No. 757,359. PATENTED APR. 12, 1904.

G. F. STEVENS.

HAIR CLIPPER.

APPLICATION FILED AUG. 27, 1903.

NO MODEL.

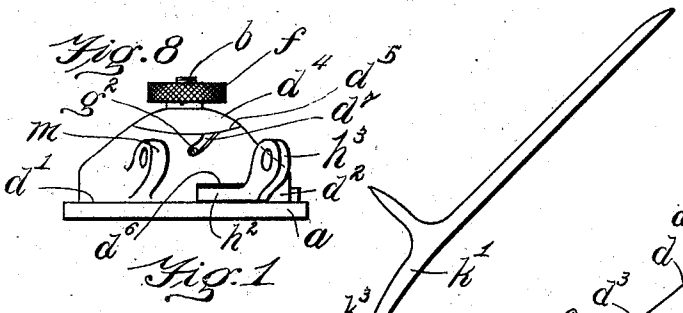


Fig. 8

Fig. 1

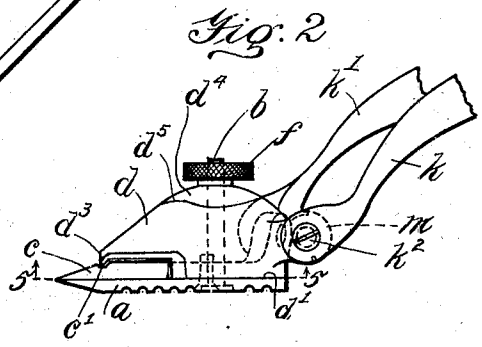


Fig. 2

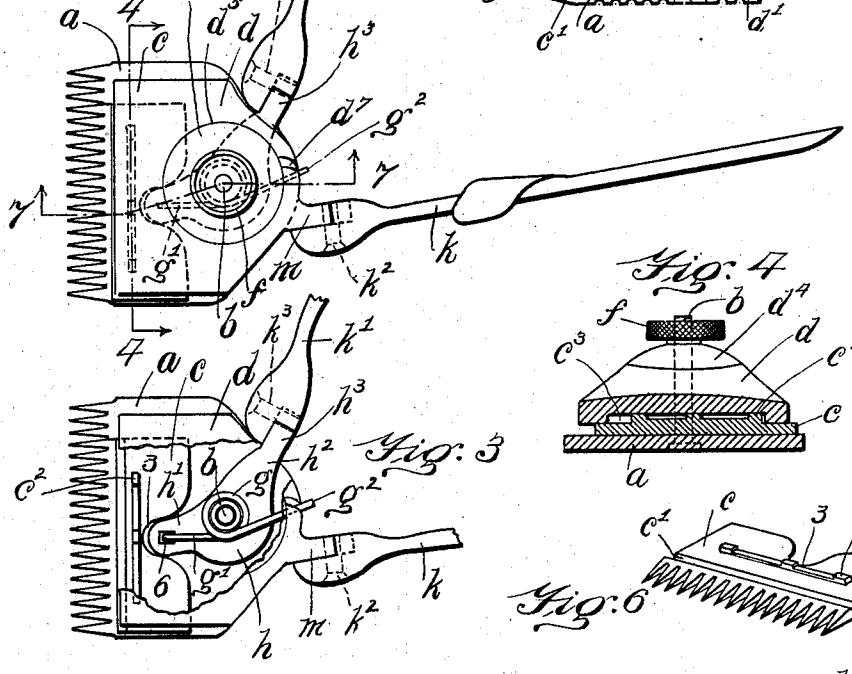


Fig. 3

Fig. 4

Fig. 6

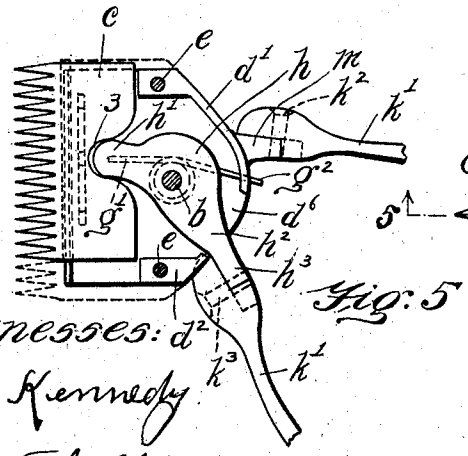


Fig. 5

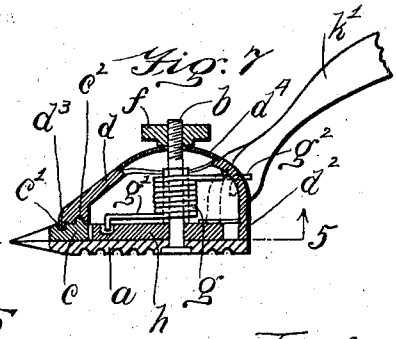


Fig. 7

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No. 757,359. Patented April 12, 1904.

UNITED STATES PATENT OFFICE.

GEORGE F. STEVENS, OF NORTHWOOD, NEW HAMPSHIRE.

HAIR-CLIPPER.

SPECIFICATION forming part of Letters Patent No. 757,359, dated April 12, 1904.

Application filed August 27, 1903. Serial No. 170,962. (No model.)

To all whom it may concern:

Be it known that I, GEORGE F. STEVENS, of Northwood, in the county of Rockingham and State of New Hampshire, have invented certain new and useful Improvements in Hair-Clippers, of which the following is a specification.

This invention relates to hair-clippers comprising a fixed lower comb-shaped cutter, a movable upper comb-shaped cutter, and a spring whereby the movable cutter is normally held at one extreme of its movement.

The invention has for its object to provide an improved construction looking to convenience and facility in the assemblage and separation of the essential parts.

The invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a top plan view of a hair-clipper embodying my invention. Fig. 2 represents a side elevation of the same. Fig. 3 represents a view similar to Fig. 1, parts being broken away. Fig. 4 represents a section on line 4 4 of Fig. 1. Fig. 5 represents a section on line 5 5, Figs. 2 and 7. Fig. 6 represents a perspective view of the movable cutter. Fig. 7 represents a section on line 7 7 of Fig. 1. Fig. 8 represents a rear elevation, the handles being removed.

The same reference characters indicate the same parts in all the figures.

In the drawings, a represents the fixed cutter or base-plate, having the usual comb-shaped cutting-teeth.

b represents a post engaged with the fixed cutter a and projecting upwardly therefrom.

c represents the movable cutter, which bears on the fixed cutter and has comb-shaped cutting-teeth coöperating in the usual manner with the teeth of the fixed cutter.

d represents a casing or housing, the rear marginal portion of which is formed to bear at d' d^2 on the rear marginal portion of the fixed cutter, the housing being secured to the fixed cutter by screws e e, Fig. 5. The forward marginal portion of the housing overhangs the movable cutter and has a guide-lip d^3, which bears on the upper side of the sliding cutter and engages a longitudinal groove c' therein. The housing forms a chamber surrounding the main portion of the post b and is provided with an opening d^5 at its upper portion, through which the post passes, said opening being closed by a removable cap d^4, which forms the top of the housing and is held in place by a nut f, engaging the threaded upper end of the post b. When the nut f and cap d^4 are removed, the interior of the housing is accessible to permit the insertion and removal of the spring g, which normally holds the movable cutter at one end of its movement. Said spring acts on the movable cutter through a lever h, which is fulcrumed on the post b. Said lever has an arm h', which engages a recess 3 in the movable cutter c, and an arm h^2, which projects through a rear opening d^6 in the rear side of the housing, said opening being formed between the portions d' d^2 of the housing that bear on the fixed cutter. The main portion of the spring is a helix surrounding the post b. One end of the spring forms an arm g', which is bent to engage a slot 6 in the lever-arm h', while the other end of the spring forms an arm g^2, engaged with a recess d^7 in the rear part of the housing d, said recess communicating with the top opening d^5 in the housing. When the cap d^4 is removed, the spring can be readily placed upon the post b in position to cause its arm g^2 to engage the recess d^7 in the housing. The arm g' can then be readily sprung into engagement with the slot in the lever-arm h', the arrangement of the parts being such that when the arms of the spring are engaged, as shown, with the housing and lever-arm the force of the spring will be exerted to hold the lever and the movable cutter in the position shown in Figs. 1, 3, 4, and 5.

k represents a handle connected by a pivot k^2 with an ear m, formed on the rear portion of the housing d. k' represents a handle connected by a pivot k^3 with an ear k^3 on the outer end of the lever-arm h^2. The pivots k^2 and k^3 are horizontally arranged, so that the handles k k' are adapted to be adjusted at different

angles relatively to the plane of the cutters, as shown in Letters Patent No. 531,811, dated January 1, 1895.

The chief advantage of the described construction is the ease and facility with which the spring *g* can be applied and removed. In removing the spring it is only necessary to remove the nut f^6 and cap d^4 and then spring the arm g^2 out of the recess d^7. The spring is thus released and may be raised from the post and from the lever-arm *h'*. When the spring is replaced, as above described, and the cap d^4 secured by the nut *f*, the cap closes the mouth of the recess d^7, so that the spring cannot be displaced.

The movable cutter *c* is preferably provided with a longitudinal rib c^2, which enters a slot c^3 in the housing *d*. The slot is longer than the rib, so that its ends constitute stops to limit the movements of the cutter *c*.

I claim—

A hair-clipper comprising a fixed bottom cutter, a movable top cutter bearing thereon, a post secured to the fixed cutter, a housing secured at its rear portion to the fixed cutter, its forward portion overhanging the movable cutter, said housing having an opening surrounding the post, a spring-receiving recess communicating with said opening, and a cap formed to cover said opening and recess, means on the post for detachably securing the cap, a lever fulcrumed on the post within the housing and engaged at one end with the movable cutter, its other end projecting from the housing, a spring surrounding the post within the housing and provided at one end with an arm engaging the lever and at the other end with an arm engaging the recess in the housing, and a pair of handles, one connected with the housing and the other with the lever.

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

GEORGE F. STEVENS.

Witnesses:

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