J. J. McDONOUGH.

HAIR CUTTING DEVICE.

APPLICATION FILED MAR. 17, 1915.

1,190,182. Patented July 4, 1916.

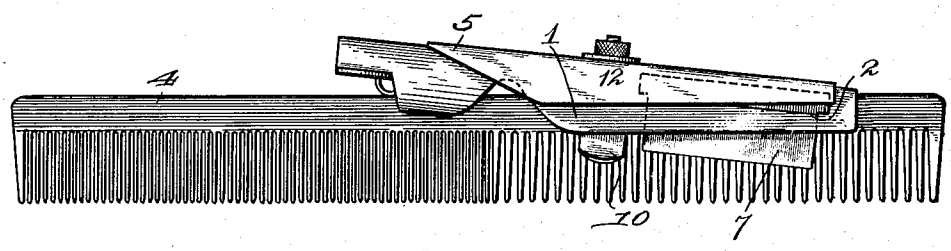


Fig. 1.

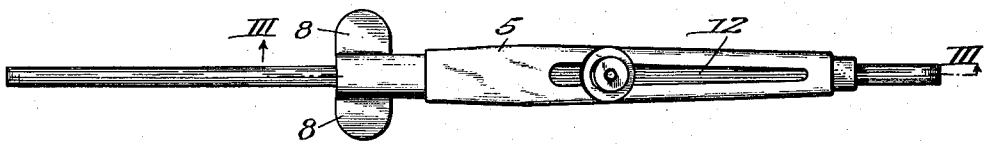


Fig. 2.

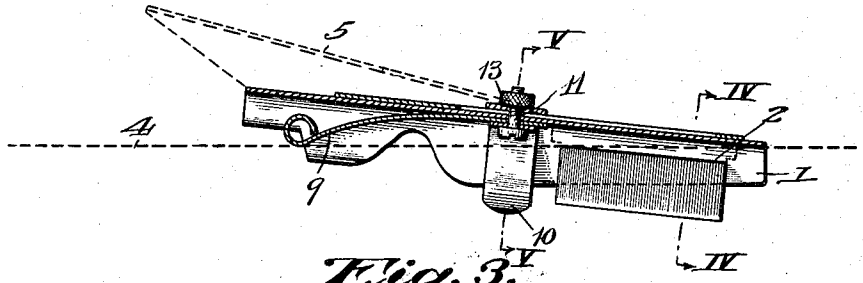


Fig. 3.

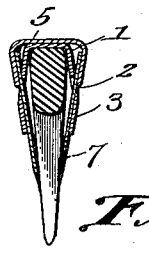


Fig. 4.

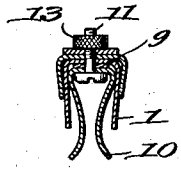


Fig. 5.

Witnesses

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HAIR-CUTTING DEVICE.

1,190,182. Specification of Letters Patent. Patented July 4, 1916.

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To all whom it may concern:

Be it known that I, JOSEPH J. McDONOUGH, a citizen of the United States, residing at Rochester, in the county of Beaver and State of Pennsylvania, have invented certain new and useful Improvements in Hair-Cutting Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to hair-cutting devices and the object thereof is to improve the construction and consequent operation of such devices to the end that a person may easily and effectively cut or trim his own or another's hair.

In the accompanying sheet of drawings, which forms part of my specification, I have illustrated the preferred embodiment of my invention.

Figure 1 is a side elevation of the complete device; Fig. 2 a top plan view thereof; Fig. 3 a sectional view taken on the line III—III, Fig. 2, the back of the comb being indicated by a dotted line; and Figs. 4 and 5 sectional views taken, respectively, on the lines IV—IV and V—V, Fig. 3.

In the practice of my invention I provide a hair comb, and at its side and through the instrumentality of a suitable casing, I yieldingly attach a cutting blade in such a manner that when the device is used for its intended purpose the blade will, because of the variable cutting resistance, vibrate in the plane of its general extent and parallel to the side of the comb. Also, the attachment of the blade to the comb is preferably such that the blade will vibrate laterally with respect to the side of the comb.

Referring to the embodiment of my invention shown in the drawings, the comb 4 may be of any suitable form. Preferably a blade 7 is placed at each side of the comb, the edge of one blade being slightly in advance of that of the other, as shown in Fig. 4, and the cutting edges being at an angle to the line of the points of the comb's teeth. The casing for the blades comprises a U-shaped resilient member 1, having slots 2 to receive the blades, and a similarly shaped blade-locking member 5, provided with a slot 12, and adapted to be clamped to the first-named member 1 by means of a screw 11 and nut 13. To remove or replace the blades 7 (the nut 13 being loosened), the member 5 is moved to the dotted line position shown in Fig. 3 thus exposing the slots 2 of the member 1 so that the blades may be inserted therein, after which the member 5 is moved to the position indicated in Figs. 1 and 2 and the nut tightened to clamp the parts together and hold the blades firmly in the casing.

To effect the above mentioned vibratory actions of the blades, the casing is secured to the comb by means of a yielding yoke or spring clips 10 which are engaged by the head of the screw 11, and a leaf spring 9, also engaged by the screw 11, projects rearwardly of the blades 7 and bears at its outer end on the back of the comb 4, indicated by a dotted line in Fig. 3. It will be readily observed of this construction, that the blade casing may be slid longitudinally of the comb to any desired position, and that the casing may have a rocking movement on the comb, such movement being about the spring clips 10 as a center and resisted by the spring 9.

When using my improved hair cutting device, it may be held in either hand by grasping the left end of the comb as viewed in Figs. 1 and 2. As the device is moved down through the hair, the variable cutting resistance, which is counteracted by the spring 9, causes the blades to rock or vibrate parallel with the sides of the comb. The hair is thus cut partly by a direct pull and partly by this chopping action of the blades. Furthermore, this vibrating action also frees the device of a relatively large portion of the cut hair which might otherwise lodge between the blades and the comb. The cut hair that is not removed by such vibratory action may be removed by pressing the rear end of the casing downwardly against the resistance of the spring 9, and for this purpose the member 1 is provided with laterally projecting lugs 8. The attachment and resiliency of the clips 10, as well as the resiliency of the casing member 1, permit also of a limited lateral movement or vibration of the blade, which when the

device is in use, is adjacent to the person's head. This movement I find to be of very material importance to the successful operation of devices of this character.

I claim as my invention:

1. In a hair-cutting device, the combination of a comb, a casing provided with a blade held at a side of the comb, a single connector attached to the casing and engaging the comb at a single point thereof and permitting the casing to rock about such point, and a resilient member between the casing and comb for resisting such rocking movement of the casing.

2. In a hair-cutting device the combination of a comb, a casing provided with a pair of spring clips engaging the back of the comb and permitting a rocking movement of the casing on the comb, a blade carried by said casing at one side of said clips, and a spring secured to the casing and bearing on the back of the comb at the other side of said clips.

3. In a hair-cutting device, the combination of a comb, an elongate U-shaped inner casing member provided with a blade, a correspondingly shaped outer casing member movable longitudinally upon and cooperating with said inner member to hold said blade at a side of the comb, spring clips secured to the casing members and engaging the back of the comb, said clips permitting of a rocking movement of the casing, and resilient means for resisting such rocking movement.

4. In a hair-cutting device, the combination of a comb, a casing provided with a pair of blades held one on each side of said comb, the cutting edge of one blade being in advance of that of the other, means for pivotally attaching the casing to the comb, and resilient means for holding the blades yieldingly toward the toothed edge of the comb.

5. In a hair-cutting device, the combination of a comb, a pair of blades disposed one at each side of the comb, a casing comprising inner and outer elongate members movable longitudinally of each other and coöperating with each other to hold said blades in said positions, a spring clip within the inner casing member and engaging the back of the comb, a clamping screw engaging said casing member and clip, and a spring for holding the blade-provided portion of the casing yieldingly toward the toothed edge of the comb.

In testimony whereof I have affixed my signature in the presence of two witnesses.

JOSEPH J. McDONOUGH.

Witnesses:
J. K. Moore,
Robt. E. Barry.