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C. L. VOLZ

2,582,807

SHAVING DEVICE

Filed June 26, 1948

FIG. 1.

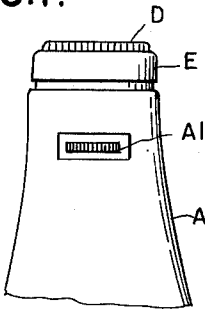


FIG. 2.

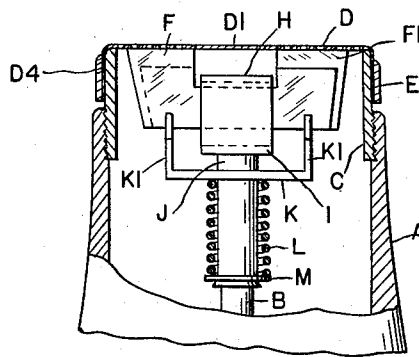


FIG. 4.

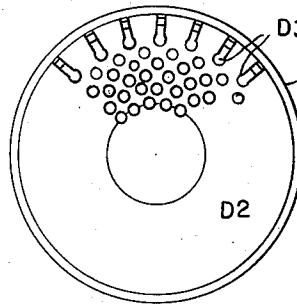
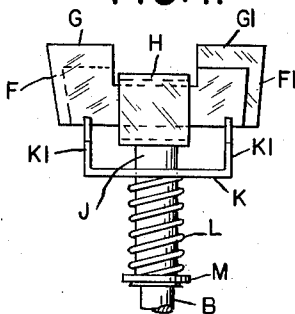


FIG. 3.

FIG. 5.

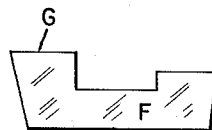
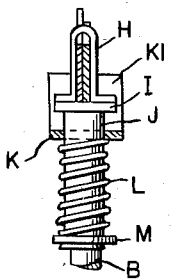


FIG. 6.

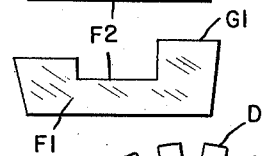


FIG. 7.

FIG. 8.

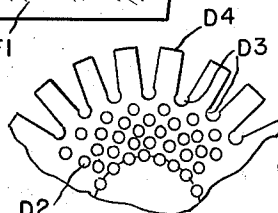
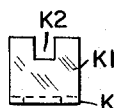


FIG. 9.

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UNITED STATES PATENT OFFICE

2,582,807

SHAVING DEVICE

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Application June 26, 1948, Serial No. 35,471

1 Claim. (Cl. 30—43)

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The present invention relates to so-called "dry shavers," that is, to motor driven devices designed to clip the beard close to the skin as distinguished from razors or the like which cut or slice the hair or beard.

Among the objects of the present invention is the improvement of the device shown in my U. S. Letters Patent No. 2,341,833, issued February 15, 1944, whereby to decrease the cost of construction and increase the efficiency of operation.

Another object of the invention is to provide an improved means for mounting the shear plate of such devices.

Still another object is to provide an improved blade, more readily assembled in and disassembled from the drive means.

Other objects will readily occur to those skilled in the art upon reference to the following description and the accompanying drawings in which

Fig. 1 is an elevation of the shaving head end of a dry shaver including the present invention.

Fig. 2 is a central vertical section of the same.

Fig. 3 is a plan view of the shear plate as assembled.

Fig. 4 is a view in elevation of the rotary blade, the plane view being the same as that of Fig. 2.

Fig. 5 is a view partly in section of the rotary blade viewed at right angles to the plane of Figs. 2 and 4.

Figs. 6, 7, 8 and 9 show details of construction.

As indicated in the drawing, the shaver consists of a housing A of any suitable material, such as a plastic composition, in which is mounted a motor (not shown) adapted to rotate shaft B, a suitable switch operable by means of wheel A' being also therein.

Within the end of housing A is threaded a sleeve C of sufficient length to project a short distance from the end of the housing. This sleeve C at its outer end supports the shear plate D which as shown in Figs. 2, 3 and 9, consists of a thin metal plate having an area D2 provided with a multitude of small openings and surrounding the latter area a row of small openings D3, each being the inner end of a radial slot, the slots serving to divide the outer peripheral area into a large member of narrow fingers D4, the combined width of which, in the form shown, is slightly less than the perimeter of the perforated area.

The diameter of the circle of the openings D3 should be slightly less than the inside diameter of sleeve C so that when the plate is formed over the end of the sleeve, each of the fingers will be bent down at a point a little beyond its root.

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With the plate so formed, it may be held tightly in place over the sleeve C by means of a ring E pressed over the sleeve and fingers D3 as indicated in Fig. 2.

Adapted to coact with the plate D to provide the shaving or clipping action is a blade mounted for rotation with shaft 11. This blade consists of two identical members F and F' (see Figs. 6 and 7) of flattened U-shape, with one leg G—G' higher than the other. The upper surfaces of legs G—G' are flat and are the cutting or shearing edges.

These two blade members F—F' are placed together with the cutting portions at the two ends of the assembly and are maintained together and rotated by a saddle H passing over their horizontal portions F2 as shown in Figs. 2, 4 and 5. The saddle H is fixed, as shown in Fig. 5, to a disc I in turn fixed to one end of a short tube J and slidably carried upon the tube is a thrust member K, the ends K' of which are bent up at substantially right angles and notched as at K2. These notches K2 engage the two blade members F—F'.

Also carried by the tube J is a spring L located between the plate K and an abutment M consisting of a flat ring maintained against displacement from the tube by flaring the end of the latter.

The spring L should be of such characteristics that it is compressed somewhat when the blade members are in the saddle H and the latter is of such height that in the final assembly, the spring thrusts the blades against the plate D with a firm but not heavy pressure.

I claim:

In a dry-shaver a skin engaging shear plate comprising a central area provided with a multiplicity of openings and a surrounding portion consisting of radially extending fingers, and means for mounting said plate consisting of a cylindrical sleeve having one end engaging the under side of said plate at the perimeter of said central area and an outer cylindrical sleeve surrounding the first with said fingers bent down and held between the two sleeves.

CHRIS L. VOLZ.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
2,245,420	Volz	June 10, 1941
2,341,833	Volz	Feb. 15, 1944