H. L. MENDAL.

HAIR CUTTING MACHINE.

APPLICATION FILED MAY 3, 1920.

1,387,604. Patented Aug. 16, 1921.

Fig. 1

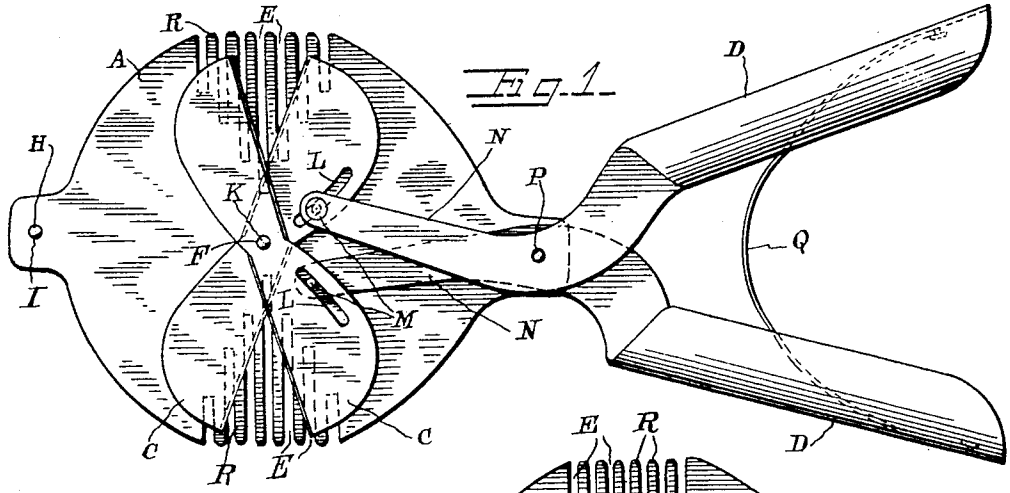


Fig. 2

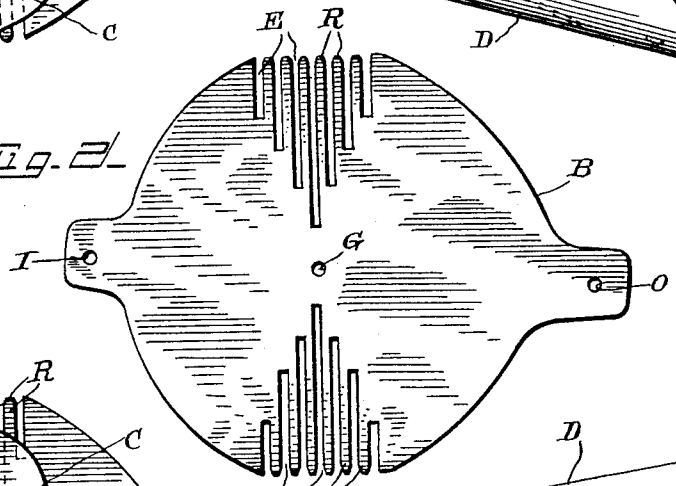


Fig. 3

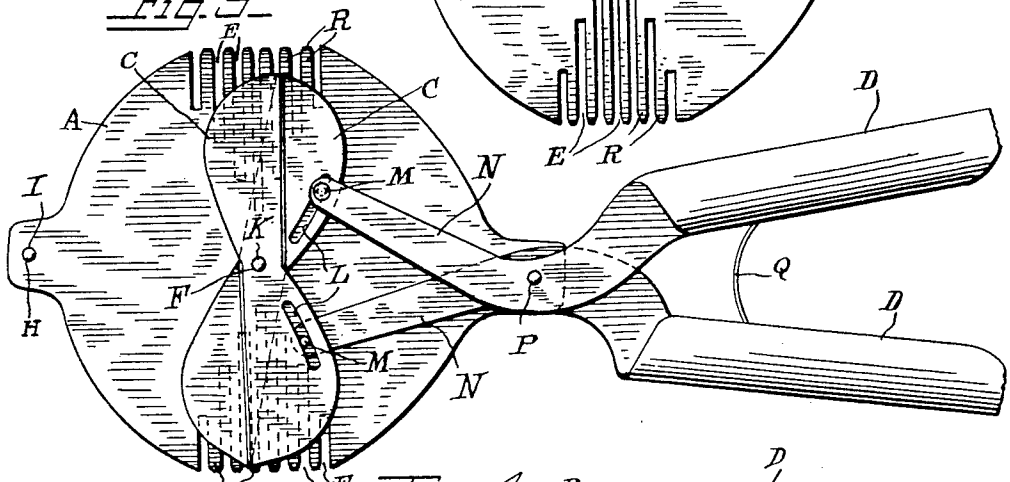
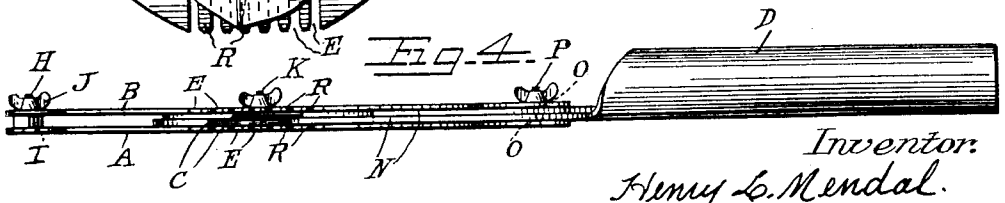


Fig. 4



Inventor:

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UNITED STATES PATENT OFFICE.

HENRY L. MENDAL, OF BALTIMORE, MARYLAND.

HAIR-CUTTING MACHINE.

1,387,604. Specification of Letters Patent. Patented Aug. 16, 1921.

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To all whom it may concern:

Be it known that I, HENRY L. MENDAL, a citizen of the United States, residing at Baltimore city and State of Maryland, have invented a new and useful Hair-Cutting Machine, of which the following is a specification.

My invention relates to improvements in hair cutting machines, in which a pair of oscillating shear blades operate in connection with a pair of lever-handles transfixed between two shields, or comb-plates, with a spring-plate adjusted between the two lever-handles, perform the operation.

The objects of my invention are to design a hair-cutting machine of this character which is provided with all the necessary parts for simple working operations, in which all the separate sections may be replaced whenever needed. One of the essential features of the invention resides in the fact that the cutting blades are so protected, no accident can ever occur by its use. I have also devised the hair-cutter to be operated either right or left handed by the individual use of the same.

The above and other objects which will become apparent and accomplished by such means as are shown in their preferred form and in the accompanying drawings, described in the following specifications, and then more specifically pointed out in the appended claims.

In the accompanying drawings, wherein like characters designate like parts throughout the several views, Figure 1. is a view of all the parts assembled, excepting the top plate. Fig. 3. is also a view of the machine with the top plate removed, showing the cutting-blades when closed. Fig. 4. represents a horizontal side view of the hair-cutter ready for use. Fig. 2. illustrates a view of one of the clipping plates (of which there are two) as these plates are identical, it is thought illustrating and describing one will suffice.

These clippers are devised to re-place the shear blades when required. As these clipping plates are adjustable to the position of the shear blades the slots in these plates are arranged to engage the pivots in the ends of the lever-handles to operate in a manner for purposes of close clipping. My invention consists of a device constructed of metal in all its parts; the whole separable, and durable.

In Figs. 1. and 3. of the drawings, A. and B. are top and bottom plates; the slitted parts of said plates E. E. are a part of the plates proper. The cutting blades C. C. are kept in position by a bolt K. passing through the apertures in both plates at G. also through the apertures F. F. in the center of each cutting blade, there being a nut on end of bolt K. to hold the parts in position.

The lever-handles D. D. are also pivoted at one side of the comb-plates A. and B. through the apertures O. O. in the plates by the bolt P.

The ends of the lever-handles N. N. are secured to the cutting blades C. C. by means of pivots M. M. said pivots passing through the slots L. L. of cutting blades C. C. thence through the apertures in the ends N. N. of the lever-handles. The spring-plate Q. is for the purpose of forcing the lever-handles apart after being pressed together; thereby setting the blades to an open position, ready for cutting.

The plates A. and B. provided with apertures at one side marked I. I. are held in position by the bolt H. with nut J. The plates A. and B. at the opposite side are held in position and secured by a bolt P. same passing through the comb-plates at O. O. also through the lever-handle apertures S. S.

In Fig. 3. of the drawings, the device is shown with the cutting blades closed by means of pressing the lever-handles D. D. together. In Fig. 4. of the drawings, the side view illustrates the machine fully assembled. It will be observed the machine is devised to operate either right or left handed without any adjustments. Both pairs of shear cutting edges operating simultaneously by the action of the lever-handles D. D.

In Fig. 2. of the drawings the teeth R. are formed by slits cut in the plates; when adjusting these plates, first remove the top plate Fig. 3. Also remove the shear-blades by detaching the pivots in ends of lever-handles M. M. then adjust the clipping blades by pivoting the apertures S. in plates to bolt K. allowing the pivots M. M. of lever-handles to enter the slots T. of clipping blades; then re-place the plate Fig. 3.

In reducing my invention to practice, the operation is as follows:—

In order to cut the hair closely, insert the teeth of the plates at the edge of the hair

on the scalp, and force the machine into the hair until the comb parts are filled; then press the lever-handles together; this operation will force the cutting blades to close, cutting the hair between the teeth of the plates. Allow the lever-handles to open; then repeat the operation until the desired result is obtained.

For shingling or clipping the ends of hair, insert the teeth of the comb-plates into the hair near the scalp, then raise the machine away from the scalp to the desired distance, keeping the hair between the teeth of both plates; then press the lever-handles together, then repeat the operation.

When cutting hair on back part of head, it is always well to stand with back to a mirror, holding a hand mirror in the free hand while using the machine. By this method the results will always be desirable.

In using the machine, always bear in mind to have the lever-handles wide apart before attempting any cutting.

Otherwise, the closed shear-blades will prevent the hair from entering between the teeth of the comb-plates.

I am well aware there have been a number of appliances designed for cutting and clipping hair. In designing this device, it being my aim to provide a hair-cutting machine of an improved form, a simple device, and especially practical in every degree; one that may be used with perfect safety by any individual; but realizing that certain conditions will necessarily vary in concurrence with the adoption of my device, I desire to emphasize the fact that minor changes in the details of construction, and in the proportion of parts, may be resorted to when required, without sacrificing any of the advantages of my invention as defined in the appended claims.

Claims:

1. In a hair cutting machine; comprising a pair of comb-plates; a pair of adjustable slotted shear blades pivoted between said comb-plates by a bolt; a pair of lever-handles transfixed between one side of the comb-plates by means of a bolt through same, said lever-handles being provided at one end of each, with a pivot; said pivots being adapted to engage the slots in said shear-blades to actuate same, said lever-handles being further provided with an adjustable spring-plate adapted to operate between the hollow sections of said lever-handles, for a purpose specified.

2. In a hair cutting device, comprising a pair of separated slitted edge plates; a pair of adjustable double cutting blades, said cutting blades being operated by a pair of lever handles with apertures in center and each end of same, said lever handles being connected and secured to and between one side of said plates, said lever handles being provided with a spring plate operating between the inner edges of said lever handles, as set forth and described.

3. In a device of the character described, comprising a plurality of adjustable, reciprocating, double cutting shear blades, to operate and function between a pair of separated slitted edge plates; a pair of adjustable lever handles adjusted to the slots in said cutting blades by means of bolts; said lever handles being transfixed to and between said plates with a bolt; said lever handles being provided with a spring plate operating between said lever handles; said lever handles arranged to operate at right angle to the position of cutting blades as specified.

4. In a hair cutting machine comprising a pair of slitted edge protection plates, a plurality of adjustable, reciprocating, double cutting shear blades, to function over the slits in said plates, a pair of adjustable lever handles adjusted to slots in said double cutting shear blades, said lever handles being connected and secured to, and between one side of said protection plates with a bolt, a spring plate operating between the inner edges of said lever handles, said lever handles arranged to operate at right angle to the position of the double cutting shear blades substantially as shown and described.

5. A pair of adjustable, reciprocating double clipping blades, said blades being provided with apertures and slots in same, a plurality of cutting teeth adapted to register with teeth in said plates, said clipping blades being adjustable to said handles, said clipping blades operating with a lateral motion at right angle to said lever handles as set forth and specified.

HENRY L. MENDAL.

Witnesses:
HENRY YEWELL BREADY,
HELEN HINES.