

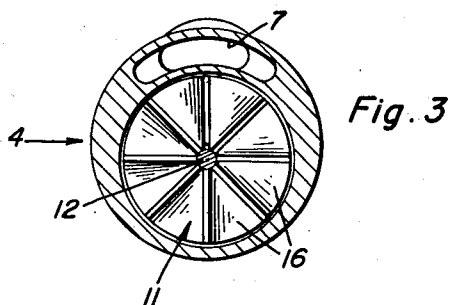
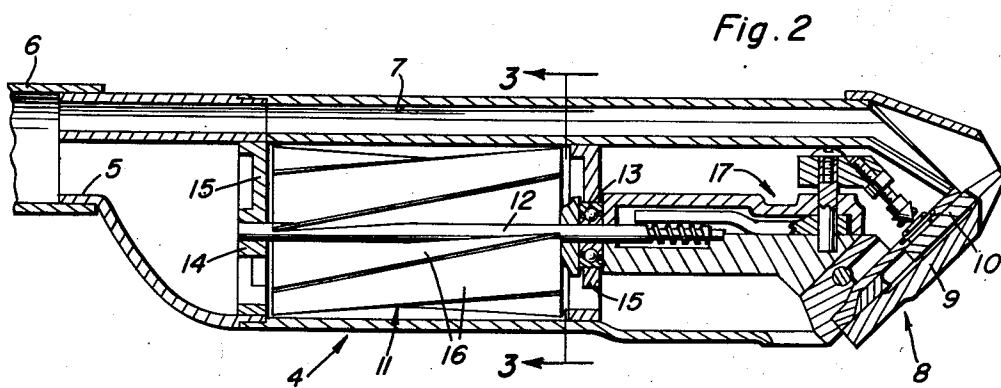
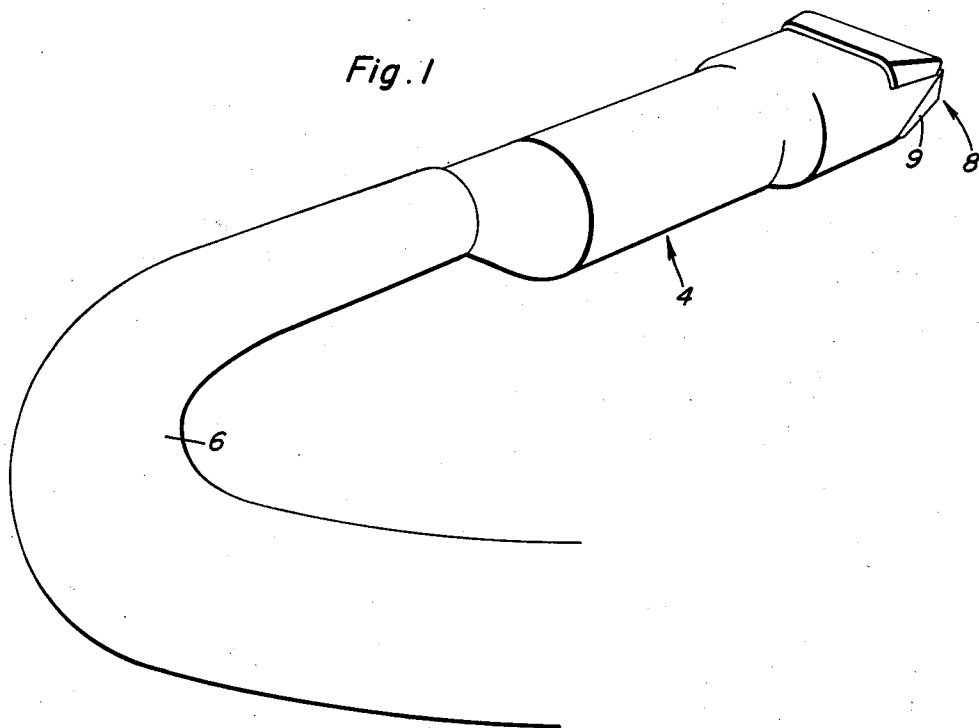
Sept. 24, 1957

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2,807,086

HAIR CLIPPER

Filed Dec. 12, 1955



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2,807,086

HAIR CLIPPER

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Application December 12, 1955, Serial No. 552,319

1 Claim. (Cl. 30—133)

The present invention relates to new and useful improvements in hair clippers of the power type and has for its primary object to provide, in a manner as hereinafter set forth, a device of this character comprising novel means for pneumatically actuating the cutting mechanism and for removing the cut off hair.

Another very important object of the invention is to provide a power hair clipper of the aforementioned character which may be readily connected to any suitable convenient suction means such, for example, as a conventional vacuum cleaning machine or system.

Other objects of the invention are to provide a vacuum operated power clipper of the character described which will be comparatively simple in construction, strong, durable, compact, of light weight, highly efficient and reliable in use and which may be manufactured at low cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of a hair clipper constructed in accordance with the present invention;

Figure 2 is a view in vertical longitudinal section through the device; and

Figure 3 is a cross-sectional view, taken substantially on the line 3—3 of Figure 2.

Referring now to the drawing in detail, it will be seen that the embodiment of the invention which has been illustrated comprises an elongated tubular casing of plastic or other suitable material which is designated generally by the reference character 4. The casing 4, which may be of any desired dimensions, is open at both ends. At its rear or inner end, the casing 4 terminates in a reduced, circular discharge neck 5 for connecting to said casing the small end of a tapered, flexible suction tube 6. Formed longitudinally in the upper portion of the casing 4 and extending from end to end thereof and communicating with the suction tube 6 is a hair passage or duct 7.

Mounted on the forward end of the casing 4 is a removable head assembly 8. The head assembly 8 includes a suitable stationary blade 9 which is cooperable with a reciprocating blade 10.

The casing 4 encloses a suction motor which is designated generally by the reference character 11. The motor

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11 includes a longitudinal shaft 12 journaled in front and rear bearings 13 and 14, respectively, in skeletonized supports 15 which are provided therefore in the casing 4. The motor 11 further includes spiral blades 16 which are affixed to the shaft 12 between the supports 15. A suitable drive mechanism 17 in the forward portion of the casing 4 operatively connects the shaft 12 of the motor 11 to the reciprocating blade 10 of the assembly 8.

It is thought that the use or operation of the clipper will be readily apparent from a consideration of the foregoing. Briefly, the large end of the flexible, tapered tube 6 is connected to a suitable source of suction such, for instance, as the intake side of a vacuum cleaning machine. It will be observed that both the tubular casing 4 and the hair passage or duct 7 are in communication with the suction tube 6. Thus, with the vacuum cleaning machine in operation, air is drawn through the tubular casing 4 for actuating the motor 11 thereby driving the reciprocating blade 10 through the mechanism 17 for cutting the hair in an obvious manner. Also, air is drawn through the passage or duct 7 for removing the hair as it is cut.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

A vacuum-operated hair clipper comprising, in combination, an elongated hollow casing, a bladed cutter head operatively mounted on the forward end of the casing, said casing having parallel, longitudinal large and small non-communicating air passages therein constantly open at both ends, said small air passage tapering from one end to the other end and having its larger intake end disposed in close proximity to and above the blades of the cutter head for collection and reception of the clipped hair from said cutter blades, a bladed suction motor mounted and confined for operation in said large air passage, means secluded in the large passage operatively connecting said suction motor to the blades of said cutter head, said large passage having its air intake end portion disposed on the casing at a side on said casing opposite to the air intake end of said small air passage, whereby the hair-laden air is sucked at the point of cutting of the cutter blades is isolated and disposed of separate from air which is used in, at the same time, operating said motor, and a single suction tube connected to the rearward end of the casing and communicating with the discharge end of both of the passages.

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