Dec. 25, 1951 D. E. KELLOGG ET AL 2,579,676

HAIR CUTTING DEVICE

Filed Feb. 15, 1949 2 SHEETS—SHEET 1

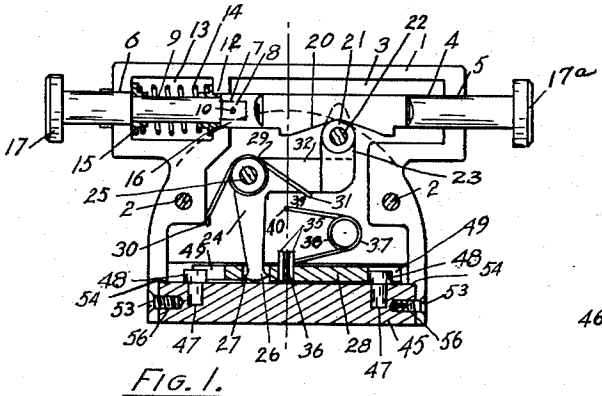


FIG. 1.

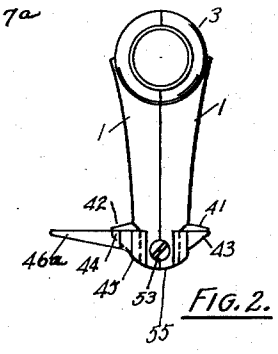


FIG. 2.

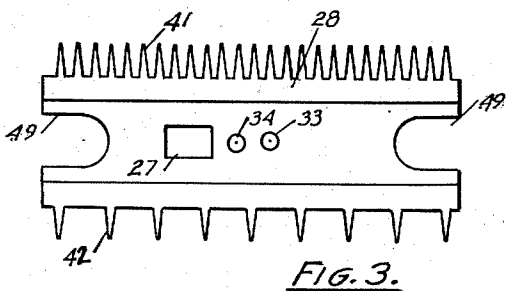


FIG. 3.

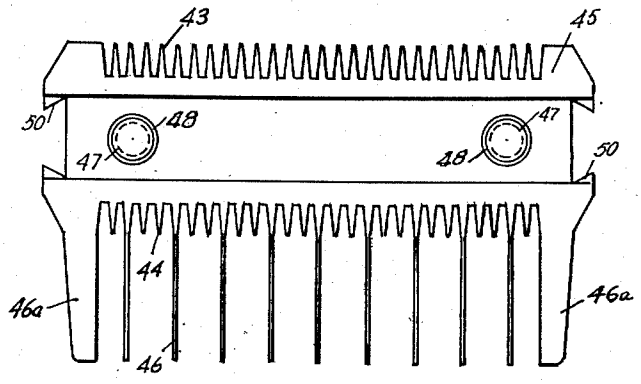


FIG. 4.

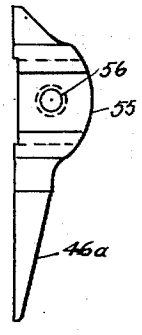


FIG. 5.

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HAIR CUTTING DEVICE

Filed Feb. 15, 1949 2 SHEETS—SHEET 2

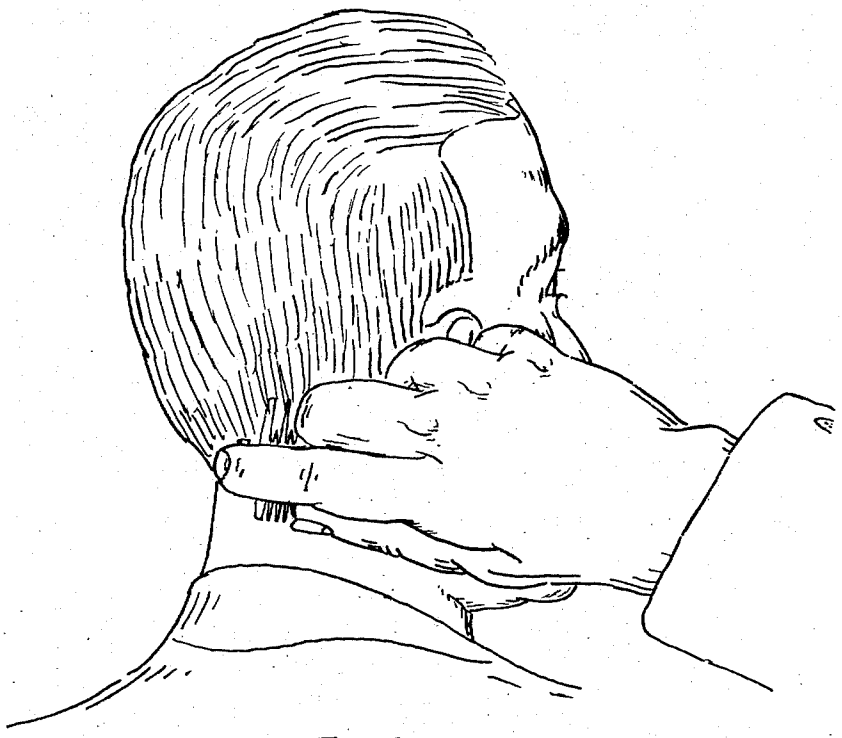


FIG. 6.

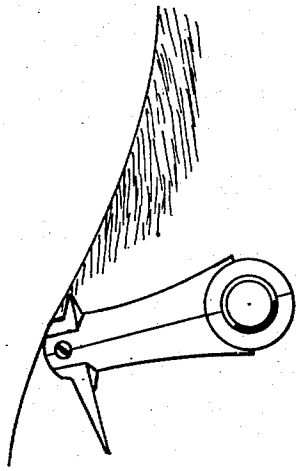


FIG. 7.

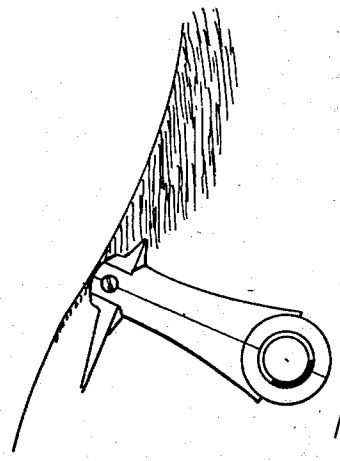


FIG. 8.

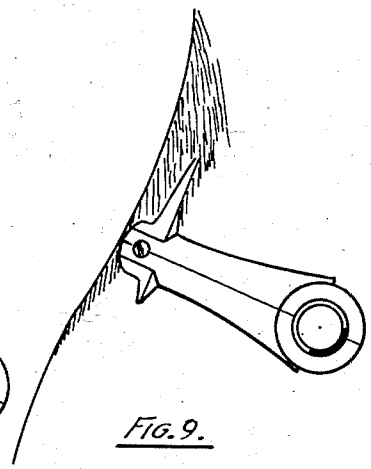


FIG. 9.

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# UNITED STATES PATENT OFFICE

2,579,676

## HAIRCUTTING DEVICE

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Application February 15, 1949, Serial No. 76,554

1 Claim. (Cl. 30—195)

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This invention relates generally to hair cutting devices and more particularly to a manually operated hair cutting device which may be utilized by a person to trim his own head of hair.

Hair cutting devices now on the market cannot be utilized by a person to cut his own hair inasmuch as they cannot be manipulated to trim the hair on the back of the head. It is practically impossible to taper the lower edges of a head of hair without leaving steps along the sides thereof by oneself.

It is, accordingly, an object of my invention to overcome the above and other defects in hair cutting devices for use on a person's own head of hair and it is more particularly an object of my invention to provide such a device which is simple in construction, economical in cost, economical in manufacture, and efficient in use.

Another object of my invention is to provide a hair cutting device which leaves no steps when trimming the hair on a person's head.

Another object of my invention is to provide a hair cutting device which can be readily operated to cut and trim hair on the back of a person's head or any other part thereof.

Another object of my invention is to provide a hair cutting device with a rounded head portion to facilitate the vertical tapering of the lower marginal portions of a head of hair.

Another object of my invention is to provide a hair cutting device which may be operated by the right or the left hand by means of a handle which is operable in two directions.

Other objects of my invention will become evident from the following detailed description, taken in conjunction with the accompanying drawings, in which

Fig. 1 is a vertical sectional view of my novel hair cutting device;

Fig. 2 is an end elevational view of my novel hair cutting device;

Fig. 3 is a plan view of the movable cutter of my novel hair cutting device;

Fig. 4 is a plan view of the stationary cutter of my novel hair cutting device;

Fig. 5 is an end elevational view of the cutter shown in Fig. 4;

Fig. 6 is a view illustrating the use of my novel hair cutting device in trimming the hair on the back of a person's head;

Fig. 7 is a side elevational view showing my novel cutting device with the cutting side in position for cutting hair;

Fig. 8 is a side elevational view of my novel hair cutting device showing the position of the

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cutting device and the condtion of the cut hair after the cutting device is moved a substantial distance from the bottom edge of a head of hair; and

Fig. 9 is a side elevational view of my novel hair cutting device with the trimming edge thereof engaging the longer hairs on the side of a head of hair.

Referring now to the drawings, I show in Figs. 1 to 5 inclusive a split, semi-circular shaped housing 1 connected together by screw bolts 2. One side of the housing 1 has a laterally, outwardly extending cylindrical housing 3 for receiving a cam shaft 4 having a handle 17a in apertures 5 and 6 thereof. The cam shaft 4 has a counterbore 7 for receiving the reduced end 8 of an extension 9 which is secured therein by a lock screw 10. A wall portion 12 in the casing 3 provides a chamber 13 in which is disposed a coil spring 14 surrounding the extension 9 and flanged collars 15 and 16 engage the ends of the coil spring 14.

The cam shaft 4 has cam portions 20 and 20a for engaging a cam roller 21 mounted on shaft 22 supported on upwardly extending crank arm 23 on arm 32 of bell crank 24. The crank 24 is pivoted on shaft 25 journalled in the sides of the casing 1. The lower end of the crank 24 is enlarged at 26 and it extends into a rectangular shaped, slotted portion 27 in a movable cutter 28. A spring 29 has one end 30 thereof abutting against the side of casing 1 and the other end 31 thereof bent at right angles underneath the arm 32 of crank 24 to urge the crank 24 to a position as shown in Fig. 1. The movable cutter 28 has longitudinally spaced apertures 33 and 34 for receiving pins 35. The bent end 36 of spring 37 is disposed between the pins 35, it is coiled at 38, and the opposite end 39 thereof is anchored in an aperture 40 in the side of the casing 1. The movable cutter 28 has normally spaced cutter teeth 41 on one side thereof and the teeth 42 on the opposite side thereof are spaced a distance equal to the distance between three of the cutter teeth 41. The cutter teeth 41 engage all of the cutter teeth 43 on the head 45 and the cutter teeth 42 engage a predetermined number of cutter teeth 44 on the head 45. Equally spaced comb teeth extensions 46 are formed on very third cutter tooth 44 to provide a comb to lift the hair to be trimmed. The head 45 also has laterally extending end portions 46a having substantially the same cross section as the comb teeth 46. The head 45 has spaced apertures 47 for receiving headed pins 48

which are received in the oppositely disposed U-shaped recesses 49 on opposite ends of the movable cutter plate 28, the pins 48 guiding the longitudinal movement of the cutter plate 28. Dove-tailed slots 50 are formed on opposite ends of the head 45 and are received by dove-tailed projections on the outer end of the casing 1. The head 45 has laterally extending, threaded apertures 56 for receiving screws 53 for securing the head 45 on the end of the casing 1. Shoulders 54 are provided in the casing 1 to seat the head 45. The outer end 55 of the head 45 is rounded to permit easy tapering of the hair by rotation of the casing 1 when it moves up the side of the head as shown in Figs. 7 and 8.

In operation, the teeth 42 on the head 45 are engaged with the lower edge of the hair as shown in Fig. 7 and the movable cutter plate 28 is reciprocated by successively pressing and releasing the handle 17 or 17a. Upon movement of the cam shaft 4 by pressing on handle 17 or 17a, the bell crank 24 is moved on its pivot 25 by cam surfaces 20 or 20a and roller 21 to cause movement in one direction of the cutter plate 28. Upon release of the handle 17 or 17a, the coil springs 29 and 37 force the cam shaft 4 to a neutral position shown in Fig. 1 thereby causing the movable cutter 28 to move in the opposite direction. As my novel cutting device is moved upwardly from the position shown in Fig. 7 to the position shown in Fig. 8, it is rotated on the rounded head thereof so as to provide any predetermined vertical taper of the hair desired. After the desired amount of hair is cut by the use of the cutting teeth 41 and 43 on the movable cutter 28 and the head 45 respectively, my novel cutting device is turned around and the comb teeth 46 and 46a engage the longer strands of the head of hair for the trimming thereof as shown in Fig. 9. The teeth 42 on the movable cutter 28 engage the teeth 44 on the head 45, the teeth 42 being spaced a distance equal to the distance between three teeth 44 on the head 45 so that no cutting will take place by a given proportion of the teeth 44 on the head 45. The teeth 41 will move over two teeth 44 on the head 45. Thus, only two-thirds of the amount of hair will be cut when the comb end of the head as shown in Fig. 9 engages the hair so that it minimizes the possibility of leaving steps in the hair when using the comb side of my device. The



number of teeth 42 on the cutter plate 28 may be varied to cut any given amount of hair when the comb teeth 46 move therethrough. The position of the teeth 42 may also be varied without limits to vary the amount of hair cut.

It will be evident from the foregoing description that I have provided a novel hair cutting device which may be manually operated, which may be utilized to cut a person's own hair, one in which the possibility of leaving steps after the cutting of the hair is minimized, and one in which a rounded head is so provided that the upward tapering of the hair is simplified.

Various changes may be made in the specific embodiment of my invention without departing from the spirit thereof or from the scope of the appended claim.

What we claim is:

A hair cutting and trimming device comprising a casing, a cutter head mounted on said casing having cutting teeth on opposite sides thereof, tapered, equally spaced comb teeth extending outwardly from some of the cutting teeth on one side of said head, a movable cutter having oppositely disposed cutter teeth in cutting relationship with the teeth on said head, and means for reciprocating said cutter, the teeth on said cutter in cutting relationship with the teeth on said head having comb teeth extensions being spaced a greater distance apart than the teeth which they engage whereby less than all of the teeth on the comb side of said head cut hair at the same time.

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