

C. H. REDMAN.

CLIPPER.

APPLICATION FILED MAR. 17, 1909.

1,015,399.

Patented Jan. 23, 1912.

2 SHEETS—SHEET 1.

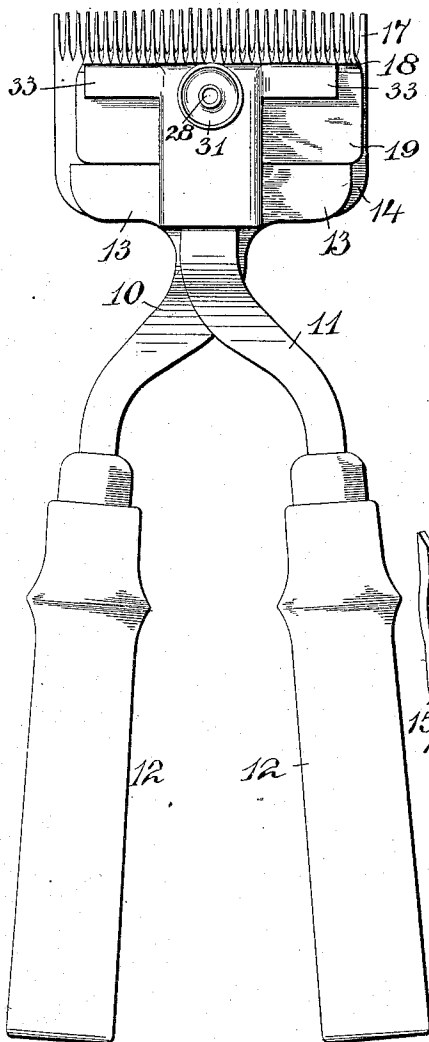


Fig. 1

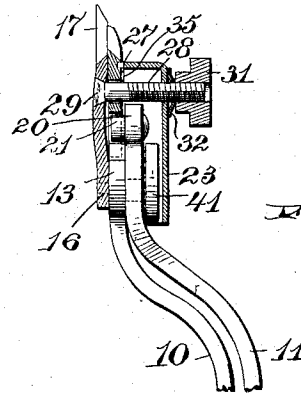


Fig. 2

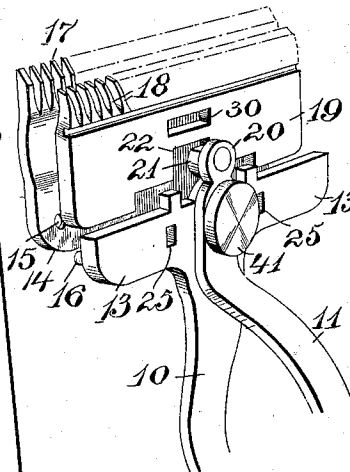


Fig. 3

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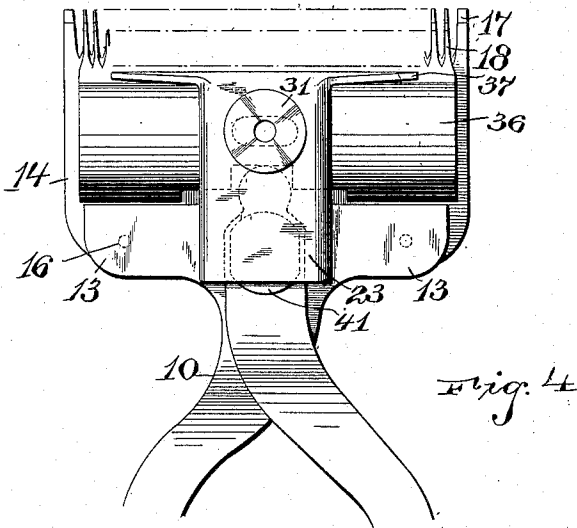


Fig. 4

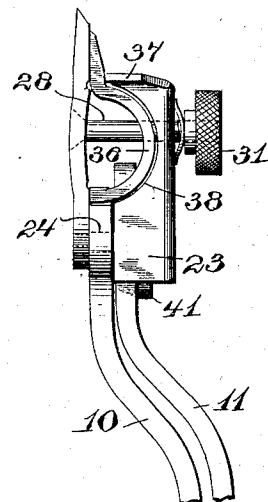


Fig. 5

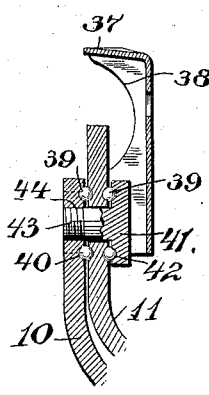


Fig. 6

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UNITED STATES PATENT OFFICE.

CHARLES H. REDMAN, OF NEWARK, NEW JERSEY.

CLIPPER.

1,015,399.

Specification of Letters Patent.

Patented Jan. 23, 1912.

Application filed March 17, 1909. Serial No. 484,041.

To all whom it may concern:

Be it known that I, CHARLES H. REDMAN, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Clippers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

This invention relates to a clipper, and is designed to provide a device of this kind that has a pair of levers with handles attached thereto, these levers being permanently attached together, and two blades, one stationary, and one sliding on the stationary blade, are mounted on the handles, these blades being slid on each other when the handles are worked, and a back plate is provided to cover the pivot of the levers and to be attached to one of them, and having adjustable means thereon passing through the blades and through itself so that the pressure of the blades, one on the other, can be adjusted and at the same time the whole device held together. The advantage of this construction is that when the clipper is taken apart, the two blades can be removed, and the levers and the handles are held together, and in this way the assembling and taking apart of the members is an easy operation.

The invention is further designed to provide a joint for the levers which is easy in its operation, due to ball-bearings supplied thereto, and the front plate is also provided, in one of the constructions, with a ball-retainer that bears on the sliding blade and thus causes an easy operation.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a front view of an improved clipper, and Fig. 2 is a section through the center of Fig. 1, showing the levers in elevation. Fig. 3 is a perspective view of the portions of the clipper separated slightly to show that construction to better advantage. Fig. 4 is a face view of a clipper of a modified form of construction. Fig. 5 is a side view of Fig. 4, and Fig. 6 is a section through the pivot of the levers in the back plate.

The device consists of a pair of levers 10 and 11, each of which is provided with a handle portion 12, and these levers 10 and 11 are in pivotal relation, this pivotal joint being described hereinafter. One of the levers, as 10, has ears 13 projecting on opposite sides and forming bearings against which a blade 14 rests, the blade 14 having perforations 15, one being arranged near each end thereof, these perforations fitting the pins 16 on the back of the ears 13. The blade 14 is provided with teeth 17 against which slide the teeth 18 of a blade 19, which blade is adapted to slide on the blade 14, which is the ordinary action of clippers of this kind, and thus have a shearing action on the hair and serving to cut the same. The lever 11 has an extension 20 with a pin 21 thereon which fits in a slot 22, and when the levers are operated by means of their handles, the pin 21 forces the blade 19 back and forth on the blade 14. The back plate 23 has fingers 24, these fingers fitting into the slots 25 in the ears 13 on the lever 10, these ears 24 projecting out from the sides 26 of the back plate 23, and this back plate has a top portion 27 whose edge is adapted to fit against the blade 19 as shown in Fig. 2. The fit between the fingers 24 and the slots 25 is tight enough to normally hold the back plate in position on the ears.

A bolt 28 has a square head 29, which head is preferably countersunk and rests in the plate 14, the bolt having a screw-threaded portion passing through a slot 30 in the blade 14 and passing through a perforation in the back plate. A nut 31 is screwed down on the bolt 28 so as to pull the back plate and the two blades together, and thus vary the tension or pressure on the blades to suit the operator. A spring washer 32 is preferably placed between the nut and the back plate. The back plate is provided with the wings 33 extending on each side thereof, thereby giving the edge 27 a longer bearing on the blade 14, and I can, if desired, place a retainer 34 under the wings 33 to retain the balls 35, which balls are adapted to lessen the friction between the back plate and the sliding blade as shown in Figs. 2 and 3.

Another form of device is shown in Figs. 4 and 5 where I prefer to supply the sliding blade 14 with the half round portion 36 for the purpose of strengthening the device, and also for giving room for the cut

hair to pass into to prevent its clogging the blades. In this construction I supply the back plate 23 with the wings 37 extending on each side thereof, and being adapted to fit
 5 on the top of the grooved portion 36, and I also supply the back plate with cut away portions 38 to receive the rounded portion 36. In this construction the fingers 24 are utilized, as in the previous construction, to
 10 bind the back plate on the ears 13. In the joint, as shown in Fig. 6, I supply the lever 11 with annular ball-retaining grooves into which are seated the balls 39. The opposed face of the lever 10 is provided similarly
 15 with ball-retaining grooves 40, and the head 41 is provided with retaining grooves 42 and has a screw-threaded stem 43 which fits into the screw-threaded perforation 44 of the lever 10, and thus a bearing is supplied that is
 20 easy working. Another advantage of this bearing is that it is wide, in other words, an operator using a pair of clippers and working the handles is apt to give them a twisting motion, and the bearing of these
 25 balls, at a distance from the pivot, gives a bearing at a number of points outside the pivot that prevents any locking of the levers, one on the other, and holds them in line when being worked, as hereinbefore pointed
 30 out. One of the advantages of this device is that when the blades are to be taken off, the nut 31 is loosened and the bolt 28 and the blades 14 and 19 can be moved together, and the back plate and the levers remain in
 35 their assembled position, and it is not necessary to separate them unless desired, and

thus the assembling and separation of the parts is facilitated. It also provides a ready means for regulating the pressure on the blades.

Having thus described my invention, what I claim is:—

A clipper comprising a pair of levers having handles thereon, ears on the first lever extending from side to side, a blade fixed to the first lever beneath the ears, a sliding blade having its back edge resting on the ears of the first lever and lying adjacent to the fixed blade and sliding thereon, the back edge of the sliding blade adjacent to the ears having a slot therein which co-acts with the ears to limit the sliding movement of the sliding blade, a pin on the second lever arranged to enter the central portion of the slot in the sliding blade to slide the blade when the levers are operated, a back plate bearing on the sliding blade, a bolt secured in the fixed blade, the sliding blade being slotted to receive the bolt, the bolt also passing through the back plate, a nut on the bolt for regulating the pressure against the back plate, the back plate having sides bearing on the ears, and ears on the back plate, the ears on the first lever being slotted to receive the ears of the back plate.

In testimony, that I claim the foregoing, I have hereunto set my hand this 2nd day of March, 1909.

CHARLES H. REDMAN.

Witnesses:

WM. H. CAMFIELD,
E. A. PELL.