

(No Model.)

G. F. STEVENS.
HAIR CLIPPER.

No. 531,811.

Patented Jan. 1, 1895.

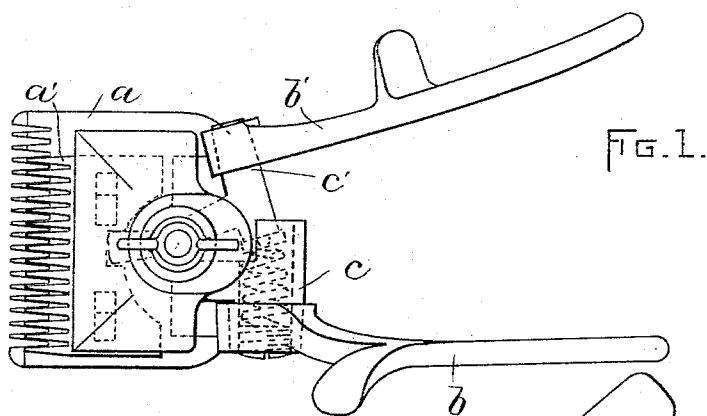


FIG. 1.

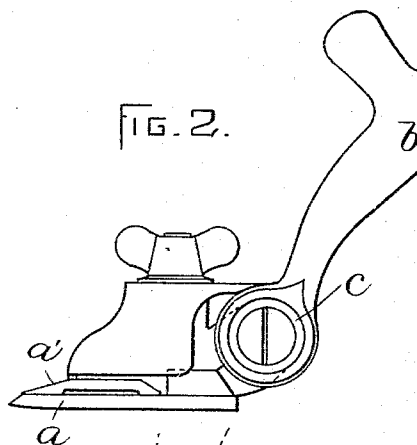


FIG. 2.

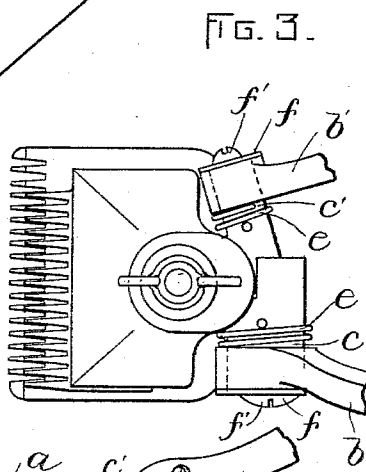


FIG. 3.

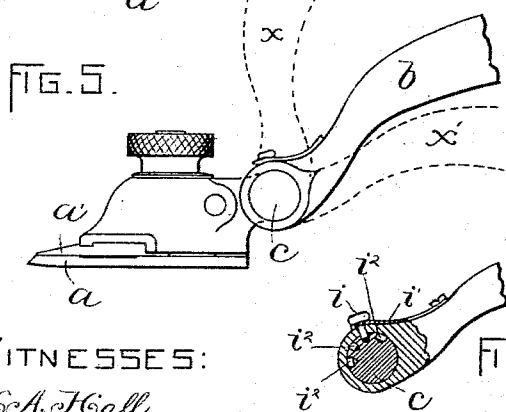


FIG. 4.

FIG. 5.

FIG. 6.

WITNESSES:

H. A. Hall.
A. D. Hanson

INVENTOR:

George F. Stevens
by Wright, Brown & Conley
Attys.

UNITED STATES PATENT OFFICE.

GEORGE F. STEVENS, OF NORTHWOOD, NEW HAMPSHIRE, ASSIGNOR OF ONE-HALF TO FRED E. STEVENS, OF HAVERHILL, MASSACHUSETTS.

HAIR-CLIPPERS.

SPECIFICATION forming part of Letters Patent No. 531,811, dated January 1, 1895.

Application filed December 4, 1893. Renewed October 18, 1894. Serial No. 526,262. (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 has for its object to provide a hair clipper in which the handles can be adjusted at any desired angle with reference to the toothed cutting plates or blades, so that the clipper can be adapted for convenient operation on various parts of the body of an animal, some parts being more conveniently reached when the handles stand in a position approximately at right angles with the plane of said blades, while other parts are more conveniently operated on when the handles stand approximately in line with the plane of said blades.

My invention consists in a hair clipper, comprising the construction substantially as hereinafter described and claimed.

Of the accompanying drawings forming a part of this specification, Figure 1 represents a top view of a hair clipper embodying my invention. Fig. 2 represents a side view of the same. Figs. 3 and 4 represent top views, showing different ways of carrying my invention into practice. Fig. 5 represents a side view of the construction shown in Fig. 4. Fig. 6 represents a section on line 6, 6, Fig. 4.

The same letters of reference indicate the same parts in all of the figures.

In the drawings—*aa'* represent the toothed plates or blades of a hair clipper, said blades having the usual comb-shaped cutting edges and being pressed together so that one is in rubbing contact with the other.

My invention has nothing to do with the construction of the blades and with the manner of connecting and operating them; but relates wholly to the hereinafter described adjustable connection of the operating handles *b b'* to the blades.

In carrying out my invention I provide the blade *a* with a cylindrical stud or bearing *c*, and the blade *b* with a cylindrical stud or bearing *c'*, said studs being formed on or attached rigidly to the blades in any suitable manner. In the handles *b b'* I form sockets

adapted to closely fit and turn upon said studs, the handles being formed as separate parts movable on the studs. The studs are so arranged that when the handles are placed upon them, said handles can swing in planes substantially at right angles with the plane of the blades, so that each handle can occupy a position approximately at a right angle with the plane of the blades, as shown at *x*, Fig. 5, or a position approximately parallel with said plane, as shown at *x'*, or in various intermediate positions more or less inclined, as shown in full lines in Figs. 2 and 5. It will be seen that this provision for the adjustment of the handles relatively to the cutting blades greatly increases the usefulness and convenience of the clipper, particularly when used for horse clipping. It is also convenient and desirable in clippers for cutting human hair.

The handles may be held by friction in any position to which they may be adjusted, or, if preferred, by positive means. When the studs *c c'* are slightly tapered, as shown in Figs. 1 and 4 (the sockets in the handles being correspondingly tapered), a sufficiently firm connection can be secured by friction alone. The same result may be attained without tapering studs, by providing springs *e e* (Fig. 3) arranged to press the handles outwardly against washers *f f*, secured by screws *f' f'* to the studs.

In Figs. 2, 4, 5 and 6, I show the handles provided with locking pins *i* pressed by springs *i'* into engagement with holes *i''* in the studs, there being a series of said holes, so that the handles may be locked in several positions.

Various other modifications may be employed without departing from the spirit of my invention, which is not limited to the details here shown.

I claim—

1. In a hair clipper, the combination with two toothed plates or blades one movable upon the other and having studs or bearings the axes of which are substantially parallel with the front edges of said toothed plates, of handles mounted on said studs or bearings, and means for holding the handles in varying positions ranging from a substantially straight line with the plane of the blades to

an approximately right angular position relatively thereto.

2. In a hair clipper, the combination with two toothed plates or blades one movable upon the other and a cylindrical stud or bearing carried by each of said blades and having its axis substantially parallel with the front edge or line of the teeth, of handles having sockets fitting said studs and adapted to stand thereon at different inclinations relatively to the blades, and means for holding the handles in their adjusted positions.

3. In a hair clipper, the combination with two toothed plates or blades, one movable upon the other, and handles for operating said blades, of means for frictionally holding the handles in varying positions relatively to the

blades ranging from a substantially straight line with the plane of the blades to an approximately right angular position relatively thereto, said means including hinge-members on the blades the axes of which are substantially parallel with said toothed plates and hinge-members on the handles engaged with the members on the blades.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 29th day of November, A. D. 1893.

GEORGE F. STEVENS.

Witnesses:

FRED E. STEVENS,

JAMES W. GOODWIN.