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V. L. MALEEV

2,013,279

ATTACHMENT TO A HAIR CLIPPER

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Fig. 1

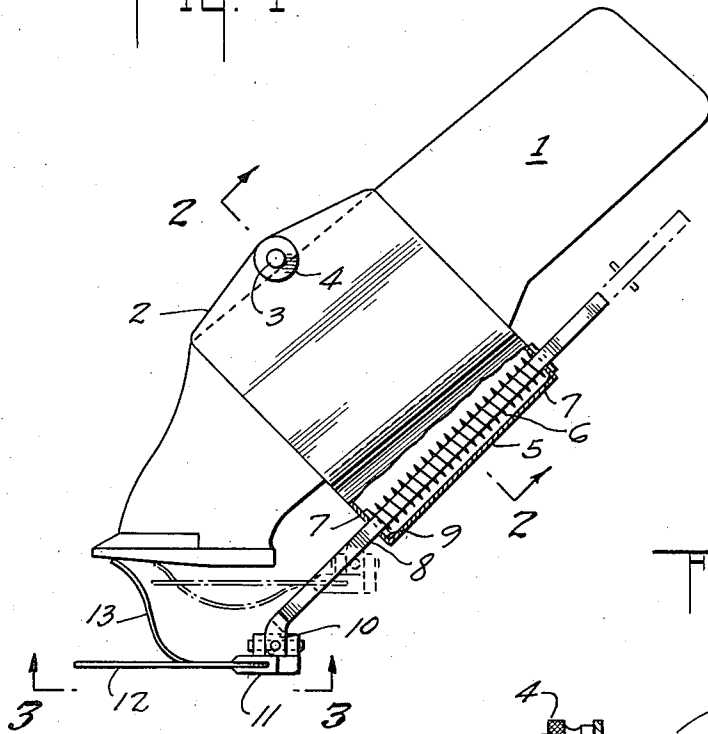


Fig. 2

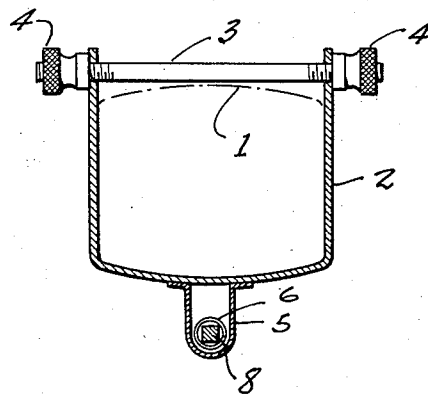
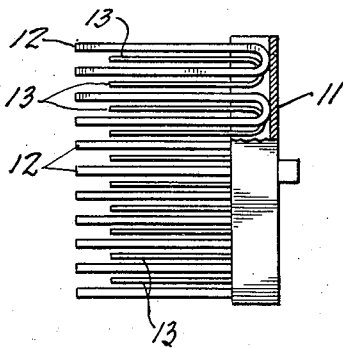


Fig. 3



INVENTOR

Vladimir L. Maleev.

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ATTACHMENT TO A HAIR CLIPPER

Vladimir L. Maleev, Los Angeles, Calif.

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7 Claims. (Cl. 30—1)

This invention comprises a device designed to be attached to clippers for cutting hair, fiber, threads and similar materials covering a surface and has for its object to provide means for regulating the length to which the hair, fiber, etc. can be cut, particularly to have this length changed gradually during the cutting. This invention can be used in connection with any hair clipper of usual construction but is particularly adapted to be used in connection with electric or electro-magnetic clippers. Although designed as an attachment it also can be incorporated into and made part of a hair clipper.

This invention will be described now with reference to the accompanying drawing which shows a practical embodiment of it and in which:

Figure 1 is a side elevation partly in section of an attachment made according to this invention;

Figure 2 is a cross section of the upper part of the attachment;

Figure 3 is a bottom view of the lower part of the attachment.

In the illustrated example, the attachment comprises a U-shaped frame 2 which fits over a standard clipper 1; a threaded rod 3 with knurled nuts 4 helps to secure frame 2 firmly to clipper 1, Figs. 1 and 2. A U-shaped box 5 is fastened to the back of frame 2 and holds a spiral spring 6; the end plate 7 of box 5 has a square opening which acts as a guide for a square rod 8; pin 9 acts as a lower spring seat and compresses spring 6 when rod 8 is pushed upward. The lower end of rod 8 is fastened to a universal joint 10, which in turn is fastened to a U-shaped plate 11 which forms the back of a comb; the comb has teeth 12 fastened to plate 11; S-shaped, very flexible springs 13 are fastened to the same plate 11. In order to facilitate the fastening of the springs 13 to the plate these springs can be made in pairs, U-shaped, Fig. 3, the rear, flat U-part insuring the correct position of the free ends. The rigid teeth 12 can be made also in pairs, U-shaped, Fig. 3, to help their fastening to the plate. The upper, free ends of springs 13 rest upon the stationary cutting plate of the hair clipper. The length of teeth 12, angle of incline of rod 8 and length and shape of springs 13 are so selected that when plate 11 is pressed against the surface from which the hairs are cut and rod 8 is pushed upward the free ends of teeth 12 and springs 13 move backward in reference to the edge of said cutting plate of the clipper until they assume position shown in dotted lines, Fig. 1, leaving the forward edge of

said cutting plate free and thus allowing to cut the hair to the same length to which the hair clipper can cut without this attachment. Decreasing the pressure applied by the operator to the plate 11 will result in moving of this plate away from the hair clipper and in increasing the length to which the hair is being cut.

The universal joint permits tilting of the clipping plate in reference to the comb plate both sideways and forwards which helps to obtain a gradual change of the length of the hair to be cut.

Springs 13 have a double function: First they act as additional flexible comb teeth, help to keep the hair up and thus to bring it to the hair clipper plates and to insure proper length of cutting; second they keep the comb parallel to the clipper cutting plate and bring it back to this position when it is tilted by the operator.

While I have herein shown one form of carrying my invention into effect, yet I do not want to limit myself to these details of construction but claim the right to use any and all modifications thereof which will serve to carry into effect the objects to be attained by this invention in so far as such changes may fall within the scope and spirit of my invention, particularly if the device is fastened to the hair clipper in a different way or if the starting position of the comb is its position nearest to the cutting plate and a mechanism is used to move the comb away from the clipper, or if the universal joint connecting the comb and push rod is changed to a simple hinge or to a solid connection, or if the whole device is made part of a hair clipper.

What I claim is:

1. A frame with means to attach it to a hair clipper, a guide fastened to said frame, a rod slidably and non-rotatably mounted in said guide, a comb hingedly fastened to said rod, by a double-hinge connection which allows tilting of the comb upward and sideways.

2. A frame with means to attach it to hair clipper, a guide fastened to said frame, a rod slidably and non-rotatably mounted in said guide, a plate hingedly fastened to said rod, teeth fastened to said plate so as to form a comb, S-shaped springs with one end fastened to said plate, said springs bent so that their free ends rest upon the stationary cutting plate of the clipper.

3. A frame with means to attach it to a hair clipper, a guide fastened to said frame, a rod slidably and non-rotatably mounted in said guide, a comb hingedly fastened to said rod by means

of a double-hinge connection which allows tilting of the comb sideways and upward, S-shaped flexible springs with one end fastened to a plate of the comb, said springs bent so that their free ends rest upon the stationary cutting plate of the clipper; said springs normally returning said comb from a tilted position back to its starting position.

4. A frame with means to attach it to a hair clipper, a guide fastened to said frame, a rod slidably and non-rotatably mounted in said guide, a comb fastened to said rod by means of a universal joint, which allows tilting of said comb sideways and upward, a spring which pushes said comb away from the hair clipper, said comb having a back plate fastened to said universal joint, and two sets of teeth fastened to said back plate; one set of rigid teeth, the other set of flexible teeth; said flexible teeth bent S-shaped, their free ends resting upon the stationary cutting plate of the clipper; said teeth being made in pairs, U-shaped to facilitate their proper fastening to said back plate.

5. A frame with means to attach it to a hair clipper, a guide fastened to said frame, a rod

slidably and non-rotatably mounted in said guide, a comb hingedly fastened to said rod, said comb having two sets of teeth, rigid teeth and flexible teeth, said rigid teeth being made in pairs, U-shaped, said flexible teeth extending into contact with the stationary cutting plate.

6. A frame with means to attach it to a hair clipper, a guide fastened to said frame, a rod slidably and non-rotatably mounted in said guide, a comb hingedly fastened to said rod, said comb having two sets of teeth, rigid teeth and flexible teeth, said flexible teeth being made in pairs, U-shaped, and extending into contact with the stationary cutting plate.

7. A frame with means to attach it to a hair clipper, a guide fastened to said frame, a rod slidably and non-rotatably mounted in said guide, a comb hingedly fastened to said rod, said comb having two sets of teeth, rigid and flexible, said teeth being made in pairs, U-shaped, to facilitate their fastening to said comb, the flexible teeth extending into contact with the stationary cutting plate.

VLADIMIR L. MALEEV.

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