired angle and which will facilitate the attainment of the desired taper even in the hands of untrained and inexperienced persons.

A further object of this invention is the provision of a clipper having guiding means adjustable in both longitudinal and angular directions which may be adjusted to regulate both the depth and angle of the cut.

Further objects include the provision of a clipper of the above description, that is simple, inexpensive to manufacture, and efficient in the hands of an unskilled person.

To these and other ends the invention resides in certain improvements and combinations of parts, all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings:

Fig. 1 is a top plan view of hair clippers embodying this invention;

Fig. 2 is a side elevational view of the clippers of Fig. 1;

Fig. 3 is an end elevational view of the clippers of Fig. 1;

Fig. 4 is an enlarged fragmentary cross sectional view taken substantially along the lines 4—4 in Fig. 1;

Fig. 5 is a fragmentary side elevational view of the clippers with the combs or guides in extended position;

Fig. 6 is a fragmentary top plan view of the clippers with the guides in extended position;

Fig. 7 is a view similar to Fig. 6 with the guides set at an angle, and

Fig. 8 is a view illustrating the use of the clippers for producing a tapered cut.

A hair clipper embodying this invention and herein disclosed for illustration, comprises a hair clipping device of known construction, which may or may not be mechanically driven, and which is provided with adjustable guides as herein described. Referring to the drawings, this device comprises a clipper 10 having a body portion 11 which may contain an electrical motor and associated mechanical parts for driving a cutter head 12. Body 10 and cutter head 12 may be constructed according to any of the designs of the general character described which are commercially available and well known in the art.

Body portion 11 is formed with a pair of longitudinal grooves 13. A pair of laterally extending threaded studs 14 and 15 carrying knurled thumb nuts 16 and 17 is attached to the sides of body portion 11 in the center of grooves 13 as shown in Fig. 2. A pair of longitudinally extending slotted arms 18 and 20 are slidably mounted in grooves 13 with studs 14 and 15, respectively, extending through the slots thereof. Stud 14 and nuts 16 and 17 cooperate with grooves 13 and the slots in arms 18 and 20 to allow the latter to be adjusted longitudinally with respect to clipper body 11 for purposes hereinafter described. The outer ends of arms 18 and 20 are bifurcated to form two pairs of ears 22 and 24 on each side of the clipper body extending inwardly towards each other. A pair of combs or guides 28 and 30 are mounted on ears 22 and 24 by means of rivets 31 extending through holes 26 in the ends of ears 22 and 24.

The longitudinally extending intervals or slits 33 between the teeth of combs 28 and 30 allow hair to pass through to be engaged by cutter head 12. The ends of the comb teeth are adapted to engage and slide along the scalp, thereby holding cutter head 12 at a position spaced therefrom for clipping off the hair extending through slits 33 at a length depending on the distance the comb teeth extend beyond the cutter head. Since arms 18 and 20 are adjustable, the combs may be adjusted with respect to cutter head 12, thereby allowing the length of cut to be adjusted in advance.

Since each of arms 18 and 20 is independently adjustable, each end of combs 28 and 30 may be independently adjusted with respect to cutter head 12, thereby allowing the combs to be adjusted at an angle with respect to the cutter head, as shown in Fig. 7. One end of combs 18 and 20 is slotted as shown at 36 (Fig. 7) to allow lateral movement of rivets 31 that takes place when the comb is tilted as described above. When the clipper is so adjusted, it is moved across the scalp with both combs in contact with the scalp and the clipper extending at substantially right angles thereto as shown in Fig. 8. The adjustment of combs 28 and 30 serves to hold the clippers at a predetermined angle to the scalp, cutting the hair close to the scalp at one end and further from the scalp at the other, thereby producing a tapered cut.

When the clipper is adjusted to cut the hair very close to the scalp at one end and somewhat further from the scalp at the other as described above, and the clipper is moved transversely across the back of the subject's neck, a smooth and evenly tapered cut is automatically produced even in the most inexperienced hands. The degree of taper is predetermined by adjustment of arms 18 and 20 relative to each other, and the overall length of the hair cut may be predetermined by the adjustment of these arms. Thus, when it is desired to give a relatively short hair cut having a gradual taper from the back of the neck, arm 20 may be adjusted so that the ends of the teeth at one end of each comb is within, say, $\frac{1}{16}$ of an inch of the cutter head 12, as shown at "a" in Fig. 7, and arm 18 may be adjusted so that the ends of the teeth at the other

end of each comb is positioned, say, $\frac{3}{8}$ of an inch ("b" in Fig. 7) from the cutter head 12. The clippers are then moved transversely across the lower back part of the subject's head with arm 20 lowermost and arm 18 uppermost. When adjusted in this manner, the clipper automatically cuts a swath tapering from $\frac{1}{16}$ of an inch at the lower hair line to $\frac{3}{8}$ of an inch over the width of cutter head 12. When this has been done, arms 18 and 20 may be reset with the ends of the teeth at one end of the combs, say, $\frac{3}{8}$ of an inch from the cutter head, and at the other comb end, say, $\frac{1}{2}$ inch from the cutter head, and another pass is made across the subject's head adjacent to the cut already made. This will result in a swath parallel to, and in contact with, the previously made cut, tapering the subject's hair from $\frac{3}{8}$ of an inch to $\frac{1}{2}$ inch. The combs may now be adjusted parallel to the cutter head at $\frac{1}{2}$ inch distance, and the clipper may then be run across the subject's head clipping the hair at the top to a uniform length of $\frac{1}{2}$ inch. Additional cuts may be made with the combs adjusted to various lengths and tapers to finish the sides of the subject's head above the ears, as desired, thereby producing an even, finished, tapered hair cut even in the most inexperienced hands.

It will thus be seen that this invention accomplishes its stated objects. The combination of longitudinally and angular adjustment of the guides automatically produces a cut having the desired length and taper. The clippers are guided across the subject's scalp by means of the adjustable guides, thereby cutting the hair to precisely the desired length and taper even in the hands of an unskilled operator. The passage of the combs through the hair causes the latter to stand up at substantially right angles to the scalp prior to being cut, so that each hair will be uniformly cut at the proper predetermined length. The device is simple and easily adjusted, and is positive in operation, thereby allowing even inexperienced persons to produce neat and finished results.

While this invention has been herein disclosed by reference to the details of a preferred embodiment, it is to be understood that such disclosure is intended in an illustrative, rather than a limiting sense, as it is contemplated that various modifications in the construction and arrangement of the parts will readily occur to those skilled in the art, within the spirit of the invention and the scope of the appended claims.

I claim:

1. A hair clipper comprising hair clipping means, and guide means extending in advance of said clipping means for clipping hair at a predetermined length, means for adjusting said guide means longitudinally with respect to said clipping means for controlling the length to which the hair is clipped, and means for positioning said guide means at an angle to said clippers for producing a tapered cut.

2. A hair clipper comprising a hair cutting device having clipping means, and means for regulating the length of hair cut, said regulating means comprising a pair of comblike guide means positioned on each side of the cutting means and extending outwardly beyond said clipping means, a pair of brackets pivotally attached to each end of said guide means, means for slidably mounting said brackets on said hair cutting device, and means for independently adjusting the position of each of said brackets whereby the outer ends of said guide means may be longitudinally and angularly adjusted with respect to said clipping means.

3. A hair clipper comprising a mechanically driven hair cutting device comprising a body portion having a cutting head on one end thereof and adjustable guide means, said guide means comprising a pair of slotted brackets slidably mounted on each side of said body portion, means for releasably clamping said slotted brackets in adjusted position on said body portion, a pair of U-shaped extensions on the outermost end of said brackets, and a pair of guides pivotally mounted on said U-shaped extensions whereby said guides may be longitudinally and angularly adjusted with respect to said cutting head.

4. A hair clipper comprising a mechanically driven hair cutting device comprising a body portion having a cutting head on one end thereof and adjustable guide means, said guide means comprising a pair of slotted brackets slidably mounted in longitudinal grooves on each side of said body portion, screw means for releasably clamping said brackets in adjusted position on said body portion, a pair of inwardly extending U-shaped parts on the outermost part of said brackets, and a pair of guides pivotally mounted on said U-shaped parts on each side of said cutting head whereby said guides may be longitudinally and angularly adjusted with respect to said cutting head.

No references cited.