

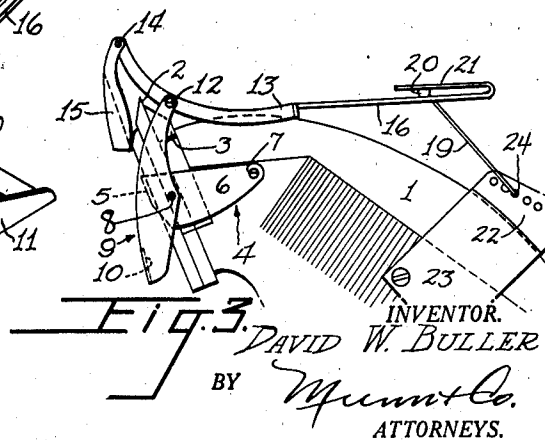
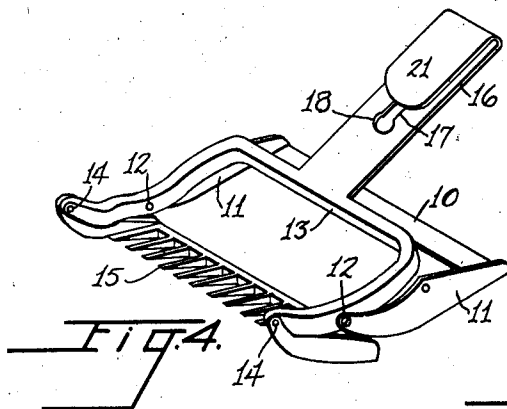
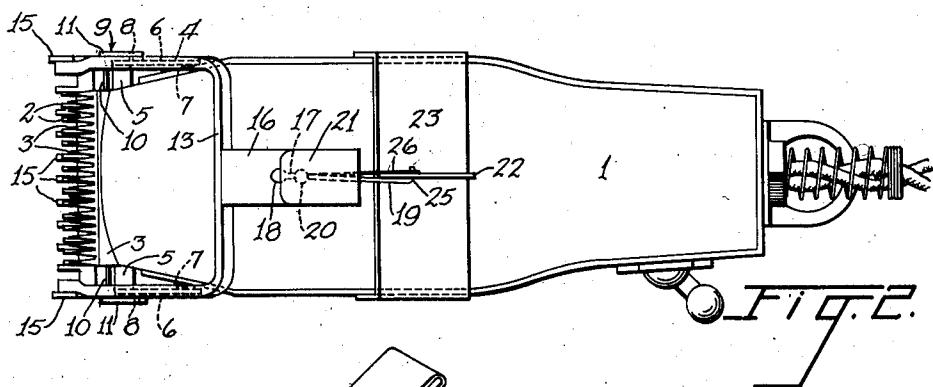
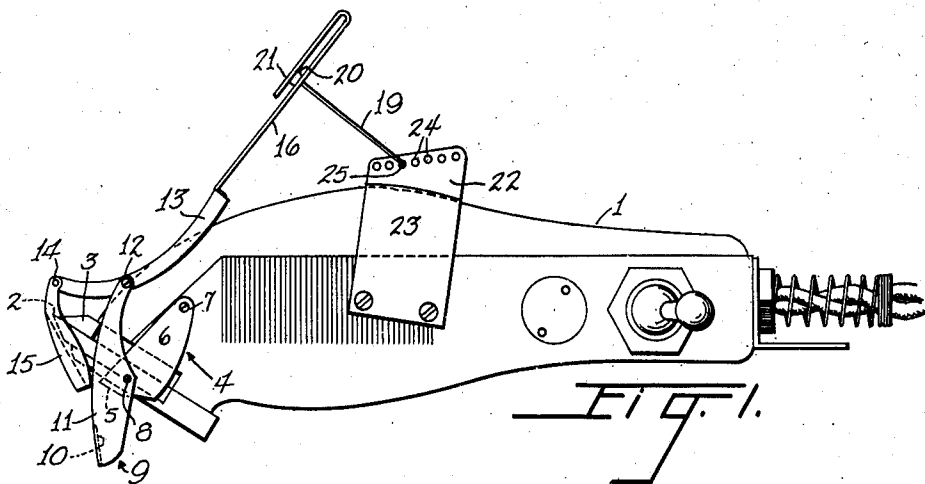
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D. W. BULLER

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AUTOMATIC HAIR CLIPPING ATTACHMENT

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## UNITED STATES PATENT OFFICE

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## AUTOMATIC HAIR CLIPPING ATTACHMENT

David W. Buller, Reedley, Calif.

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4 Claims. (Cl. 30—1)

My invention relates to improvements in automatic hair clipping attachments, and it consists of the combinations, constructions and arrangements hereinafter described and claimed.

5 An object of my invention is to provide an attachment for a hair clipper which will automatically and gradually move the cutters away from the head as the clipper is moved upwardly. The means for moving the cutters away from the head is controlled by the angular position 10 the clipper assumes with respect to the head. The device can be adjusted so as to change the cutting operation, that is a fine cut or a coarse cut may be effected, and still the automatic and 15 gradual moving away of the clipper from the head can be employed.

A further object of my invention is to provide a device of the type described which may be attached to a standard hair clipper without 20 altering the construction. The device is simple in construction, and is durable and efficient for the purpose intended.

Other objects and advantages will appear in the following specification, and the novel features of the device will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawing forming a part of this application, in which

30 Figure 1 is a side view of a hair clipper showing a device operatively applied thereto;

Figure 2 is a top plan view of the device;

Figure 3 is a side view similar to Figure 1, but showing the parts of the attachment in a different position; and

35 Figure 4 is a perspective view of the attachment per se.

In carrying out my invention I make use of a standard hair clipper indicated generally at 1. The clipper has an adjustable toothed guard 2, 40 and a reciprocating cutter 3 associated with the guard. The parts thus far described are standard and form no part of my invention except insofar as they cooperate with the parts now to be described.

45 The attachment comprises a U-shaped member 4 that has a portion 5 underlying the guard 2 and legs 6 which straddle the sides of the hair clipper, and are secured in place by screws 7 or other suitable fastening means.

50 The U-shaped member has pivot points 8 for receiving a spacing member 9. The member 9 is U-shaped and has a portion 10 (see Figures 1 and 4) for contacting with the person's head. Side 55 pieces 11 are integral with the portion 10 and

are pivoted to the U-shaped member 4 at 8. The side pieces 11 project beyond the pivots 8 and have their free ends pivotally secured at 12 to a forked member 13. The forked member 13 has its bifurcated end provided with pivots 14 and an auxiliary comb guard 15 is pivoted to the member 13.

The forked member 13 has a handle 16 provided with a slot 17 having an enlarged portion 18. A link 19 with a spherical head 20 has 60 its head passed through the enlarged slot portion 18. The link is slidably received in the slot 17, and the handle 16 has a portion 21 bent back upon itself for yieldingly engaging with the head 20. In this manner the head is adjustably secured to the handle and has a swinging move- 65 ment in a vertical plane.

The other end of the link 19 is removably secured to a base 22, the base in turn being carried by a U-shaped bracket 23 that is secured to the hair clipper 1. The base 22 has a plurality of openings 24 designed to receive the bent end 25 of the link 19 (see Figure 2). A spring 26 is secured to the link 19 and is disposed on the opposite side of the base 22 and in this way the link is adjustably secured to the base with freedom of swinging movement. Any other type of link connection between the base 22 and the handle 16 can be employed and I do not wish to be confined to the particular showing 70 just described.

75 From the foregoing description of the various parts of the device, the operation thereof may be readily understood.

When the operator wishes to clip close to the head the parts of the attachment are arranged in the position shown in Figure 1. The auxiliary comb guard 15 will be disposed adjacent to the guard 2, and this will permit a close clipping of the hair. The operator in now moving the hair clipper upwardly will at the same time slowly swing the clipper from the position shown in Figure 1 into the angular position shown in Figure 3. During this swinging of the clipper the spacing member 9 has its portion 10 kept in 80 contact with the head. The result will be a swinging of the member 9 in a counter-clockwise direction about the pivots 8. This will gradually move the auxiliary guard 15 away from the guard 2 and the result will be that the hair clipper will gradually keep cutting the hair at points 85 further and further away from the scalp.

It will, therefore, be seen by this attachment that the hair can be clipped so that it will be short at the base of the neck, and then will grad- 90

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ually lengthen at higher points on the head. The hair at the place where the clippers leave off cutting will be long enough to permit the operator to use the coarse end of a comb if he desires, and  
 5 scissors for cutting the rest of the hair. Without the attachment it is extremely difficult for the operator to clip the hair with the scissors so as not to show a line of demarcation between the place where the hair is clipped with the scissors  
 10 and the place where the hair is cut with the clippers.

It is obvious that the forked member 13 can be attached to the guard 2 by links not shown, and in this way have the guard 2 move and do away  
 15 with the auxiliary guard 15. It is also obvious that the link connection between the handle 16 and the base 22 can be disposed at the sides of the hair clipper instead of in the middle as illustrated.

20 While I have shown only the preferred form of my invention, it should be understood that various changes or modifications may be made within the scope of the appended claims without departing from the spirit of the invention.

25 The frame 6 can be adjusted laterally by the screws 7 for positioning the teeth 15 properly with respect to the teeth 2. The swinging of the clipper body from the position shown in Figure 1 into the position shown in Figure 3 will not only  
 30 move the guard 5 away from the clipper teeth 2 so as to increase the distance between the guard and teeth, but the guard will be moved forwardly in advance of the teeth 2. This will cause the guard to ride over any bump in the head or roll  
 35 of flesh and to prevent the clipper teeth from cutting too close, and the result will be a uniform shingling of the hair.

I claim:

1. The combination with a hair clipper having  
 40 reciprocating teeth, of a spacer pivoted to the clipper and designed to bear against a person's head, a guard also designed to bear against the head, and means pivotally connected to the clipper and connecting the guard with the spacer  
 45 for positioning the guard close to the clipper teeth when the clipper body is disposed substantially perpendicular to the surface being clipped, whereby a close clipping of hair is accomplished, the guard being gradually moved further away  
 50 from the teeth as the clipper body is gradually swung toward a plane paralleling the surface being clipped, the guard and spacer continuously

contacting with the head during this swinging movement of the clipper body and being slidable over the head, whereby a shingling of the hair is effected, the abruptness of the shingling depending upon how rapidly the clipper body is  
 80 swung about the spacer and guard as the clipper is moved along the surface.

2. The combination with a hair clipper having reciprocating teeth, of a spacer pivoted to the clipper and designed to slide over the head, a fork  
 85 pivoted to the spacer, an adjustable link connecting the fork with the clipper body, and a guard pivoted to the fork and designed to contact with a person's head, whereby the spacer and guard  
 90 constitute a frame held against the head by the barber during the clipping operation, the clipper body being swingable in the frame by the barber independent of the movement of the frame over the head, the swinging of the clipper body varying  
 95 the distance of the clipper teeth from the head in direct ratio to the angular position of the body in the frame.

3. The combination with a hair clipper having reciprocating teeth, a spacer pivoted to the clipper and designed to slide over the head, a fork  
 100 pivoted to the spacer, a link pivoted to the fork and adjustably pivoted to the clipper, and a guard pivoted to the fork and designed to slide over the head, said guard gradually increasing the distance  
 105 between the head and the teeth as the clipper is gradually swung from a position substantially perpendicular to the surface of the head into a position where the clipper is substantially at an angle of 45° to the person's head.

4. The combination with a hair clipper having  
 110 reciprocating teeth, of a spacer pivoted to the clipper and designed to ride over the head, a guard designed to ride over a person's head, and means pivotally connected to the clipper and connecting the guard with the spacer for positioning  
 115 the guard close to the clipper teeth when the clipper body is disposed substantially perpendicular to the surface being clipped, the guard being gradually moved away from the teeth and also forwardly of the teeth as the clipper body is  
 120 gradually swung toward a plane substantially paralleling the surface being clipped, the guard and spacer continuously contacting with the head during this swinging movement of the clipper body.

DAVID W. BULLER.

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