May 7, 1940. W. BURCH 2,200,150

CLIPPER BLADE

Filed June 28, 1939

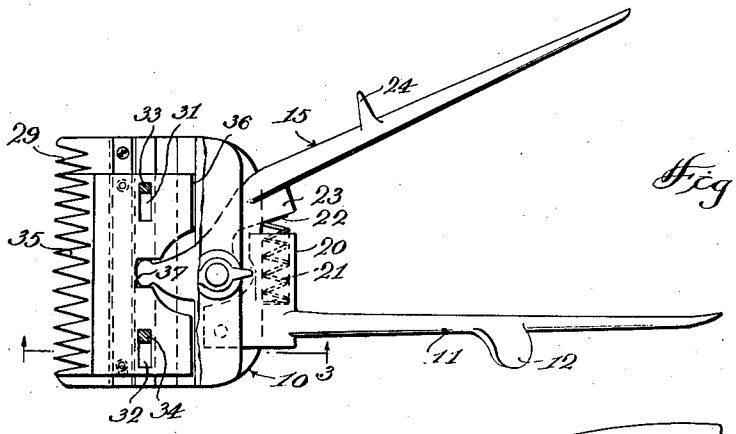


Fig. 1.

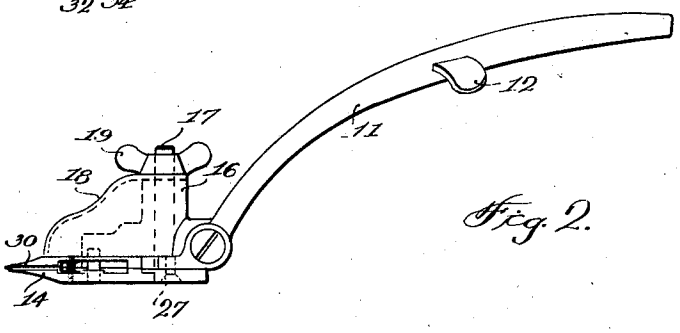


Fig. 2.

Fig. 3.

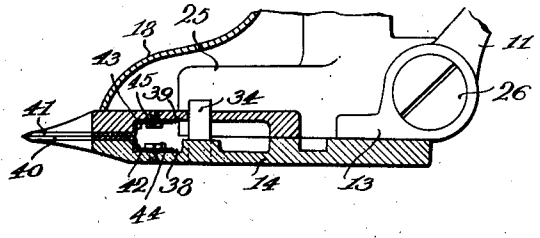
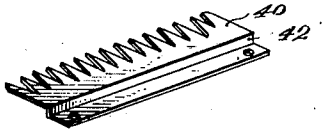


Fig. 4.



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2,200,150

CLIPPER BLADE

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Application June 28, 1939, Serial No. 281,733

1 Claim. (Cl. 30—223)

My invention relates to new and useful improvements in hair clippers.

An important object of my invention is to provide a hair clipper wherein the cutter bodies are provided with removable blades which may be easily and expeditiously replaced when they become used or worn.

Another object of my invention is to provide a hair clipper wherein the blades are readily removable to permit blades having varying sizes of teeth to be easily attached thereto or removed therefrom.

Still another object of my invention is the provision of a hair clipper wherein the blades may be inexpensively manufactured and wherein the cutter bodies are unique in their construction in a manner whereby the blades may be discarded when dull and new ones substituted therefor.

Yet another object of my invention is to provide a hair clipper that is efficient in operation, and durable and efficacious in the performance of its duties.

Other objects and advantages of my invention will be apparent during the course of the following description.

In the drawing, forming a part of this specification, and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a top plan view of a hair clipper constructed in accordance with my invention,

Figure 2 is a side elevation thereof,

Figure 3 is a fragmentary vertical sectional view, taken on the line 3—3 of Figure 1, and

Figure 4 is a perspective view of a removable blade embodying a part of my invention.

In the accompanying drawing, wherein for the purpose of illustration, is shown a preferred embodiment of my invention, the numeral 10 designates a main frame or stock including a fixed handle 11 having a laterally projecting thumb support 12 at substantially the middle thereof, and formed with a forwardly projecting angularly disposed base 13 to which the fixed cutter body 14 is attached.

The movable handle 15 is pivotally mounted to the stock 10 and is formed with a hub portion 16 at its lower end. The screw threaded pin 17, carried by the fixed stock 10, projects upwardly through the hub portion and through the cap plate 18 to receive the adjustable wing nut 19. The stock 10 is formed with a laterally extending tubular projection 20 at the root of the handle 11 which receives the coil spring 21. The set screw 26 is threaded into the outer end of the tubular projection 20 to vary the tension on the spring 21 and the end 22 of the said spring engages the shoulder 23 of the movable handle 15 so that the handles 11 and 15 may be gripped in the hand of the user who may, by constricting his grip, move the handles toward each other against the action of the spring 21, and when his grip is released the resilient action of the spring will force the handles into the normally extended position. The movable handle 15 is formed with a finger support 24 which extends laterally therefrom at substantially the middle thereof, and the portion of the handle forwardly of the hub 16 is formed into a forward projection 25.

The fixed cutter body 14 is fixedly secured to the base 13 of the stock 10 by means of the screws 27 and the forward edge 28 thereof is formed with a plurality of teeth 29. The movable cutter body 30 is provided with elongated slots 31 and 32 at substantially the middle thereof which receive the posts 33 and 34 projecting upwardly from the fixed cutter body 14. The forward edge of the movable cutter body is similarly formed with a plurality of teeth 35 which cooperate with the teeth 29 in the fixed cutter body to gather the hair and direct the same into the cutting blades. The rear edge 36 of the movable cutter body 30 is formed with a notch 37 which receives the projection 25 on the movable handle 15 and permits a reciprocatory motion to be imparted thereto within the limits defined by the slots 31 and 32, upon actuation of the handles 11 and 15.

The fixed cutter body 14 and the movable cutter body 30 are formed with grooves 38 and 39 respectively in their adjacent faces, and the rear portion of the blades 40 and 41 are offset, as at 42 and 43, to permit the same to be accommodated within the grooves and to be securely held therein by the screws 44 and 45. The forward edges of the upper and lower blades are formed with teeth adapted to overlie the teeth in the fixed and movable cutter bodies 14 and 30, respectively, and to perform the actual cutting operation. The teeth of the stationary and movable cutter bodies merely function to separate the bunches of hair and to spread the same in a fan formation to direct the same between the teeth of the blades in a manner whereby the cutting edges thereof may sever the hair. The cap plate 18 bears against the movable cutter body 30 in a manner to hold the blade 41 carried thereby in close frictional engagement with the cooperative cutting blade 40 carried by the fixed cutter body 14.

It is a well known fact that when clippers be-

come dull it is necessary that the adjacent faces of the cutters be ground in order to sharpen the same. After each grinding process the teeth become thinner and the cutting action thereof may vary considerably. In the application of the present device, the blades 40 and 41 may be inexpensively manufactured and, when the ones being presently used have become dull, they may be removed by the simple expedient of removing the cap plate 18, lifting the movable cutter body 30 from engagement with the posts 33 and 34, and detaching the blade therefrom and from the fixed cutter body 14. The new blades may then be easily and expeditiously attached thereto and the device reassembled.

It may also be seen that by removing the screws 27 the operator may substitute cutter bodies having varying sizes of teeth to the one frame or stock and will, in effect, be relieved from the necessity of having to keep a plurality of clippers constantly on hand, but may instead keep a number of the cutter bodies and blades therefor and each may be easily and expeditiously attached to the single frame or stock.

It is to be understood that the form of my invention, herewith shown and described, is to be taken as a preferred example of the same, and that various changes in the size, shape and arrangement of parts may be resorted to without departing from the spirit of my invention, or the scope of the appended claim.

Having thus described my invention, I claim:

The combination with a hair clipper frame of the type including cooperative handle portions, one of said handle portions comprising a fixed member and the other of the handles being pivotally mounted thereto and having a forward projection to engage and actuate a movable cutter body; of a stationary cutter body fastened to the fixed handle member, said cutter body having a plurality of teeth along its forward edge, and a transverse groove in its upper face; a movable cutter body slidably mounted on the fixed cutter body having a plurality of teeth at its forward edge and a transverse groove in its bottom face, said cutter body having a rearward recess to receive the forward projection of the movable handle; and blades detachably carried by the said first and second-mentioned cutter bodies and having teeth adapted to register with the cutter teeth and to cooperate therewith in the cutting of the hair, and with the rear edges thereof lockingly received in the lateral grooves of the cutter bodies.

WARREN BURCH.