

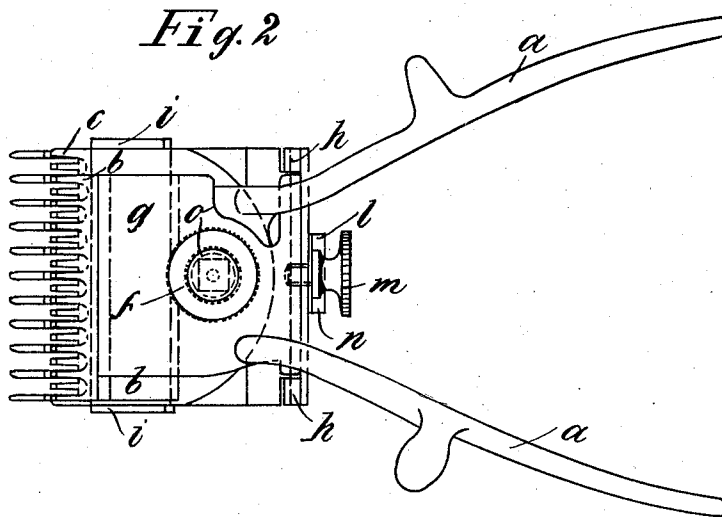
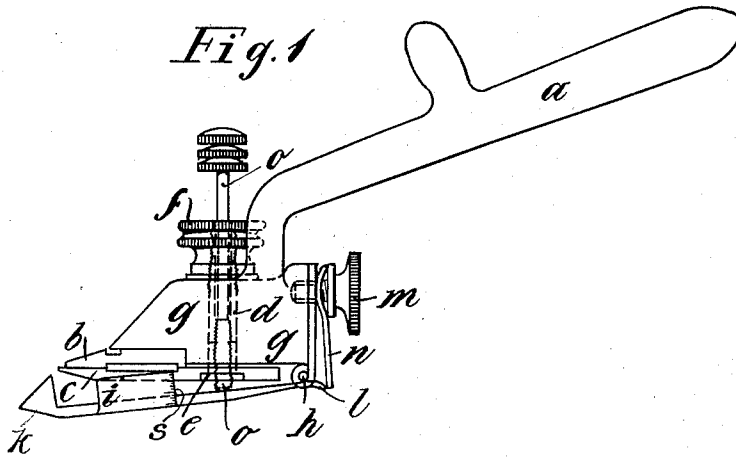
No. 850,656.

PATENTED APR. 16, 1907.

R. KLEIN.

DEVICE FOR ADJUSTING THE HEIGHT OF THE CUT IN HAIR CLIPPING
MACHINES.

APPLICATION FILED OCT. 22, 1906.



Witnesses:

Geo. Klein
G. M. Cohenbauer

Inventor:
Robert Klein
per G. Dittman
Attorney.

UNITED STATES PATENT OFFICE.

ROBERT KLEIN, OF SOLINGEN, GERMANY.

DEVICE FOR ADJUSTING THE HEIGHT OF THE CUT IN HAIR-CLIPPING MACHINES.

No. 850,656.

Specification of Letters Patent.

Patented April 16, 1907.

Application filed October 22, 1906. Serial No. 340,032.

To all whom it may concern:

Be it known that I, ROBERT KLEIN, a subject of the King of Prussia, German Emperor, residing at Solingen, in the Province of the Rhine, Kingdom of Prussia, German Empire, have invented certain new and useful Devices for Adjusting the Height of the Cut in Hair-Clipping Machines, of which the following is a specification.

The present invention relates to a new, simple, and reliable device for adjusting the height of the cut in hair-clipping machines, which device possesses various advantages over the devices for this purpose which are already known.

Referring to the accompanying drawings, Figure 1 shows a side view, and Fig. 2 a plan view, of the apparatus.

In the drawings the apparatus is shown attached to a clipper of the usual construction, comprising two blades *b c*, provided with cutting edges in the form of a comb and operated by means of the handles *a a*. The lower blade *c* is connected, by means of a bolt *d* with the head *e* and milled nut *f*, firmly with the casing *g*. Through the hollow bolt *d* and the nut *f* there passes in the well-known manner the set-screw *o*, which serves for the adjustment of the cutters. The new adjusting device consists of the comb *k* of usual form, provided with the side laps *i*, which swings on the hinge *h* and has the heel-piece *l*, against which the spring *n*, adjustable by means of the nut *m* on the casing, is pressed.

The new device is used as follows: In order to obtain a greater height of cut, (a greater length of the hair,) the set-screw *o* is screwed down. This causes the metal screw to push the comb *k* from the cutting-surface formed by the plane of contact of the two cutter-blades *b c*, overcoming the resistance of the spring *n* acting in the opposed direction. In order to diminish the height of cut, the set-screw is turned in the opposite direction. This then draws back and the comb *k* follows it under the impulse of the spring *n*, pressed against the heel-piece *l*. On the side laps *i* of the comb *k* there can be a scale *s* marked, which will indicate the height of the cut. The edge of one of the cutter-blades may serve as the index-line, or this

may be provided for in any other suitable way. By means of the disk, serving to secure the hinge, and the screw *m*, serving to regulate the spring *n*, the spring-pressure can be varied and adjusted elastically if the part of the spring lying under the head of the screw be arched or curved.

The main advantage of the above-described construction consists in the simplicity of the adjustment of the cutter height, which itself during the slight cutting and against the slight resistance can be adjusted by means of the set-screw by the fingers of the hand holding the hair-clipper. This advantage is particularly important when during the hair-cutting it is desired to increase gradually from a very small height of cut to a greater one, so as to avoid clipping in steps. In all machines hitherto constructed this was impossible without removing the machine, as the adjustment was too difficult to be able to be accomplished without the aid of both hands. Moreover, it is extremely easy to cleanse the cutters and the comb of a machine constructed as above described, because for this purpose it suffices to fold over the comb on the hinge. Finally, the machine is considerably cheapened through the simplicity of its construction.

Having now particularly described my said invention, I declare that what I claim is—

1. In a machine for cutting hair, the combination with the cutting-blades, of a comb acting in conjunction therewith, and pivotally mounted at one end and having a heel-piece, a spring acting on said heel-piece, and means connected with said comb between its pivot and its free end for adjusting said comb.

2. In a machine for cutting hair, the combination with the cutting-blades, of a comb acting in conjunction therewith, and pivotally mounted at one end and having a heel-piece, a spring acting on said heel-piece, and means connected with said comb between its pivot and its free end for adjusting said comb, and means for adjusting the tension of said spring.

3. In a machine for cutting hair, the combination with the cutting-blades, of a comb acting in conjunction therewith, and pivot-

ally mounted at one end and having a heel-piece, a spring acting on said heel-piece, and means connected with said comb between its pivot and its free end for adjusting said
5 comb, and means for adjusting the tension of said spring, said comb having side laps adjacent said cutting-blades.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROBERT KLEIN.

Witnesses:

BESSIE F. DUNLAP,
LOUIS VANDORN.